FOR CONTRACT NO. 07-1170U4
PROJECT NO. 0700000085

INFORMATION HANDOUT

MATERIALS INFORMATION

Division of Occupational Safety and Health Administration - Underground Classification

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ROUTE: 07-LA-10 33.2/37.2

REVISED PER ADDENDUM No. 3 DATED DECEMBER 3, 2013

FOR CONTRACT NO. 07-1170U4
PROJECT NO. 0700000085

INFORMATION HANDOUT

Division of Occupational Safety and Health Administration - Underground Classification

ROUTE: 07-LA-10 33.2/37.2

STATE OF CALIFORNIA
EDMUND G. BROWN, JR., *Governor*
DEPARTMENT OF INDUSTRIAL RELATIONS
DIVISION OF OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
MINING AND TUNNELING UNIT
6150 VAN NUYS BOULEVARD, SUITE 310
VAN NUYS, CA 91401-3333
(818) 901-5420 FAX (818) 901-5579

September 27, 2012

California Department of Transportation
100 Main Street
Los Angeles, CA 90012-3606

Attention: Nader Gobran, P.E.

Subject: Underground Classification Number: C027-037-13T – Revision # 1
Interstate 10 Widening Project – West Covina

Dear Mr. Gobran,

Enclosed is a revised Underground Classification for the above referenced project. Please provide a copy of the Classification to the Contractor and insure that a copy of the Classification is posted at the job site.

Please remind the Contractor to notify this office to schedule the mandated Pre-Job Safety Conference with the Division prior to commencing any activity associated with the project.

Also, be advised that, whenever an employee enters any bore or shaft being constructed under 30-inches in diameter, the Mining and Tunneling Unit then has immediate jurisdiction over that job. Please contact us prior to entering such spaces.

If you have any questions, please contact this office.

Sincerely,

James Wittry
District Manager

c: file

State of California

Department of Industrial Relations

DIVISION OF OCCUPATIONAL SAFETY AND HEALTH
MINING AND TUNNELING UNIT

C027-037-13T
Revision 1

Van Nuys Office R5D2

Underground Classification

Various Structures: Cast-in-Drilled-Hole (CIDH) Piles @ Interstate 10 Widening Project PM 33.2 / 37.2
California Department of Transportation
(NAME OF TUNNEL OR MINE AND COMPANY NAME)

of **California Department of Transportation - District 7**
100 Main Street Los Angeles, CA 90012-3606
(MAILING ADDRESS)

at **Interstate 10 in the vicinity of Puente Avenue, Balwin Park and West Covina, California**
(LOCATION)

has been classified as *****POTENTIALLY GASSY*****
(CLASSIFICATION)

as required by the California Labor Code Section 7955.

The Division shall be notified if sufficient quantities of flammable gas or vapors have been encountered underground. Classifications are based on the California Labor Code Part 9, Tunnel Safety Orders and Mine Safety Orders.

Various Structures: 60 inch diameter CIDH piles along east bound Interstate 10 at stations *1758+00*, 1772+50, 1792+00, 1803+00, 1823+65, 1841+00, 1857+40, 1892+00, 1898+90, 1914+50 and 1945+00 in the City of West Covina.

Various Structures: 60 inch diameter CIDH piles along west bound Interstate 10 at stations 1768+50, 1774+90, 1799+00, 1815+68, 1823+25, 1832+10, 1842+45, 1851+50, 1867+50, 1880+00, 1898+00, 1914+00, 1937+00 and 1952+00 in the City of West Covina.

Various Structures: 60 inch diameter CIDH piles in the Interstate 10 median at stations 1809+50, 1822+80, 1916+50 and 1928+62 in the City of West Covina.

Revised: 9/27/12

Date September 12, 2012

Reference: 1) Submital from Caltrans District 7 Design received 8/31/12 *.
2) Log of Test Borings by Caltrans dated 10/14/11.

* Information provided by Caltrans Engineer: Mohamed Ghannoum

(District Manager)

FOR CONTRACT NO. 07-1170U4
PROJECT NO. 0700000085

INFORMATION HANDOUT

Foundation Report-Puente Avenue UC

ROUTE: 07-LA-10 33.2/37.2

State of California **Business, Transportation and Housing Agency**

M e m o r a n d u m

To: MR. Howard Ng – Branch Chief
Bridge Design Branch 20

Date: December 9, 2011

File No. 07-LA-10-PM 33.4/33.4
EA 07-1170U1
Puente Ave UC (Widen)
Br. # 53-0666

Attn.: Mr. Jason Fang
Project Engineer

From: **DEPARTMENT OF TRANSPORTATION**
DIVISION OF ENGINEERING SERVICES
Geotechnical Services
Office of Geotechnical Design South-1

Subject: Foundation Report – Puente Avenue UC

PROJECT DESCRIPTION

The Route 10 (San Bernardino) Freeway is an eight lane freeway connecting the Los Angeles and San Bernardino County. The proposed project at PM 33.35/37.1 is to widen the freeway and strip and re-pave the existing lanes in both directions from Puente Avenue UC in the City of Baldwin Park to the Hollenbeck Avenue in the City of West Covina. A 12 feet wide median High Occupancy Vehicle (HOV) lane will be added in each direction of the freeway. The freeway will also be widened along the outside to maintain four standard traffic lanes in each direction. The overall project includes widening the following seven (7) bridges, Puente Avenue Undercrossing (Bridge No. 53-666), Cameron Avenue Undercrossing (Bridge No. 53-667), West Covina Parkway Undercrossing Bridge No. 53-2372), Vincent Avenue Undercrossing (Bridge No. 53-1043),Lark Ellen Avenue Undercrossing (Bridge No. 53-2270), Azusa Avenue Separation (Bridge No. 53-669); and Hollenbeck Avenue Undercrossing (Bridge No. 53-2271), and two new above-ground ramp structures.

The widening of existing Puente Avenue UC Bridge in each direction (eastbound and westbound) and constructing of soundwall on westbound are part of the proposed project (Appendix I). This single span, CIP/PS box girder, bridge was built in 1956 and widened in 1975. The proposed widening structure will be steel girder. The widths of the new structure will vary from 14.39 to 14.43 ft in eastbound and from 15.56 to 16.28 ft in westbound, respectively. The new soundwall will be approximately 10 feet in height.

SCOPE OF WORK

Our scope of services for this geotechnical evaluation includes the following:

- Review of available existing As-Built plans, drawings, and preliminary geotechnical reports pertinent to the subject site;
- Review of available published historical levels of groundwater table;
- Subsurface exploration program consisting of two boreholes drilled to a depth of approximately 110 feet;
- Selection of and performing of appropriate laboratory tests;
- Evaluation of the geotechnical data obtained from the above items, selection of geotechnical design parameters, and engineering analyses performed to assess the potential for liquefaction and others geological/geotechnical hazards at the subject site; and
- Preparation of this report describing the results of the field investigation, laboratory testing and engineering analyses, and providing appropriate conclusions and recommendations for the design and construction of foundations for the proposed structures.

This foundation report supercedes the preliminary foundation report for addition of high occupancy vehicle lanes (HOV) on Route Interstate 10 from Puente Avenue to Citrus Avenue, Los Angeles County, California, prepared by AESCO, Inc., dated August 28, 2002.

FIELD INVESTIGATION AND TESTING PROGRAM

Previous Site Investigation

The Log Of Test Borings (LOTBs) from the previous subsurface exploration are provided as a part of the ”As-Built” plans, dated January, 1952 for the Puente Avenue UC bridge project. Based on the “As-Built” LOTB, four borings were drilled below existing ground surface to depths of approximately 35 to 45 feet. The drilled method was unavailable from the “As-Built” LOTB.

Current Field Program

Subsurface exploration was performed from April 7 to 8, 2009 and consisted of advancing two boreholes to a maximum depth of approximately 110 feet below the

existing grade. The boreholes were advanced using a truck-mounted CME-75 drill rig fitted with hollow stem augers.

The locations of the boreholes are shown on LOTBs. The logs of the boreholes together with the explanation of terms and symbols used are also presented on LOTBs.

Field testing consisted of the Standard Penetration Test (SPT). Sampling consisted of collection of samples from the SPT split spoon sampler. The SPT split spoon sampler, two inches outside diameter and 1 3/8 inches inside diameter, is driven 18 inches into undisturbed soils and the number of blows required to drive the sampler the last 12 inches is recorded as the "N" value or SPT blow count. The driving energy is provided by a 140 pound hammer dropping 30 inches.

LABORATORY TESTING PROGRAM

The samples obtained during the subsurface exploration were assigned to the laboratory for visual examination and testing. The soils were classified in accordance with Soil and Rock Logging, Classification, and Presentation Manual, Caltrans June 2007.

The laboratory testing program consisted of corrosivity series tests (minimum resistivity, pH, sulfate, and chlorides) on composite soil samples. The laboratory test results are presented in the section of Corrosion Evaluation of this report.

SITE GEOLOGY AND SUBSURFACE CONDITIONS

Physiography

The project site is located within the San Gabriel Valley, in Southern California, which is a broad, relatively flat to slightly sloping basin filled with Tertiary (65 million years) or younger sediments derived from surrounding hills and mountains. According to the United States Geological Survey's topographic map of the Baldwin Park 7.5-minute quadrangle, ground elevation between Vincent Avenue UC and Citrus Avenue UC varies from approximately 400 to 520 feet above Mean Sea Level (MSL). The general site area is sloping approximately 0.01% to the southwest.

The San Gabriel Valley is bounded on the north by the San Gabriel Mountains which rise to greater than 10,000 feet above MSL. South of the San Gabriel Valley, the Repetto Hills, Merced Hills, Puente Hills and San Jose Hills rise about 500 feet from the valley floor to separate the valley from the coastal plain. These hills bound the valley on the west, south and east.

Site Geology

The Site is underlain by artificial fill which may overly undifferentiated Quaternary young alluvial-fan deposits consisting of gravel, sand, silt and clay.

For this report, we reviewed the State of California, Department of Water Resources', Bulletin 104-2, Planned Utilization of Groundwater Basins, San Gabriel Valley, Appendix A: Geohydrology. Based on Plate 9A and Plate 10, cross section Z of that report, the Quaternary deposits may be as deep as 1500 feet thick through the center of the valley and approximately 500 feet in thickness through the project site.

Subsurface Conditions

The soils encountered at the project site during current subsurface exploration generally confirmed the soil conditions described on the "As-Built" LOTB, Drawing No. C-3209-13, dated January, 1952. The generalized stratigraphic profile at the borehole locations consisted of sand overlying sand with silt and gravel. The blow counts from the current drilling indicate that the sandy layer is generally medium dense and the underlying layer of sand with silt and gravel are generally very dense at the borehole locations.

Ground water was not encountered within the borings drilled during the current subsurface exploration. Therefore, installation of piezometers or monitoring wells to monitor groundwater was not necessary at this site.

CORROSION EVALUATION

Minimum resistivity, pH, chloride, and water soluble sulfate tests were conducted on one composite sample and the results are summarized in the table below. Based on Caltrans Corrosion Guidelines, version 1.0, September 2003, the test results indicate that the subsoils at this site are considered non-corrosive.

Soil Corrosion Test Summary

Location	SIC Number	Minimum Resistivity (Ohm-Cm)	pH	Chloride Content (ppm)	Sulfate Content (ppm)
A-09-001 A-09-002	C702314	14983	6.6	N/A	N/A

Note: Caltrans currently considers a site to be corrosive to foundation elements if one or more of the following conditions exist: Chloride concentration is greater than or equal to 500 ppm, sulfate concentration is greater than or equal to 2000 ppm, or the pH is 5.5.or less. It is the practice of Caltrans Corrosion Technology Section (with the exception of MSE Walls) if the minimum resistivity of the sample is greater than 1000 ohm-cm and the pH is greater than 5.5, the sample is considered to be noncorrosive.

SEISMIC RECOMMENDATIONS

Seismicity

The proposed bridge widening site is located within a seismically active region of Southern California, and close to a number of faults that are considered to be active for the purpose of bridge design. Based on the subsurface conditions, a Soil Profile Type "D" with an average shear wave velocity (V_{s30}) of 353 m/sec (1,158 ft/sec) for the upper 100 feet (or 30 m) is considered appropriate for the purpose of design ground motion evaluation .

Based on the Caltrans ARS Online Tool (2009), the proposed improvements are located about ten (10) miles north of the Puente Hills Blind Thrust. This fault, nearest from the site, is capable of generating a maximum earthquake (M_{max}) of moment magnitude 7.5. The design or the median peak ground acceleration (PGA) for this site is approximately 0.6g. Other nearby seismic sources, including the Elsinore Fault Zone (Whittier Section), are expected to generate lower ground motions than those presented herein for the Puente Hills Blind Thrust fault. The recommended design Acceleration Response Spectrum (ARS) curve is presented in Appendix II.

Soil Liquefaction

Soil liquefaction is a phenomenon in which saturated loose to medium dense, predominantly granular soils lose most, if not all, of shear strength and stiffness due to the development of excess pore pressure when subjected to ground shaking.

Effects of liquefaction on ground surface include foundation settlement and reduction in bearing capacity, sand boils, and ground settlement and lateral spreading.

According to the map of the Seismic Hazard Zones of Baldwin Quadrangle released on March 25, 1999, the project site is situated within areas delineated as liquefaction zone. The historical highest groundwater measured by Los Angeles public Work is at an elevation of 286.3 feet above mean sea level (i.e. 44 feet below existing ground surface). Therefore, liquefaction analysis is considered necessary.

Based on the above depth to the historically highest groundwater table at the site and the presence of generally dense to very dense soil below this depth, the project site is not considered susceptible to soil liquefaction during seismic events.

Seismically Induced Ground Settlement

In the absence of soil liquefaction, seismically induced ground settlement at the site, if any, should be small and negligible.

AS-BUILT FOUNDATION DATA

Based on the As-Built foundation plans (1954 and 1975), the existing foundation type of the abutments is spread footing with bottom elevations of 324 ft Mean Sea Level (MSL). An allowable bearing capacity of four ton square foot (tsf) was used for footing structural design. The design footing pressure for bridge widening (1975) was two and half tsf. The dimensions, bottom of footing elevation, and allowable bearing pressure of the existing footings are summarized in the following table (AESCO, August, 2002).

Foundation Plan for Puente Avenue Undercrossing Widening (1975)

Location	Footing Type & Dimensions m (ft)	Allowable Bearing Pressure kN/m^2 (tsf)	Bottom of Footing Elevation m (ft; MSL)
Abutment 1 (North Side widening)	Spread Footing 6.4 (21)L x 3.66 (12)W	383.04 (4.0)	98.76 (324.0)
Abutment 1 (South Side idening)	Spread Footing 6.86 (22.5)L x 3.66 (12)W	383.04 (4.0)	98.76 (324.0)
Abutment 2 (North Side Widening)	Spread Footing 6.37 (20.9)L x 3.66 (12)W	383.04 (4.0)	98.76 (324.0)
Abutment 2 (South Side Widening)	Spread Footing 11.13 (36.5)L x 3.66 (12)W	383.04 (4.0)	98.76 (324.0)

GEOTECHNICAL RECOMMENDATIONS

Footing Type

Shallow foundations consisting of spread footings may be used to support the new abutments. The footings should be embedded at least five feet below the lowest adjacent grade, and be based into the native, dense granular materials.

Soil Bearing Pressure

Spread footings may be designed for an allowable dead-plus-live load bearing pressure of eight kips per square feet (ksf). The minimum edge pressures induced by eccentric loading or overturning moments should not be allowed to exceed the above mentioned allowable bearing capacity. The allowable bearing capacity is estimated based on

footings are constructed on a properly prepared subgrade and a total settlement of two inches.

The dimensions, bottom of footing elevations, minimum footing embedment depths, and allowable soil bearing capacities are summarized in the table below.

Spread Footing Data Table

Support Location	Footing Size (ft)		Bottom of Footing Elevation (ft)	Minimum Footing Embedment Depth (ft)	WSD	
	B	L			Permissible Gross Contact Stress (ksf)	Allowable Gross Bearing Capacity (ksf)
Abut 1	EB & WB: 15	EB: 26 WB: 29	EB & WB: 324.87	5.0	7.2	8.0
Abut 2	EB & WB: 15	EB: 26 WB: 29	EB & WB: 324.78	5.0	7.2	8.0

Note: EB: East Bound, WB: West Bound

CONSTRUCTION CONSIDERATIONS

Footing Observations

All foundation excavations should be observed by the geotechnical engineer prior to the placement of forms, reinforcement, or concrete, for verification of conformance with the intent of these recommendations. All excavations should be trimmed neat, level, and square. All loose or unsuitable materials should be removed prior to the placement of concrete.

APPENDICES

Appendix I: Site Map
Appendix II: ARS Curve

If you have any questions or comments, please contact Hung Po Yang (916) 227-4534.

Hung Po Yang, P.E.
Transportation Engineer–Civil
Branch A

Cc: Zareh Shahbazian, PM
Shira Rajendra, GS Corporate
Structure Construction R.E. Pending File
DES Office Engineer, Office of PS&E
Kristen Stahl, DME

Appendix I

Site Map

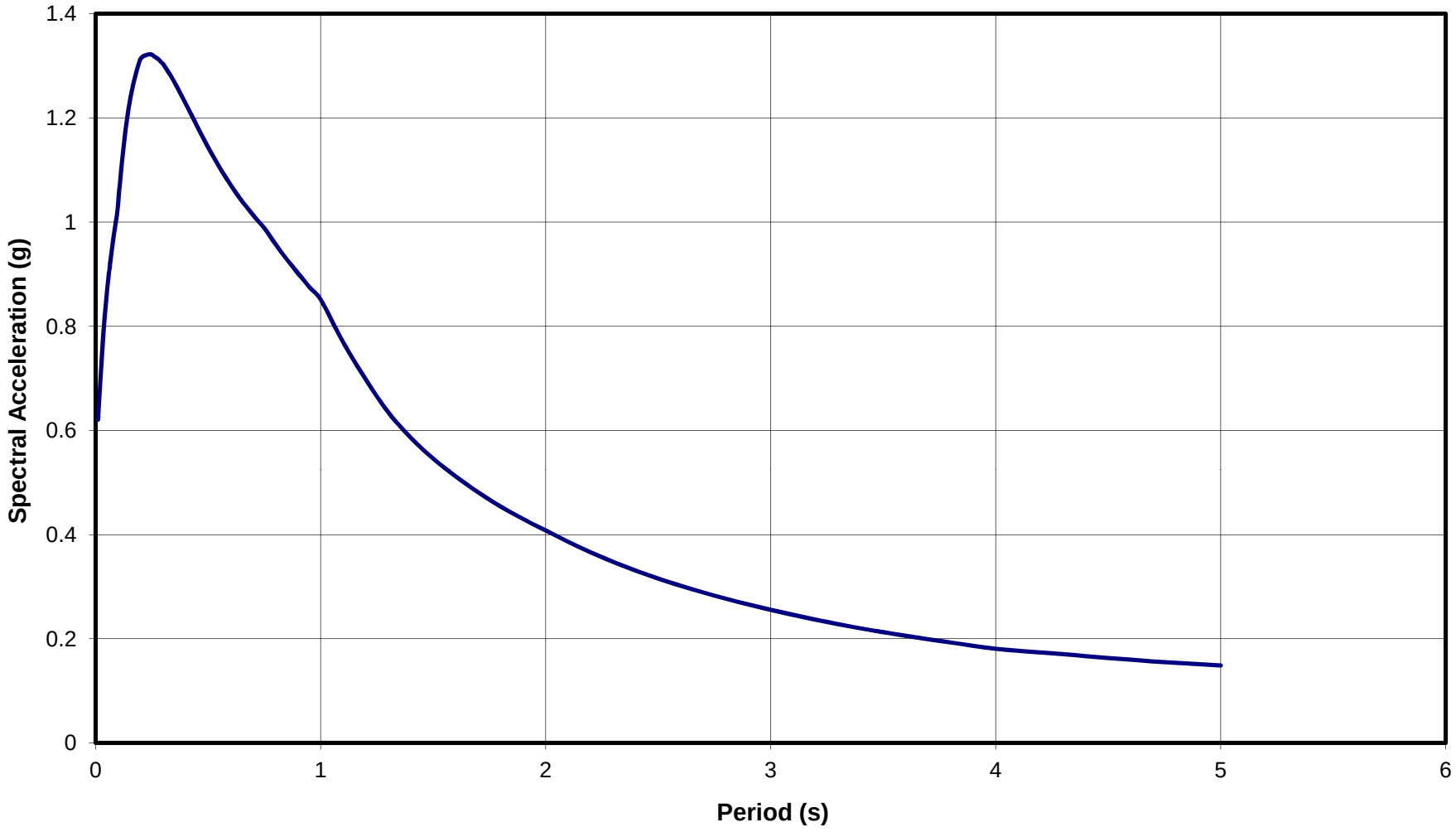
Project Site
Lower Azusa Rd
Merced Ave
Baldwin Park
Los Angeles St
Root St
N Orange Ave
San Bernardino Fwy
10
Francisquito Ave
West Co
W Merced Ave
N Baldwin Park Blvd
E Temple Ave
Vineland Ave
N Puente Ave
West Puente Valley
California Ave
Bassett
San Gabriel River Fwy
Amy Rd
Fairgrove Ave
N Hacienda Blvd
Google
©2010 Google
Pointer lat 34.068206° lon -117.975645° elev 327 ft Streaming 100%
Eye alt 20748 ft

Site Map

Appendix II

ARS Curve

ARS Curve for Puente Ave UC Widening Bridge No. 53-666



FOR CONTRACT NO. 07-1170U4
PROJECT NO. 0700000085

INFORMATION HANDOUT

Foundation Report-Cameron Avenue UC and Off-Ramp

ROUTE: 07-LA-10 33.2/37.2

State of California **Business, Transportation and Housing Agency**

M e m o r a n d u m

To: MR. Howard Ng – Branch Chief
Bridge Design Branch 20

Date: December 9, 2011

File No. 07-LA-10-PM 34.3/34.3
EA 07-1170U1
Cameron Ave UC (Widen)
Br. # 53-0667, 53-3047S

Attn.: Mr. Jason Fang
Project Engineer

From: **DEPARTMENT OF TRANSPORTATION**
DIVISION OF ENGINEERING SERVICES
Geotechnical Services
Office of Geotechnical Design South-1

Subject: Foundation Report – Cameron Avenue UC and Off-Ramp

PROJECT DESCRIPTION

The Route 10 (San Bernardino) Freeway is an eight lane freeway connecting the Los Angeles and San Bernardino County. The proposed project at PM 33.35/37.1 is to widen the freeway and strip and re-pave the existing lanes in both directions from Puente Avenue UC in the City of Baldwin Park to the Hollenbeck Avenue in the City of West Covina. A 12 feet wide median High Occupancy Vehicle (HOV) lane will be added in each direction of the freeway. The freeway will also be widened along the outside to maintain four standard traffic lanes in each direction. The overall project includes widening the following seven (7) bridges, Puente Avenue Undercrossing (Bridge No. 53-666), Cameron Avenue Undercrossing (Bridge No. 53-667), West Covina Parkway Undercrossing Bridge No. 53-2372), Vincent Avenue Undercrossing (Bridge No. 53-1043),Lark Ellen Avenue Undercrossing (Bridge No. 53-2270), Azusa Avenue Separation (Bridge No. 53-669); and Hollenbeck Avenue Undercrossing (Bridge No. 53-2271), and two new above-ground ramp structures.

The widening of existing Cameron Avenue UC Bridge and constructing of new Cameron Avenue eastbound off-ramp are part of the proposed project (Appendix I). This existing single span, CIP concrete box girder, bridge was built in 1957 and widened in 1975. The proposed works are to widen both eastbound and westbound sides of I-10 to accommodate additional HOV lanes, and add soundwall on westbound side. The new eastbound off-ramp will be three feet from widened south edge of deck. Based on the information provided by project structural engineer, the proposed widened structure and Off-Ramp will be Cast-In-Place (CIP), Post Stress (PS) concrete box girders.

SCOPE OF WORK

Our scope of services for this geotechnical evaluation includes the following:

- Review of available existing As-Built plans, drawings, and preliminary geotechnical reports pertinent to the subject site;
- Review of available published historical levels of groundwater table;
- Subsurface exploration program consisting of two boreholes drilled to a depth of approximately 110 feet;
- Selection of and performing of appropriate laboratory tests;
- Evaluation of the geotechnical data obtained from the above items, selection of geotechnical design parameters, and engineering analyses performed to assess the potential for liquefaction and others geological/geotechnical hazards at the subject site; and
- Preparation of this report describing the results of the field investigation, laboratory testing and engineering analyses, and providing appropriate conclusions and recommendations for the design and construction of foundations for the proposed structures.

This foundation report supercedes the preliminary foundation report for addition of high occupancy vehicle lanes (HOV) on Route Interstate 10 from Puente Avenue to Citrus Avenue, Los Angeles County, California, prepared by AESCO, Inc., dated August 28, 2002.

FIELD INVESTIGATION AND TESTING PROGRAM

Previous Site Investigation

The Log Of Test Borings (LOTBs) from the previous subsurface exploration are provided as a part of the ”As-Built” plans, dated June, 1969 for the Cameron Avenue UC bridge project. Based on the “As-Built” LOTB, three borings including two soil tube and one rotary were advanced below existing ground surface to depths of approximately 30 to 55 feet.

Current Field Program

Subsurface exploration was performed on March 19 and April 9, 2009 and consisted of advancing two boreholes to a maximum depth of approximately 110 feet below the

existing grade. The boreholes were advanced using a truck-mounted CME-75 drill rig fitted with hollow stem augers.

The locations of the boreholes are shown on LOTBs. The logs of the boreholes together with the explanation of terms and symbols used are also presented on LOTBs.

Field testing consisted of the Standard Penetration Test (SPT). Sampling consisted of collection of samples from the SPT split spoon sampler. The SPT split spoon sampler, two inches outside diameter and 1 3/8 inches inside diameter, is driven 18 inches into soils and the number of blows required to drive the sampler the last 12 inches is recorded as the "N" value or SPT blow count. The driving energy is provided by a 140 pound hammer dropping 30 inches.

LABORATORY TESTING PROGRAM

The samples obtained during the subsurface exploration were assigned to the laboratory for visual examination and testing. The soils were classified in accordance with Soil and Rock Logging, Classification, and Presentation Manual, Caltrans June 2010.

The laboratory testing program consisted of corrosivity series tests (minimum resistivity and pH) on composite soil samples and particle-size analysis of soils.

SITE GEOLOGY AND SUBSURFACE CONDITIONS

Physiography

The Site is located in the San Gabriel Valley, which is a broad, relatively flat to slightly sloping basin filled with Tertiary (65 million years) or younger sediments derived from surrounding hills and mountains. According to the United States Geological Survey's topographic map of the Baldwin Park 7.5-minute quadrangle, ground elevation varies from approximately 400 to 520 feet above mean sea level (amsl) between Vincent Avenue and Citrus Avenue. The area in the valley where the Site is located is regionally sloping approximately 0.01% to the southwest.

The San Gabriel Valley is bounded on the north by the San Gabriel Mountains which rise to greater than 10,000 feet amsl. South of the San Gabriel Valley, the Repetto Hills, Merced Hills, Puente Hills and San Jose Hills rise about 500 feet from the valley floor to separate the valley from the coastal plain. These hills bound the valley on the west, south and east.

Site Geology

The Site is underlain by artificial fill which may overly undifferentiated Quaternary young alluvial-fan deposits consisting of gravel, sand, silt and clay.

For this report, we reviewed the State of California, Department of Water Resources', Bulletin 104-2, Planned Utilization of Groundwater Basins, San Gabriel Valley, Appendix A: Geohydrology. Based on Plate 9A and Plate 10, cross section Z of that report, the Quaternary deposits may be as deep as 1500 feet thick through the center of the valley and approximately 500 feet in thickness through the project site.

Subsurface Conditions

The soils encountered at the project site during current subsurface exploration generally confirmed the subsoil conditions described on the "As-Built" LOTB dated August 18, 1975. The generalized stratigraphic profile at the borehole locations consisted of sand overlying sand with silt and gravel. The blow counts from the current drilling indicate that the sand layer is generally medium dense to very dense, and the underlying layer of sand with silt and gravel are generally very dense at the borehole locations.

Ground water was not encountered within the borings drilled during the current subsurface exploration. Therefore, installation of piezometers or monitoring wells to monitor groundwater was not necessary at this site.

CORROSION EVALUATION

Minimum resistivity and pH tests were conducted on one sample at depths from 60 to 65 feet. The test results are summarized in the table below. Based on Caltrans Corrosion Guidelines, version 1.0, September 2003, the test results indicate that the subsoils at this site are considered non-corrosive.

Soil Corrosion Test Summary

Location	SIC Number	Minimum Resistivity (Ohm-Cm)	pH	Chloride Content (ppm)	Sulfate Content (ppm)
A-09-007	C702908	21506	7.36	N/A	N/A

Note: Caltrans currently considers a site to be corrosive to foundation elements if one or more of the following conditions exist: Chloride concentration is greater than or equal to 500 ppm, sulfate concentration is greater than or equal to 2000 ppm, or the pH is 5.5.or less. It is the practice of Caltrans Corrosion Technology Section (with the exception of MSE Walls) if the minimum resistivity of the sample is greater than 1000 ohm-cm and the pH is greater than 5.5, the sample is considered to be noncorrosive.

SEISMIC RECOMMENDATIONS

Seismicity

The proposed bridge widening site is located within a seismically active region of Southern California, and close to a number of faults that are considered to be active for the purpose of bridge design. Based on the subsurface conditions, a Soil Profile Type "D" with an average shear wave velocity (V_{s30}) of 354 m/sec (1,161 ft/sec) for the upper 100 feet (or 30 m) is considered appropriate for the purpose of design ground motion evaluation .

Based on the Caltrans ARS Online Tool (2009), the proposed improvements are located about ten (10) miles north of the Puente Hills Blind Thrust. This fault, nearest from the site, is capable of generating a maximum earthquake (M_{max}) of moment magnitude 7.5. The design or the median peak ground acceleration (PGA) for this site is approximately 0.6g. Other nearby seismic sources, including the Elsinore Fault Zone (Whittier Section), are expected to generate lower ground motions than those presented herein for the Puente Hills Blind Thrust fault.

Soil Liquefaction

Soil liquefaction is a phenomenon in which saturated loose to medium dense, predominantly granular soils lose most, if not all, of shear strength and stiffness due to the development of excess pore pressure when subjected to ground shaking.

Effects of liquefaction on ground surface include foundation settlement and reduction in bearing capacity, sand boils, and ground settlement and lateral spreading.

According to the map of the Seismic Hazard Zones of Baldwin Quadrangle released on March 25, 1999, the project site is not situated within areas delineated as liquefaction zone. The historical highest groundwater measured from monitoring wells (well number 3052E, Los Angeles public Work, September 1, 1983) within a half mile radius of the project site is at an elevation of 275.5 feet above mean sea level (i.e. 91 feet below existing ground surface). Based on the Seismic Hazard Zone Report for the Baldwin Park 7.5-Minute Quadrangle, Los Angeles County California from Department of Conservation Division of Mines and Geology (1998), the historical highest groundwater is estimated to be at 75 feet below existing grade. Therefore, historical highest groundwater at a depth of 75 feet below existing grade will be used for liquefaction analysis.

Based on the above depth to the historically highest groundwater table at the site and the presence of generally dense to very dense soil below this depth, the project site is not considered susceptible to soil liquefaction during seismic events.

Seismically Induced Ground Settlement

In the absence of soil liquefaction, seismically induced ground settlement at the site, if any, should be small and negligible.

AS-BUILT FOUNDATION DATA

Based on the As-Built foundation plans (1957 and 1975), the existing foundation type of the abutments is spread footing with bottom elevations of 349 ft Mean Sea Level (MSL). An allowable bearing capacity of three ton square foot (tsf) was used for footing structural design. The dimensions, bottom of footing elevation, and allowable bearing pressure of the existing footings are summarized in the following table (AESCO, August, 2002).

Foundation Plan for Cameron Avenue Undercrossing (1957)

Location	Footing Type & Dimensions M (ft)	Allowable Bearing Pressure kN/m^2 (tsf)	Bottom of Footing Elevation m (ft; MSL)
Abutment 1	Spread Footing 45.9 (150.6)L x 1.52 (5)W	287.28 (3.0)	106.38 (349)
Abutment 2	Spread Footing 45.9 (150.6)L x 1.52 (5)W	287.28 (3.0)	106.38 (349)

Foundation Plan for Cameron Avenue Undercrossing Widening (1975)

Location	Footing Type & Dimensions m (ft)	Allowable Bearing Pressure kN/m^2 (tsf)	Bottom of Footing Elevation m (ft; MSL)
Abutment 1 (North Side widening)	Spread Footing 8.29 (27.2)L x 4.27 (14)W	287.28 (3.0)	106.38 (349)
Abutment 1 (South Side idening)	Spread Footing 13.84 (45.4)L x 4.27 (14)W	287.28 (3.0)	106.38 (349)
Abutment 2 (North Side Widening)	Spread Footing 8.29 (27.2)L x 4.27 (14)W	287.28 (3.0)	106.38 (349)
Abutment 2 (South Side Widening)	Spread Footing 13.84 (45.4)L x 4.27 (14)W	287.28 (3.0)	106.38 (349)

GEOTECHNICAL RECOMMENDATIONS

Footing Type

Shallow foundations consisting of spread footings may be used to support the new abutments. The footings should be embedded at least five feet below the lowest adjacent grade, and be based into the native, dense granular materials.

Soil Bearing Pressure

Spread footings may be designed for an allowable dead-plus-live load bearing pressure of six kips per square feet (ksf). The minimum edge pressures induced by eccentric loading or overturning moments should not be allowed to exceed the above mentioned allowable bearing capacity. The allowable bearing capacity is estimated based on footings are constructed on a properly prepared subgrade and a total settlement of two inches.

The dimensions, bottom of footing elevations, minimum footing embedment depths, and allowable soil bearing capacities for Cameron Ave UC and off-ramp are summarized in the table below.

Cameron Off-Ramp
Spread Footing Data Table

Support Location	Footing Size (ft)		Bottom of Footing Elevation (ft)	Minimum Footing Embedment Depth (ft)	WSD	
	B	L			Permissible Gross Contact Stress (ksf)	Allowable Gross Bearing Capacity (ksf)
Abut 1	14.0	34.6	349.75	7.0	5.0	6.0
Abut 2	14.0	34.6	349.75	7.0	5.0	6.0

Cameron Avenue UC
Spread Footing Data Table

Support Location	Footing Size (ft)		Bottom of Footing Elevation (ft)	Minimum Footing Embedment Depth (ft)	WSD	
	B	L			Permissible Gross Contact Stress (ksf)	Allowable Gross Bearing Capacity (ksf)
Abut 1 (WB widen)	14.0	21.0	349.75	5.0	5.2	6.0
Abut 2 (WB widen)	14.0	21.0	349.75	4.0	5.2	6.0
Abut 1 (EB widen)	16.0	16.75	349.75	5.0	5.2	6.0
Abut 2 (EB widen)	16.0	16.75	349.75	5.0	5.2	6.0

Note: EB: East Bound, WB: West Bound

CONSTRUCTION CONSIDERATIONS

Footing Observations

All foundation excavations should be observed by the geotechnical engineer prior to the placement of forms, reinforcement, or concrete, for verification of conformance with the intent of these recommendations. All excavations should be trimmed neat, level, and square. All loose or unsuitable materials should be removed prior to the placement of concrete.

APPENDICES

Appendix I: Site Map
Appendix II: ARS Curve

If you have any questions or comments, please contact Hung Po Yang (916) 227-4534.

Hung Po Yang, P.E.
Transportation Engineer–Civil
Branch A

Cc: Zareh Shahbazian, PM
Shira Rajendra, GS Corporate
Structure Construction R.E. Pending File
DES Office Engineer, Office of PS&E
Kristen Stahl, DME

Appendix I

Site Map

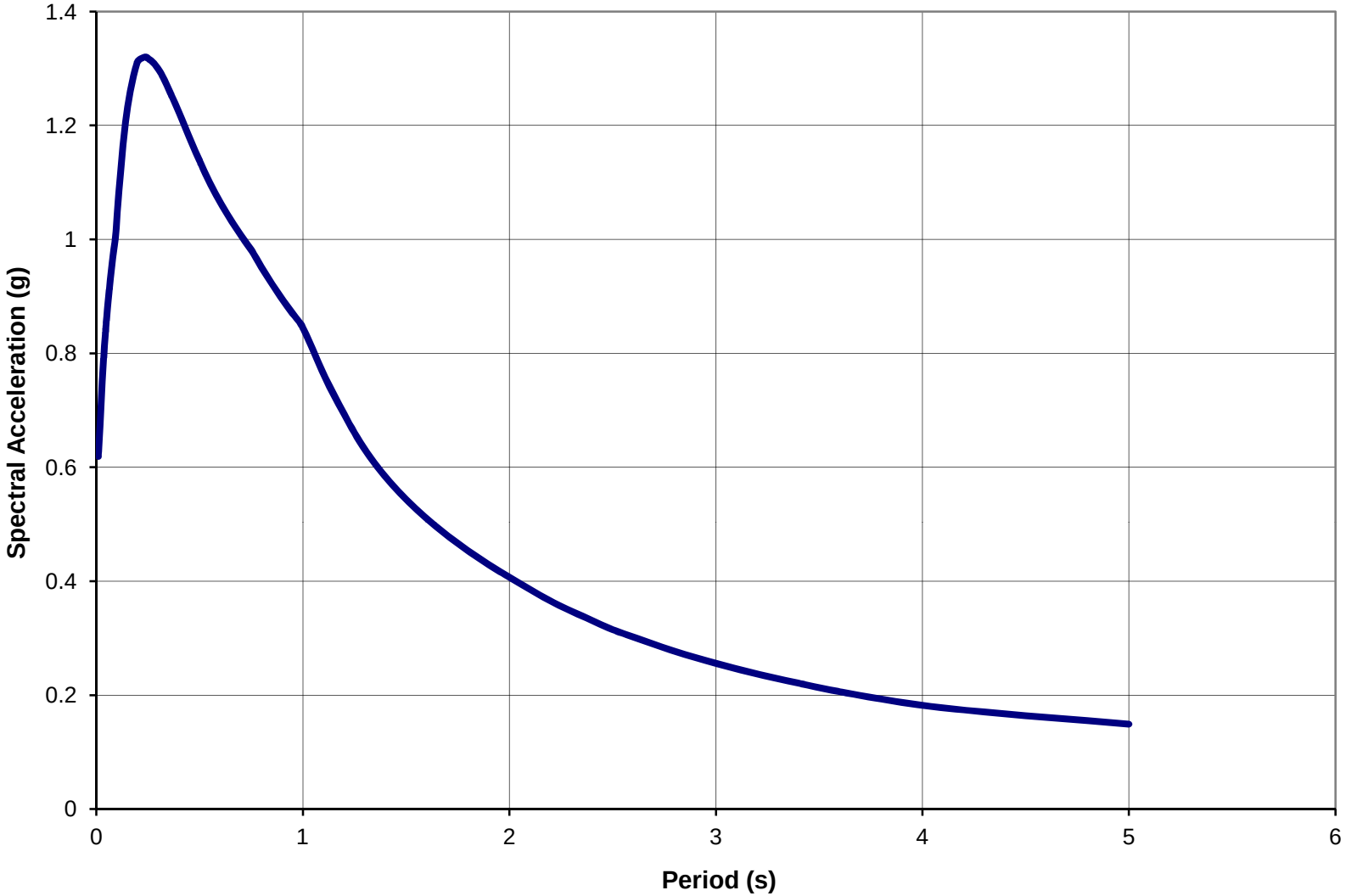
Project Site
Irwindale
Olive St
Vincent
Cypress St
Baldwin Park Blvd
Maine Ave
Baldwin Park
N Orange Ave
N Azusa Ave
San
rnardino Fwy
West Covina
W Merced Ave
Puente Ave
S Sunset Ave
Bassett
West Puente Valley
Valinda
Avocado Heights
© 2010 Google
Google
Pointer lat 34.071611° lon -117.958169° elev 357 ft Streaming 100%
Eye alt 30051 ft

Site Map

Appendix II

ARS Curve

ARS Curve for Cameron Ave UC Widening Bridge No. 53-667



FOR CONTRACT NO. 07-1170U4
PROJECT NO. 0700000085

INFORMATION HANDOUT

Foundation Report-W Covina UC

ROUTE: 07-LA-10 33.2/37.2

State of California **Business, Transportation and Housing Agency**

M e m o r a n d u m

To: MR. Howard Ng – Branch Chief
Bridge Design Branch 20

Date: December 9, 2011

File No. 07-LA-10-PM 34.5/34.5
EA 07-1170U1
W Covina UC (Widen)
Br. # 53-2372

Attn.: Mr. Jason Fang
Project Engineer

From: **DEPARTMENT OF TRANSPORTATION**
DIVISION OF ENGINEERING SERVICES
Geotechnical Services
Office of Geotechnical Design South-1

Subject: Foundation Report – W Covina UC

PROJECT DESCRIPTION

The Route 10 (San Bernardino) Freeway is an eight lane freeway connecting the Los Angeles and San Bernardino County. The proposed project at PM 33.35/37.1 is to widen the freeway and strip and re-pave the existing lanes in both directions from Puente Avenue UC in the City of Baldwin Park to the Hollenbeck Avenue in the City of West Covina. A 12 feet wide median High Occupancy Vehicle (HOV) lane will be added in each direction of the freeway. The freeway will also be widened along the outside to maintain four standard traffic lanes in each direction. The overall project includes widening the following seven (7) bridges, Puente Avenue Undercrossing (Bridge No. 53-666), Cameron Avenue Undercrossing (Bridge No. 53-667), West Covina Parkway Undercrossing Bridge No. 53-2372), Vincent Avenue Undercrossing (Bridge No. 53-1043),Lark Ellen Avenue Undercrossing (Bridge No. 53-2270), Azusa Avenue Separation (Bridge No. 53-669); and Hollenbeck Avenue Undercrossing (Bridge No. 53-2271), and two new above-ground ramp structures.

The widening of existing W Covina UC Bridge is part of the proposed project (Appendix I). This existing two span, CIP/PS concrete box girder, bridge was built in 1975. The proposed work is to widen both eastbound and westbound sides of I-10 to accommodate additional HOV lanes. Based on the information provided by project structural engineer, the proposed widened structures will be two spans, Precast, Pre-Stressed Bulb-Tee girder, made continuous at bent with post-tension.

SCOPE OF WORK

Our scope of services for this geotechnical evaluation includes the following:

- Review of available existing As-Built plans, drawings, and preliminary geotechnical reports pertinent to the subject site;
- Review of available published historical levels of groundwater table;
- Subsurface exploration program consisting of two boreholes drilled to a depth of approximately 110 feet;
- Selection of and performing of appropriate laboratory tests;
- Evaluation of the geotechnical data obtained from the above items, selection of geotechnical design parameters, and engineering analyses performed to assess the potential for liquefaction and others geological/geotechnical hazards at the subject site; and
- Preparation of this report describing the results of the field investigation, laboratory testing and engineering analyses, and providing appropriate conclusions and recommendations for the design and construction of foundations for the proposed structures.

This foundation report supercedes the preliminary foundation report for addition of high occupancy vehicle lanes (HOV) on Route Interstate 10 from Puente Avenue to Citrus Avenue, Los Angeles County, California, prepared by AESCO, Inc., dated August 28, 2002.

FIELD INVESTIGATION AND TESTING PROGRAM

Previous Site Investigation

The Log Of Test Borings (LOTBs) from the previous subsurface exploration are provided as a part of the ”As-Built” plans, dated July, 1969 for the West Covina Parkway UC bridge project. Based on the “As-Built” LOTB, six borings including four penetration and two rotary were advanced below existing ground surface to depths of approximately 25 to 60 feet.

Current Field Program

Subsurface exploration was performed on April 14 and 15, 2009 and consisted of advancing two boreholes to a maximum depth of approximately 110 feet below the

existing grade. The boreholes were advanced using a truck-mounted CME-75 drill rig fitted with hollow stem augers.

The locations of the boreholes are shown on LOTBs. The logs of the boreholes together with the explanation of terms and symbols used are also presented on LOTBs.

Field testing consisted of the Standard Penetration Test (SPT). Sampling consisted of collection of samples from the SPT split spoon sampler. The SPT split spoon sampler, two inches outside diameter and 1 3/8 inches inside diameter, is driven 18 inches into soils and the number of blows required to drive the sampler the last 12 inches is recorded as the "N" value or SPT blow count. The driving energy is provided by a 140 pound hammer dropping 30 inches.

LABORATORY TESTING PROGRAM

The samples obtained during the subsurface exploration were assigned to the laboratory for visual examination and testing. The soils were classified in accordance with Soil and Rock Logging, Classification, and Presentation Manual, Caltrans June 2007.

The laboratory testing program consisted of corrosivity series tests (minimum resistivity and pH) on composite soil samples and particle-size analysis of soils.

SITE GEOLOGY AND SUBSURFACE CONDITIONS

Physiography

The project site is located within the San Gabriel Valley, in Southern California, which is a broad, relatively flat to slightly sloping basin filled with Tertiary (65 million years) or younger sediments derived from surrounding hills and mountains. According to the United States Geological Survey's topographic map of the Baldwin Park 7.5-minute quadrangle, ground elevation between Vincent Avenue UC and Citrus Avenue UC varies from approximately 400 to 520 feet above Mean Sea Level (MSL). The general site area is sloping approximately 0.01% to the southwest.

The San Gabriel Valley is bounded on the north by the San Gabriel Mountains which rise to greater than 10,000 feet above MSL. South of the San Gabriel Valley, the Repetto Hills, Merced Hills, Puente Hills and San Jose Hills rise about 500 feet from the valley floor to separate the valley from the coastal plain. These hills bound the valley on the west, south and east.

Site Geology

The Site is underlain by artificial fill which may overly undifferentiated Quaternary young alluvial-fan deposits consisting of gravel, sand, silt and clay.

For this report, we reviewed the State of California, Department of Water Resources', Bulletin 104-2, Planned Utilization of Groundwater Basins, San Gabriel Valley, Appendix A: Geohydrology. Based on Plate 9A and Plate 10, cross section Z of that report, the Quaternary deposits may be as deep as 1500 feet thick through the center of the valley and approximately 500 feet in thickness through the project site.

Subsurface Conditions

The soils encountered at the project site during current subsurface exploration generally confirmed the soil conditions described on the "As-Built" LOTB dated July, 1969. The generalized stratigraphic profile at the borehole locations consisted of sand overlying sand with silt and gravel. The blow counts from the current drilling indicate that the sandy layer is generally medium dense to very dense, and the underlying layer of sand with silt and gravel are generally very dense at the borehole locations.

No ground water was encountered during current subsurface exploration and no piezometer well was installed to monitor groundwater level after drilling completion.

CORROSION EVALUATION

Minimum resistivity and pH tests were conducted on one composite sample at depths from 0 to 100 feet. The test results are summarized in the table below. Based on Caltrans Corrosion Guidelines, version 1.0, September 2003, the test results indicate that the subsoils at this site are considered non-corrosive.

Soil Corrosion Test Summary

Location	SIC Number	Minimum Resistivity (Ohm-Cm)	pH	Chloride Content (ppm)	Sulfate Content (ppm)
A-09-038 A-09-039	C702315	12023	6.98	N/A	N/A

Note: Caltrans currently considers a site to be corrosive to foundation elements if one or more of the following conditions exist: Chloride concentration is greater than or equal to 500 ppm, sulfate concentration is greater than or equal to 2000 ppm, or the pH is 5.5.or less. It is the practice of Caltrans Corrosion Technology Section (with the exception of MSE Walls) if the minimum resistivity of the sample is greater than 1000 ohm-cm and the pH is greater than 5.5, the sample is considered to be noncorrosive.

SEISMIC RECOMMENDATIONS

Seismicity

The proposed bridge widening site is located within a seismically active region of Southern California, and close to a number of faults that are considered to be active for the purpose of bridge design. Based on the subsurface conditions, a Soil Profile Type "D" with an average shear wave velocity (V_{s30}) of 352 m/sec (1,155 ft/sec) for the upper 100 feet (or 30 m) is considered appropriate for the purpose of design ground motion evaluation .

Based on the Caltrans ARS Online Tool (2009), the proposed improvements are located about ten (10) miles north of the Puente Hills Blind Thrust. This fault, nearest from the site, is capable of generating a maximum earthquake (M_{max}) of moment magnitude 7.5. The design or the median peak ground acceleration (PGA) for this site is approximately 0.6g. Other nearby seismic sources, including the Elsinore Fault Zone (Whittier Section), are expected to generate lower ground motions than those presented herein for the Puente Hills Blind Thrust fault. The recommended design Acceleration Response Spectrum (ARS) curve is presented in Appendix II.

Soil Liquefaction

Soil liquefaction is a phenomenon in which saturated loose to medium dense, predominantly granular soils lose most, if not all, of shear strength and stiffness due to the development of excess pore pressure when subjected to ground shaking.

Effects of liquefaction on ground surface include foundation settlement and reduction in bearing capacity, sand boils, and ground settlement and lateral spreading.

According to the map of the Seismic Hazard Zones of Baldwin Quadrangle released on March 25, 1999, the project site is not situated within areas delineated as liquefaction zone. The historical highest groundwater measured from monitoring wells (well number 3052E, Los Angeles public Work, September 1, 1983) within a half mile radius of the project site is at an elevation of 275.5 feet above mean sea level (i.e. 91 feet below existing ground surface). Based on the Seismic Hazard Zone Report for the Baldwin Park 7.5-Minute Quadrangle, Los Angeles County California from Department of Conservation Division of Mines and Geology (1998), the historical highest groundwater is estimated to be at 75 feet below existing grade. Therefore, historical highest groundwater at a depth of 75 feet below existing grade will be used for liquefaction analysis.

Based on the above depth to the historically highest groundwater table at the site and the presence of generally dense to very dense soil below this depth, the project site is not considered susceptible to soil liquefaction during seismic events.

Seismically Induced Ground Settlement

In the absence of soil liquefaction, seismically induced ground settlement at the site, if any, should be small and negligible.

AS-BUILT FOUNDATION DATA

Based on the As-Built foundation plans (1975), the existing foundation type of the abutments is spread footing at abutments and isolated column footings at the bent. The dimensions, bottom of footing elevation, and allowable bearing pressure of the existing footings are summarized in the following table (AESCO, August, 2002).

Foundation Plan for W Covina Parkway Undercrossing Widening (1975)

Location	Footing Type & Dimensions m (ft)	Allowable Bearing Pressure kN/m^2 (tsf)	Bottom of Footing Elevation m (ft; MSL)
Abutment 1	Spread Footing 79.61 (261.2)L x 1.22 (4)W	191.52 (2.0)	112.17 (368)
Bent 2	Isolated Column Footing 3.66 (12)L x 3.5 (11.5)W At 10.97 (36) spacing	478.8 (5.0)	107.3 (352)
Abutment 3	Spread Footing 72.42 (237.6)L x 1.22 (4)W	191.52 (2.0)	112.50 (369)

GEOTECHNICAL RECOMMENDATIONS

Footing Type

Based on the preliminary foundation and design loads information provided by the project structural engineer, two feet (24 inches) diameter drilled shafts with a pile cap will be constructed at the proposed abutments and bent locations. Pile axial and lateral load capacities along with tip elevations are provided in the following sections. The following table summarizes the general foundation information for the proposed foundations at abutments and the bent.

General Foundation Information

Support No.	Design Method	Pile Type (Drilled Shaft)	Finished Grade Elevation (ft)	Cut-off Elevation (ft)	Pile Cap Size (ft)		Permissible settlement under Service Load (in)	Number of Piles Per Support
					L	B		
Abut 1	WSD	24” dia.	371.5	367.75	13.5 (Lt) 21.0 (Rt)	9	1	4 (Lt) 6 (Rt)
Bent 2	LRFD	24” dia.	357.75 (Lt) 352.25 (Rt)	354.75 (Lt) 349.25 (Rt)	16.0 (Lt) 20.0 (Rt)	16	1	8 (Lt) 9 (Rt)
Abut 3	WSD	24” dia.	372.83	369.08	13.5 (Lt) 21.0 (Rt)	9	1	4 (Lt) 6 (Rt)

Pile Design Parameters

Axial pile capacity calculations for the proposed abutments and bent provided in the table below are estimated based on friction resistance only.

Foundation Recommendations for Abutments

Support	Pile	Cut-off Elevation (ft)	LRFD Service-I Limit State Load (kips) per Support		LRFD Service-I Limit State Load (kips) per Pile (Compression)	Nominal Resistance (kips)	Design Tip Elevations (ft)*	Specified Tip Elevation (ft)
			Total	Permanent				
Abut 1	24” Drilled Shaft	367.75	679 (Rt) 413 (Lt)	493 (Rt) 319 (Lt)	137 (Rt) 134 (Lt)	280	336.75	336.0
Abut 3	24” Drilled Shaft	369.08	679 (Rt) 413 (Lt)	493 (Rt) 319 (Lt)	137 (Rt) 134 (Lt)	280	338.08	338.0

Note: * Design tip elevations are controlled by compression

Foundation Recommendations for Bent

Support Location	Pile Type	Cut-Off Elevation (ft)	Service-I Limit State Load (kips) per Support	Total Permissible Support Settlement (inches)	Required Factored Nominal Resistance (kips)				Design Tip Elevation (ft)*	Specified Tip Elevation (ft)
					Strength Limit		Extreme Limit			
					Comp. (φ = 0.7)	Tension (φ = 0.7)	Comp. (φ = 1. 0)	Tension (φ = 1.0)		
Bent 2	24” Drilled Shaft	349.25(Rt) 354.75(Lt)	1344 (Rt) 879 (Lt)	1	2050 (Rt) /support 267 (Rt) max./pile 1288 (Lt) /support 215 (Lt) max./pile	N/A	989 (Rt) /support 393 (Rt) max./pile 662 (Lt) /support 271 (Lt) max./pile	173 (Rt) max./pile 105 (Lt) max./pile	326.25 (Rt) (a) 324.25 (Rt) (b) 334.75 (Lt) (a) 329.75 (Lt) (b)	324.0 (Rt) 329.0 (Lt)

Note: * Design tip elevations are controlled by (a) compression, (b) lateral load

Pile Data Table

Location	Pile Type	Nominal Resistance (kips) per pile		Design Tip Elevation (ft)*	Specified Tip Elevation (ft)
		Compression	Tension		
Abut 1	24" Drilled Shaft	280	0	336.75 (a)	336.0
Bent 2	24" Drilled Shaft	400 (Rt) 310 (Lt)	180 (Rt) 105 (Lt)	326.25 (Rt) (a) 324.25 (Rt) (b) 334.75 (Lt) (a) 329.75 (Lt) (b)	324.0 (Rt) 329.0 (Lt)
Abut 3	24" Drilled Shaft	280	0	338.08 (a)	338.0

Note: * Design tip elevations are controlled by (a) compression, (b) lateral load

Group Effect

For Drilled Shaft concrete pile groups in cohesionless soil, the nominal axial resistance of the pile group shall be taken as the sum of the nominal resistance of all of the piles in the group multiplied by the group efficiency factor as follows:

Center to Center Pile Spacing	Group Efficiency Factor
2.5 D	0.65
3.0 D	0.77
3.5 D	0.88
4.0 D	1.0

Note: D: pile diameter

CONSTRUCTION CONSIDERATIONS

Pile Construction

The following recommendations are presented and should be followed where applicable.

- Drilled shaft installation should be performed in accordance with Section 49, Piling, of the Caltrans Standard Specifications (May 2006).
- Drilled shaft excavations should not be left open overnight.
- In the event of caving of soil or water seepage into the pile excavation, casing should be used. Casing may be pulled out as the pile excavation is filled with concrete.

- Drilled shaft construction sequence is important for pile groups with center-to-center (CTC) spacing equal to or less than three times of the pile diameter. Construction of adjacent shafts should be performed only after the concrete of the previously installed piles properly set and developed adequate strength.

APPENDICES

Appendix I: Site Map
Appendix II: ARS Curve

If you have any questions or comments, please contact Hung Po Yang (916) 227-4534.

Hung Po Yang, P.E.
Transportation Engineer–Civil
Branch A

Cc: Zareh Shahbazian, PM
Shira Rajendra, GS Corporate
Structure Construction R.E. Pending File
DES Office Engineer, Office of PS&E
Kristen Stahl, DME

Appendix I

Site Map

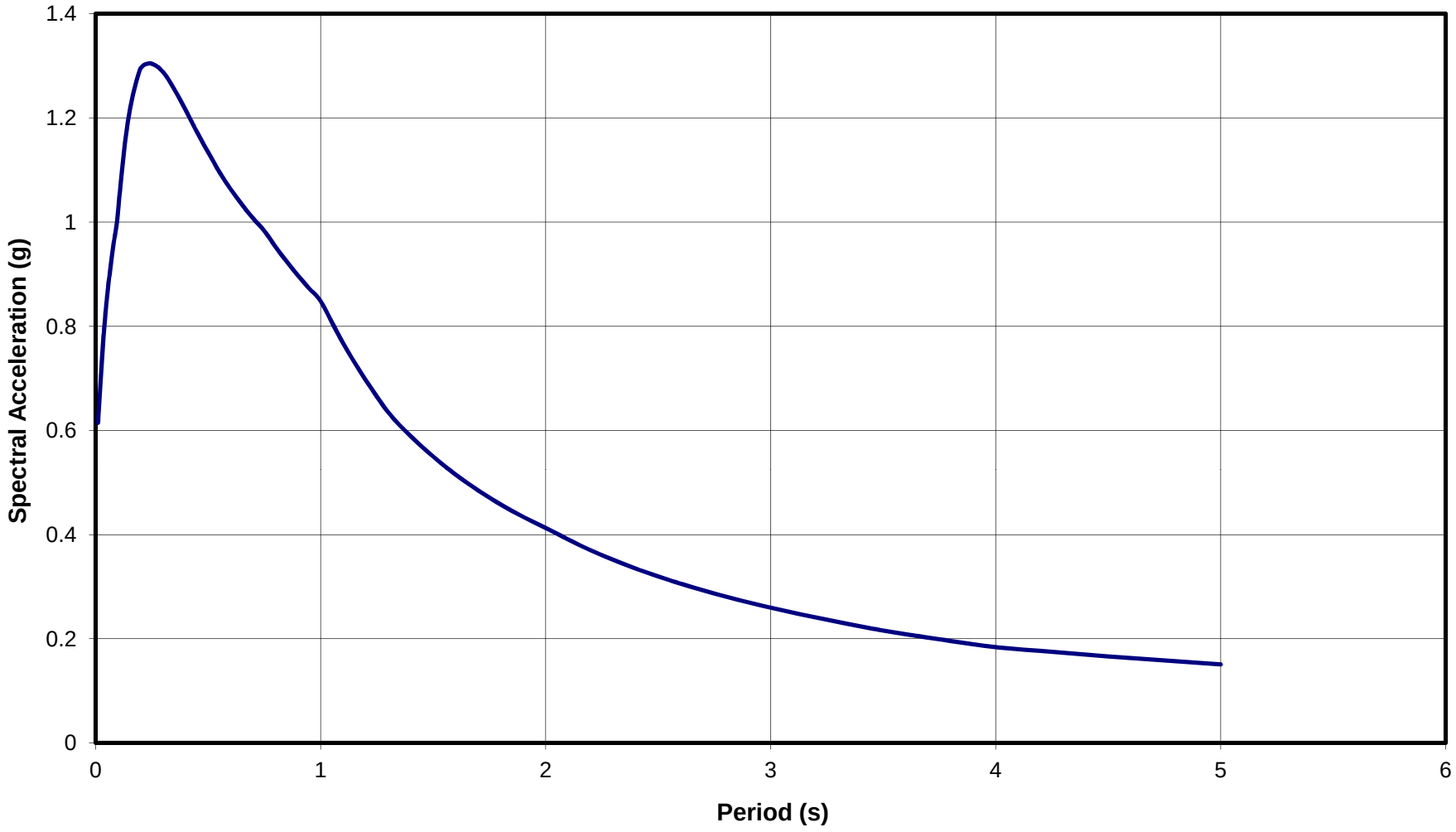
Project Site
Irwindale
Olive St
Vincent
Cypress St
Baldwin Park Blvd
Maine Ave
Baldwin Park
N Orange Ave
N Azusa Ave
San
rnardino Fwy
West Covina
W Merced Ave
Puente Ave
S Sunset Ave
Bassett
West Puente Valley
Valinda
Avocado Heights
© 2010 Google
Google
Pointer lat 34.071611° lon -117.958169° elev 357 ft Streaming 100%
Eye alt 30051 ft

Site Map

Appendix II

ARS Curve

ARS Curve for W Covina Pkwy UC Widening Bridge No. 53-2372



FOR CONTRACT NO. 07-1170U4
PROJECT NO. 0700000085

INFORMATION HANDOUT

Report-Vincent Avenue UC and On-Ramp

ROUTE: 07-LA-10 33.2/37.2

State of California **Business, Transportation and Housing Agency**

M e m o r a n d u m

To: MR. Howard Ng – Branch Chief
Bridge Design Branch 20

Date: December 9, 2011

File No. 07-LA-10-PM 35.4/35.4
EA 07-1170U1
Vincent Ave UC (Widen)
Br. #53-1043, 53-3049S

Attn.: Mr. Jason Fang
Project Engineer

From: **DEPARTMENT OF TRANSPORTATION**
DIVISION OF ENGINEERING SERVICES
Geotechnical Services
Office of Geotechnical Design South-1

Subject: Foundation Report – Vincent Avenue UC and On-Ramp

PROJECT DESCRIPTION

The Route 10 (San Bernardino) Freeway is an eight lane freeway connecting the Los Angeles and San Bernardino County. The proposed project at PM 33.35/37.1 is to widen the freeway and strip and re-pave the existing lanes in both directions from Puente Avenue UC in the City of Baldwin Park to the Hollenbeck Avenue in the City of West Covina. A 12 feet wide median High Occupancy Vehicle (HOV) lane will be added in each direction of the freeway. The freeway will also be widened along the outside to maintain four standard traffic lanes in each direction. The overall project includes widening the following seven (7) bridges, Puente Avenue Undercrossing (Bridge No. 53-666), Cameron Avenue Undercrossing (Bridge No. 53-667), West Covina Parkway Undercrossing Bridge No. 53-2372), Vincent Avenue Undercrossing (Bridge No. 53-1043),Lark Ellen Avenue Undercrossing (Bridge No. 53-2270), Azusa Avenue Separation (Bridge No. 53-669); and Hollenbeck Avenue Undercrossing (Bridge No. 53-2271), and two new above-ground ramp structures.

The widening of existing Vincent Avenue UC Bridge and constructing of new Vincent Avenue on-ramp are part of the proposed project (Appendix I). The original structure, constructed in 1956, was a single span RC box girder supported on by strutted type abutments. In 1965, the structure was widened on the south side with an RC box girder. In 1975, the bridge was widened on the north side and was converted into a two span in which the original abutment 1 was modified by attaching a 12 inches wall on the abutment stem to serve as a pier wall to the new two spans bridge.

The proposed works are to widen the south side (eastbound) and replace barrier on the north side (westbound) of the bridge. The bridge widening width will be approximately 14.5 feet. The new on-ramp will be three feet from widened south edge of deck. Based

on the information provided by project structural engineer, the CIP/PS box girder is proposed for the bridge and on-ramp widening construction.

SCOPE OF WORK

Our scope of services for this geotechnical evaluation includes the following:

- Review of available existing As-Built plans, drawings, and preliminary geotechnical reports pertinent to the subject site;
- Review of available published historical levels of groundwater table;
- Subsurface exploration program consisting of two boreholes drilled to a depth of approximately 100 feet;
- Selection of and performing of appropriate laboratory tests;
- Evaluation of the geotechnical data obtained from the above items, selection of geotechnical design parameters, and engineering analyses performed to assess the potential for liquefaction and others geological/geotechnical hazards at the subject site; and
- Preparation of this report describing the results of the field investigation, laboratory testing and engineering analyses, and providing appropriate conclusions and recommendations for the design and construction of foundations for the proposed structures.

This foundation report supercedes the preliminary foundation report for addition of high occupancy vehicle lanes (HOV) on Route Interstate 10 from Puente Avenue to Citrus Avenue, Los Angeles County, California, prepared by AESCO, Inc., dated August 28, 2002.

FIELD INVESTIGATION AND TESTING PROGRAM

Previous Site Investigation

The Log Of Test Borings (LOTBs) from the previous subsurface exploration are provided as a part of the ”As-Built” plans, dated July, 1969 for the Vincent Avenue UC project. Based on the “As-Built” LOTB, four boreholes, including two penetration and two rotary, were advanced below existing ground surface to depths of approximately 30 to 70 feet.

Current Field Program

Subsurface exploration was performed on April 16 and 21, 2009 and consisted of advancing two boreholes to a maximum depth of approximately 100 feet below the existing grade. The boreholes were advanced using a truck-mounted CME-75 drill rig fitted with hollow stem augers.

The locations of the boreholes are shown on LOTBs. The logs of the boreholes together with the explanation of terms and symbols used are also presented on LOTBs.

Field testing consisted of the Standard Penetration Test (SPT). Sampling consisted of collection of samples from the SPT split spoon sampler. The SPT split spoon sampler, two inches outside diameter and 1 3/8 inches inside diameter, is driven 18 inches into soils and the number of blows required to drive the sampler the last 12 inches is recorded as the "N" value or SPT blow count. The driving energy is provided by a 140 pound hammer dropping 30 inches.

LABORATORY TESTING PROGRAM

The samples obtained during the subsurface exploration were assigned to the laboratory for visual examination and testing. The soils were classified in accordance with Soil and Rock Logging, Classification, and Presentation Manual, Caltrans June 2007.

The laboratory testing program consisted of corrosivity series tests (minimum resistivity and pH) on composite soil samples, consolidation, direct shear, Atterberg Limits, and sieve analysis tests of soil samples.

SITE GEOLOGY AND SUBSURFACE CONDITIONS

Physiography

The project site is located within the San Gabriel Valley, in Southern California, which is a broad, relatively flat to slightly sloping basin filled with Tertiary (65 million years) or younger sediments derived from surrounding hills and mountains. According to the United States Geological Survey's topographic map of the Baldwin Park 7.5-minute quadrangle, ground elevation between Vincent Avenue UC and Citrus Avenue UC varies from approximately 400 to 520 feet above Mean Sea Level (MSL). The general site area is sloping approximately 0.01% to the southwest.

The San Gabriel Valley is bounded on the north by the San Gabriel Mountains which rise to greater than 10,000 feet above MSL. South of the San Gabriel Valley, the Repetto

Hills, Merced Hills, Puente Hills and San Jose Hills rise about 500 feet from the valley floor to separate the valley from the coastal plain. These hills bound the valley on the west, south and east.

Site Geology

The Site is underlain by artificial fill which may overly undifferentiated Quaternary young alluvial-fan deposits consisting of gravel, sand, silt and clay.

For this report, we reviewed the State of California, Department of Water Resources', Bulletin 104-2, Planned Utilization of Groundwater Basins, San Gabriel Valley, Appendix A: Geohydrology. Based on Plate 9A and Plate 10, cross section Z of that report, the Quaternary deposits may be as deep as 1500 feet thick through the center of the valley and approximately 500 feet in thickness through the project site.

Subsurface Conditions

The soils encountered at the project site during current site investigation generally confirmed the soil conditions described on the "As-Built" LOTB dated August 18, 1975. The generalized stratigraphic profile at the borehole locations consisted of sand/silty sand overlying sandy silt and sand. The blow counts from the current drilling indicate that the sand/silty sand layer is generally medium dense to very dense, and the underlying layer of sandy silt are generally medium dense at the borehole locations.

Ground water was not encountered within the borings drilled during the current subsurface exploration. Therefore, installation of piezometers or monitoring wells to monitor groundwater was not necessary at this site.

CORROSION EVALUATION

Minimum resistivity and pH tests were conducted on one sample at depths from 60 to 65 feet. The test results are summarized in the table below. Based on Caltrans Corrosion Guidelines, version 1.0, September 2003, the test results indicate that the subsoils at this site are considered non-corrosive.

Soil Corrosion Test Summary

Location	SIC Number	Minimum Resistivity (Ohm-Cm)	pH	Chloride Content (ppm)	Sulfate Content (ppm)
A-09-019	C702909	7654	7.54	N/A	N/A
A-09-019	C702910	1785	7.55	N/A	N/A

Note: Caltrans currently considers a site to be corrosive to foundation elements if one or more of the following conditions exist: Chloride concentration is greater than or equal to 500 ppm, sulfate concentration is greater than or equal to 2000 ppm, or the pH is 5.5.or less. It is the practice of Caltrans Corrosion Technology Section (with the exception of MSE Walls) if the minimum resistivity of the sample is greater than 1000 ohm-cm and the pH is greater than 5.5, the sample is considered to be noncorrosive.

SEISMIC RECOMMENDATIONS

Seismicity

The proposed bridge widening site is located within a seismically active region of Southern California, and close to a number of faults that are considered to be active for the purpose of bridge design. Based on the subsurface conditions, a Soil Profile Type "D" with an average shear wave velocity (V_{s30}) of 279 m/sec (915 ft/sec) for the upper 100 feet (or 30 m) is considered appropriate for the purpose of design ground motion evaluation .

Based on the Caltrans ARS Online Tool (2009), the proposed improvements are located about ten (10) miles north of the Puente Hills Blind Thrust. This fault, nearest from the site, is capable of generating a maximum earthquake (M_{max}) of moment magnitude 7.5. The design or the median peak ground acceleration (PGA) for this site is approximately 0.6g. Other nearby seismic sources, including the Elsinore Fault Zone (Whittier Section), are expected to generate lower ground motions than those presented herein for the Puente Hills Blind Thrust fault. The recommended design Acceleration Response Spectrum (ARS) curve is presented in Appendix II.

Soil Liquefaction

Soil liquefaction is a phenomenon in which saturated loose to medium dense, predominantly granular soils lose most, if not all, of shear strength and stiffness due to the development of excess pore pressure when subjected to ground shaking.

Effects of liquefaction on ground surface include foundation settlement and reduction in bearing capacity, sand boils, and ground settlement and lateral spreading.

According to the map of the Seismic Hazard Zones of Baldwin Quadrangle released on March 25, 1999, the project site is not situated within areas delineated as liquefaction

zone. Based on the Seismic Hazard Zone Report for the Baldwin Park 7.5-Minute Quadrangle, Los Angeles County California from Department of Conservation Division of Mines and Geology (1998), the historical highest groundwater is estimated to be at 95 feet below existing grade. Therefore, historical highest groundwater at a depth of 95 feet below existing grade will be used for liquefaction analysis.

Based on the above depth to the historically highest groundwater table at the site and the presence of generally dense to very dense soil below this depth, the project site is not considered susceptible to soil liquefaction during seismic events.

Seismically Induced Ground Settlement

In the absence of soil liquefaction, seismically induced ground settlement at the site, if any, should be small and negligible.

AS-BUILT FOUNDATION DATA

Based on the As-Built foundation plans (1957 and 1975), the existing foundation type of the abutments is spread footing at abutments and pier. The dimensions, bottom of footing elevation, and allowable bearing pressure of the existing footings are summarized in the following table (AESCO, August, 2002).

Foundation Plan for Vincent Avenue UC (1957)

Location	Footing Type & Dimensions m (ft)	Allowable Bearing Pressure kN/m^2 (tsf)	Bottom of Footing Elevation m (ft; MSL)
Abutment 1	Spread Footing 46.15 (151.4)L x 2.8 (9.3)W	unknown	116.13 (381)
Abutment 2	Spread Footing 46.15 (151.4)L x 2.8 (9.3)W	unknown	116.13 (381)

Foundation Plan for Vincent Avenue UC (1975)

Location	Footing Type & Dimensions m (ft)	Allowable Bearing Pressure kN/m^2 (tsf)	Bottom of Footing Elevation m (ft; MSL)
Abutment 1	Spread Footing 61.96 (203.3)L x 1.98 (6.5)W	191.52 (2)	115.82 (380) (EB)
Pier 2	Spread Footings 61.54 (201.9)L x 1.98 (6.5)W 7.19 (23.6)L x 1.52 (5)W (WB)	278.28 (3)	At or below 116.13 (381)
Abutment 3	Spread Footing 61.96 (203.3)L x 1.98 (6.5)W	191.52 (2)	115.96 (380.43)

GEOTECHNICAL RECOMMENDATIONS

Footing Type

Based on the preliminary foundation and design loads information provided by the project structural engineer, two feet (24 inches) diameter drilled shafts with a pile cap will be constructed at the proposed abutments and bent locations. Pile axial and lateral load capacities along with tip elevations are provided in the following sections. The following table summarizes the general foundation information for the proposed foundations at abutments and the bent.

General Foundation Information

Vincent Ave UC

Support No.	Design Method	Pile Type (Drilled Shaft)	Finished Grade Elevation (ft)	Cut-off Elevation (ft)	Pile Cap Size (ft)		Permissible settlement under Service Load (in)	Number of Piles Per Support
					B	L		
Abut 1	WSD	24”	386.84	381.63	10	14.5	1	6
Bent 2	LRFD	24”	387.12	382.04	9	14.0	1	6
Abut 3	WSD	24”	387.12	382.04	10	14.5	1	6

Vincent Ave On-Ramp

Support No.	Design Method	Pile Type (Drilled Shaft)	Finished Grade Elevation (ft)	Cut-off Elevation (ft)	Pile Cap Size (ft)		Permissible settlement under Service Load (in)	Number of Piles Per Support
					B	L		
Abut 1	WSD	24”	387.99	381.63	10	36	1	14
Bent 2	LRFD	24”	387.87	382.04	10	24	1	10
Abut 3	WSD	24”	388.19	382.04	10	36	1	14

Pile Design Parameters

Axial pile capacity calculations for the proposed abutments and bent provided in the table below are estimated based on friction resistance only.

Vincent Ave UC

Foundation Recommendations for Abutments

Support	Pile	Cut-off Elevation (ft)	LRFD Service-I Limit State Load (kips) per Support		LRFD Service-I Limit State Load (kips) per Pile (Compression)	Nominal Resistance (kips)	Design Tip Elevations (ft)*	Specified Tip Elevation (ft)
			Total	Permanent				
Abut 1	24" Drilled Shaft	381.63	707	481	180	360	355.63	355.0
Abut 3	24" Drilled Shaft	382.04	707	481	180	360	356.04	356.0

Note: * Design tip elevations are controlled by compression

Foundation Recommendations for Bent

Support Location	Pile Type	Cut-Off Elevation (ft)	Service-I Limit State Load (kips) per Support	Total Permissible Support Settlement (inches)	Required Factored Nominal Resistance (kips)				Design Tip Elevation (ft)*	Specified Tip Elevation (ft)
					Strength Limit		Extreme Limit			
					Comp. (φ = 0.7)	Tension (φ = 0.7)	Comp. (φ = 1. 0)	Tension (φ = 1.0)		
Bent 2	24" Drilled Shaft	382.04	580	1	1099 /support 212 max. / pile	0	560 /support 111 max. /pile	133/pile	356.0	356.0

Note: * Design tip elevations are controlled by compression

Pile Data Table

Location	Pile Type	Nominal Resistance (kips) per pile		Design Tip Elevation (ft)*	Specified Tip Elevation (ft)
		Compression	Tension		
Abut 1	24" Drilled Shaft	360	0	355.63	355.0
Bent 2	24" Drilled Shaft	300	140	356.04	356.0
Abut 3	24" Drilled Shaft	360	0	356.04	356.0

Note: * Design tip elevations are controlled by compression

Vincent Ave On-Ramp

Foundation Recommendations for Abutments

Support	Pile	Cut-off Elevation (ft)	LRFD Service-I Limit State Load (kips) per Support		LRFD Service-I Limit State Load (kips) per Pile (Compression)	Nominal Resistance (kips)	Design Tip Elevations (ft)*	Specified Tip Elevation (ft)
			Total	Permanent				
Abut 1	24" Drilled Shaft	381.63	1146	1000	144	290	361.63 (a) 356.63 (b)	356.0
Abut 3	24" Drilled Shaft	382.04	1146	1000	144	290	362.04 (a) 357.04 (b)	357.0

Note: * Design tip elevations are controlled by (a) compression, (b) lateral load

Foundation Recommendations for Bent

Support Location	Pile Type	Cut-Off Elevation (ft)	Service-I Limit State Load (kips) per Support	Total Permissible Support Settlement (inches)	Required Factored Nominal Resistance (kips)				Design Tip Elevation (ft)*	Specified Tip Elevation (ft)
					Strength Limit		Extreme Limit			
					Comp. (φ = 0.7)	Tension (φ = 0.7)	Comp. (φ = 1. 0)	Tension (φ = 1.0)		
Bent 2	24" Drilled Shaft	382.04	948	1	1488 /support 211 max. /pile	7	810 /support 286 max. /pile	151/pile	362.04 (a) 357.04 (b)	357.0

Note: * Design tip elevations are controlled by (a) compression, (b) lateral load

Pile Data Table

Location	Pile Type	Nominal Resistance (kips) per pile		Design Tip Elevation (ft)*	Specified Tip Resistance (ft)
		Compression	Tension		
Abut 1	24" Drilled Shaft	290	0	361.63 (a) 356.63 (b)	356.0
Bent 2	24" Drilled Shaft	300	151	362.04 (a) 357.04 (b)	357.0
Abut 3	24" Drilled Shaft	290	0	362.04 (a) 357.04 (b)	357.0

Note: * Design tip elevations are controlled by (a) compression, (b) lateral load

Group Effect

For drilled shaft concrete pile groups in cohesionless soil, the nominal axial resistance of the pile group shall be taken as the sum of the nominal resistance of all of the piles in the group multiplied by the group efficiency factor as follows:

Center to Center Pile Spacing	Group Efficiency Factor
2.5 D	0.65
3.0 D	0.77
3.5 D	0.88
4.0 D	1.0

Note: D: pile diameter

CONSTRUCTION CONSIDERATIONS

Pile Construction

The following recommendations are presented and should be followed where applicable.

- Drilled shaft installation should be performed in accordance with Section 49, Piling, of the Caltrans Standard Specifications (May 2006).
- Drilled shaft excavations should not be left open overnight.
- In the event of caving of soil or water seepage into the pile excavation, casing should be used. Casing may be pulled out as the pile excavation is filled with concrete.
- Drilled shaft construction sequence is important for pile groups with center-to-center (CTC) spacing equal to or less than three times of the pile diameter. Construction of adjacent shafts should be performed only after the concrete of the previously installed piles properly set and developed adequate strength.

APPENDICES

Appendix I: Site Map
Appendix II: ARS Curve

If you have any questions or comments, please contact Hung Po Yang (916) 227-4534.

Hung Po Yang, P.E.
Transportation Engineer–Civil
Branch A

Cc: Zareh Shahbazian, PM
Shira Rajendra, GS Corporate
Structure Construction R.E. Pending File
DES Office Engineer, Office of PS&E
Kristen Stahl, DME

Appendix I

Site Map

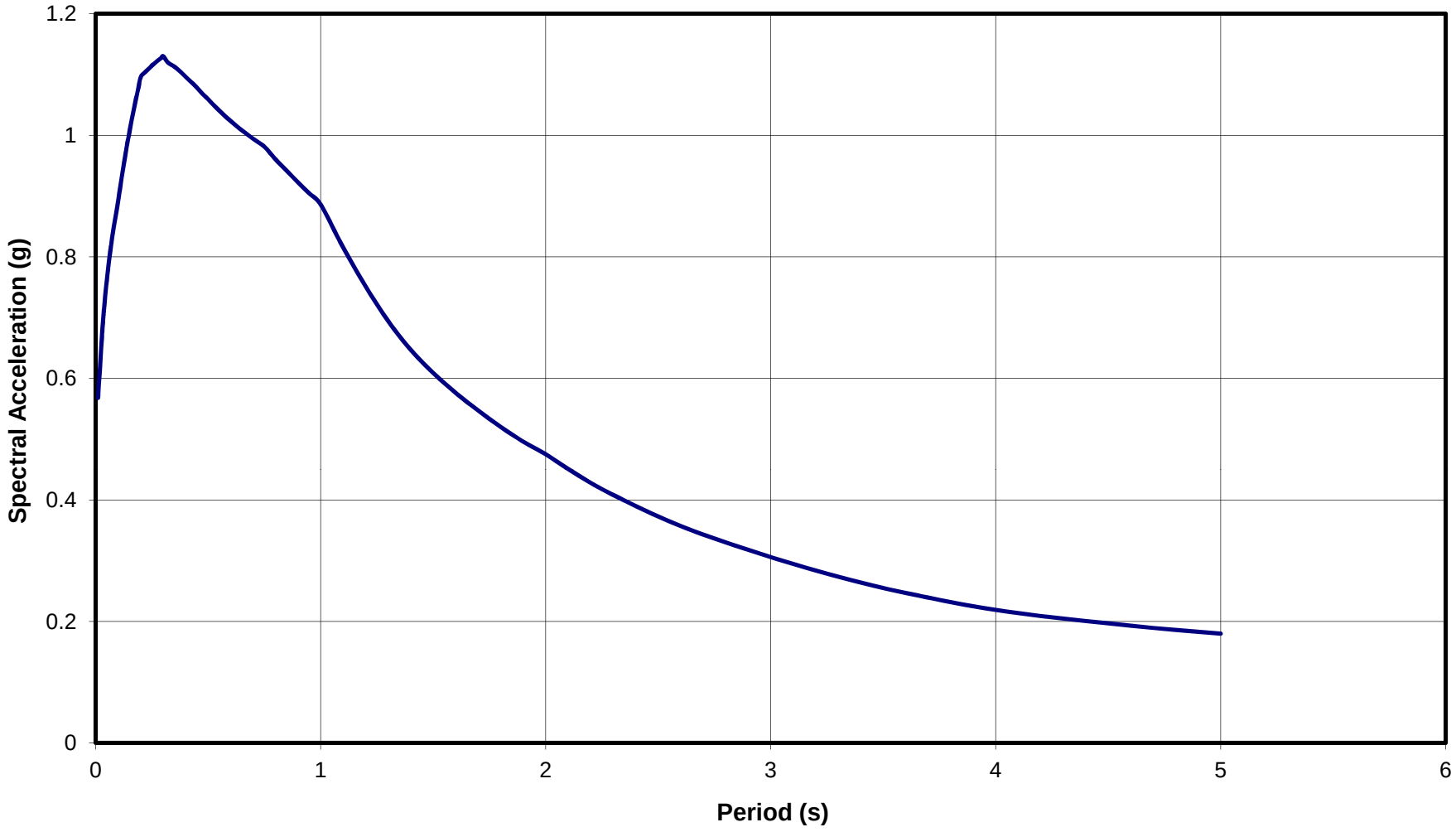
San Gabriel River Fwy
Live Oak Ave
Arrow Hwy
S Irwindale Ave
Irwindale
S Azusa Ave
Olive St
Vincent
Cypress St
Maine Ave
Los Angeles St
N Azusa Ave
W Badillo St
Baldwin Park
Pacific Ave
Root St
W Puente Ave
W Rowland Ave
Project Site
West Covina
Puente Ave
W Merced Ave
© 2010 Google
E Vine Ave
Google
Pointer lat 34.088425 lon -117.949474 elev 396 ft Streaming 100%
Eye alt 29407 ft

Site Map

Appendix II

ARS Curve

ARS Curve for Vincent Ave UC Widening Bridge No. 53-1043



FOR CONTRACT NO. 07-1170U4
PROJECT NO. 0700000085

INFORMATION HANDOUT

Foundation Report-Lark Ellen Avenue UC

ROUTE: 07-LA-10 33.2/37.2

State of California **Business, Transportation and Housing Agency**

M e m o r a n d u m

To : MR. Howard Ng – Branch Chief
Bridge Design Branch 20

Date: January 23, 2012

File No. 07-LA-10
PM 36.0/36.0
EA 07-1170U1
Br. # 53-2270

Attn. Mr. Jason Fang – Project Engineer

From : **DEPARTMENT OF TRANSPORTATION**
DIVISION OF ENGINEERING SERVICES
Geotechnical Services
Office of Geotechnical Design South-1

Subject : Foundation Report – Lark Ellen Avenue UC

PROJECT DESCRIPTION

The Route 10 (San Bernardino) Freeway is an eight lane freeway connecting the Los Angeles and San Bernardino County. The proposed project (PM 33.35/37.1) is to widen and re - stripe the freeway's eastbound and westbound directions from Puente Avenue in Baldwin Park to the Hollenbeck Street in West Covina. A 12 feet wide median High Occupancy Vehicle (HOV) lane will be added in each direction of the freeway. The freeway will also be widened on the outside shoulders to maintain four standard traffic lanes in each direction. This project includes widening seven bridges [Puente Avenue Undercrossing (Bridge No. 53-666); Cameron Avenue Undercrossing (Bridge No. 53-667); West Covina Parkway Undercrossing (Bridge No. 53-2372); Vincent Avenue Undercrossing (Bridge No. 53-1043); Lark Ellen Avenue Undercrossing (Bridge No. 53-2270); Azusa Avenue Separation (Bridge No. 53-669); and Hollenbeck Avenue Undercrossing (Bridge No. 53-2271)], and two new ramp structures.

The widening of existing Lark Ellen Avenue UC Bridge and constructing of soundwalls are part of the proposed project (Appendix I). This existing bridge is a three span CIP/PS box girder bridge and was built in 1975. The proposed works are to add the additional one HOV lane and soundwall in each direction. The widening width will be approximately 13.5 feet for both eastbound and westbound sides. Based on the information provided by project structural engineer, the PC/PS box girder is proposed for this widening construction to eliminate falsework and reduce site impact.

SCOPE OF WORK

Our scope of services for this geotechnical evaluation includes the following:

- Review of existing As-Built plans, drawings, and preliminary geotechnical reports pertinent to the subject site;
- Review of published historical groundwater levels;
- Subsurface exploration program consisting of two boreholes to a depth of approximately 110 feet;
- Selection of appropriate laboratory tests and laboratory testing;
- Evaluation of data obtained form the above items and engineering analyses to assess the potential for liquefaction and geological/geotechnical hazards at the subject site; and
- Preparation of this report describing the field investigation, summarizing the results of field testing, laboratory testing and engineering analyses, and providing appropriate conclusions and recommendations.

This foundation report supercedes the preliminary foundation report for addition of high occupancy vehicle lanes (HOV) on Route Interstate 10 from Puente Avenue to Citrus Avenue, Los Angeles County, California, prepared by AESCO, Inc., dated August 28, 2002.

FIELD INVESTIGATION AND TESTING PROGRAM

Previous Site Investigation

The Log Of Test Borings (LOTBs) from the previous subsurface exploration are provided as a part of the ”As-Built” plans, dated August 18, 1975 for the Lark Ellen Avenue UC project. Based on the “As-Built” LOTB, three rotary boreholes were advanced below existing ground surface to depths of approximately 61 to 77 feet.

Current Field Program

Subsurface exploration was performed on April 22 and 23, 2009 and consisted of advancing two boreholes to a maximum depth of approximately 100 feet below the existing grade. The boreholes were advanced using a truck-mounted CME-75 drill rig fitted with hollow stem augers.

The locations of the boreholes are shown on LOTBs. The logs of the boreholes together with the explanation of terms and symbols used are also presented on LOTBs.

Field testing consisted of the Standard Penetration Test (SPT). Sampling consisted of collection of samples from the SPT split spoon sampler. The SPT split spoon sampler, two inches outside diameter and 1 3/8 inches inside diameter, is driven 18 inches into soils and the number of blows required to drive the sampler the last 12 inches is recorded as the "N" value or SPT blow count. The driving energy is provided by a 140 pound hammer dropping 30 inches.

LABORATORY TESTING PROGRAM

The samples obtained during the subsurface exploration were assigned to the laboratory for visual examination and testing. The soils were classified in accordance with Soil and Rock Logging, Classification, and Presentation Manual, Caltrans June 2007.

The laboratory testing program consisted of corrosivity series tests (minimum resistivity and pH) on composite soil samples. The laboratory test results are presented in the section of Corrosion Evaluation of this report.

SITE GEOLOGY AND SUBSURFACE CONDITIONS

Physiography

The Site is located in the San Gabriel Valley, which is a broad, relatively flat to slightly sloping basin filled with Tertiary (65 million years) or younger sediments derived from surrounding hills and mountains. According to the United States Geological Survey's topographic map of the Baldwin Park 7.5-minute quadrangle, ground elevation varies from approximately 400 to 520 feet above mean sea level (amsl) between Vincent Avenue and Citrus Avenue. The area in the valley where the Site is located is regionally sloping approximately 0.01% to the southwest.

The San Gabriel Valley is bounded on the north by the San Gabriel Mountains which rise to greater than 10,000 feet amsl. South of the San Gabriel Valley, the Repetto Hills, Merced Hills, Puente Hills and San Jose Hills rise about 500 feet from the valley floor to separate the valley from the coastal plain. These hills bound the valley on the west, south and east.

Site Geology

The Site is underlain by artificial fill which may overly undifferentiated Quaternary young alluvial-fan deposits consisting of gravel, sand, silt and clay.

For this report, we reviewed the State of California, Department of Water Resources', Bulletin 104-2, Planned Utilization of Groundwater Basins, San Gabriel Valley, Appendix A: Geohydrology. Based on Plate 9A and Plate 10, cross section Z of that report, the Quaternary deposits may be as deep as 1500 feet thick through the center of the valley and approximately 500 feet in thickness through the project site.

Subsurface Conditions

The soils encountered at the project site during current subsurface exploration generally confirmed the soil conditions described on the "As-Built" LOTB dated August 18, 1975. The generalized stratigraphic profile at the borehole locations consisted of interbedded silty sand and sandy silt. The blow counts from the current drilling indicate that the silty sand layers are generally medium dense to very dense, and the underlying layers of sandy silt are generally medium dense to stiff at the borehole locations.

No ground water was encountered during current subsurface exploration and no piezometer well was installed to monitor groundwater level after drilling completion.

CORROSION EVALUATION

Minimum resistivity and pH tests were conducted on one sample at depths from 60 to 65 feet. The test results are summarized in the table below. Based on Caltrans Corrosion Guidelines, version 1.0, September 2003, the test results indicate that the subsoils at this site are considered non-corrosive.

Soil Corrosion Test Summary

Location	SIC Number	Minimum Resistivity (Ohm-Cm)	pH	Chloride Content (ppm)	Sulfate Content (ppm)
A-09-022	C702913	4456	7.64	N/A	N/A
A-09-023	C702914	4349	7.60	N/A	N/A

Note: Caltrans currently considers a site to be corrosive to foundation elements if one or more of the following conditions exist: Chloride concentration is greater than or equal to 500 ppm, sulfate concentration is greater than or equal to 2000 ppm, or the pH is 5.5.or less. It is the practice of Caltrans Corrosion Technology Section (with the exception of MSE Walls) if the minimum resistivity of the sample is greater than 1000 ohm-cm and the pH is greater than 5.5, the sample is considered to be noncorrosive.

SEISMIC RECOMMENDATIONS

Seismicity

The proposed bridge widening is located within a seismically active region of southern California, and close to a number of faults that are considered to be active or potentially active. According to the stratigraphy of the project site, a Soil Profile Type "D" with a shear wave velocity (v_{s30}) of 823 ft/s (251 m/s) is considered appropriate. Based on the Caltrans ARS online tool (2009), the proposed improvements are located 10 miles from north of the Puente Hills Blind Thrust. This fault is a reverse fault, for which the magnitude of the maximum credible earthquake (MCE) is 7.30. The design median peak ground acceleration (PGA) at all bridge locations is approximately 0.6g. Other nearby faults, including the Elsinore fault zone (Whittier section), would be expected to exert a lesser impact on the proposed improvement than the Puente Hills Blind Thrust. The Acceleration Response Spectra (ARS) Curve is presented in Appendix II.

Liquefaction

Liquefaction is a phenomenon in which loose, saturated, fine grained granular soils behave like a fluid when subjected to high intensity ground shaking. Liquefaction occurs when three general conditions exist: (1) shallow ground water; (2) low-density, fine, sandy soils; and, (3) high-intensity ground motion. Saturated, loose and medium dense, cohesionless soils exhibit the liquefaction potential, while dense cohesionless soil and cohesive soil exhibit the lowest, negligible liquefaction potential. Effects of liquefaction on ground surface include sand boils, settlement and lateral spreading.

According to the map of the Seismic Hazard Zones of Baldwin Quadrangle released on March 25, 1999, the project site is not situated within areas delineated as liquefaction zone. Based on the Seismic Hazard Zone Report for the Baldwin Park 7.5-Minute Quadrangle, Los Angeles County California from Department of Conservation Division of Mines and Geology (1998), the historical highest groundwater is estimated to be at 90 feet below existing grade. Therefore, historical highest groundwater at a depth of 90 feet below existing grade will be used for liquefaction analysis.

However, due to: 1) foundation soils are generally medium dense to very dense as interpreted from relatively high SPT "N" values; 2) the site is located outside areas delineated as liquefaction zone; and 3) groundwater level is deep. Therefore, liquefaction potential due to seismic event is considered very low.

Seismically Induced Settlement

Dynamic settlement often occurs when loose to medium dense granular soils are densified during ground shaking. Dynamic settlement due to earthquake shaking can occur in both unsaturated and saturated sands. Due to: 1) on site subsoils are medium dense to very dense; and 2) historical highest groundwater level is deep, the seismically induced settlement is considered to be very minor.

AS-BUILT FOUNDATION DATA

Based on the As-Built foundation plans (1975), the existing foundation type of the abutments is spread footing at abutments and isolated column footings at the bent. The dimensions, bottom of footing elevation, and allowable bearing pressure of the existing footings are summarized in the following table (AESCO, August, 2002).

Foundation Plan for Lark Ellen Avenue UC (1975)

Location	Footing Type & Dimensions m (ft)	Allowable Bearing Pressure kN/m^2 (tsf)	Bottom of Footing Elevation m (ft; MSL)
Abutment 1	Spread Footing 48.46 (159)L x 1.22 (4)W	143.64 (1.5)	128.63 (422)
Bent 2	Isolated Column Footings 4.57 (15)L x 3.05 (10)W At 7.92 (26) spacing	239.4 (2.5)	At or below 124.36 (408)
Bent 3	Isolated Column Footings 4.57 (15)L x 3.05 (10)W At 7.92 (26) spacing	239.4 (2.5)	At or below 124.36 (408)
Abutment 4	Spread Footing 48.46 (159)L x 1.22 (4)W	143.64 (1.5)	128.63 (422)

GEOTECHNICAL RECOMMENDATIONS

Footing Type

Based on the preliminary foundation and design loads information provided by the project structural engineer, two feet (24 inches) diameter drilled shafts and steel HP 14x89 batter piles with a pile cap will be constructed at the proposed abutments and bents locations, respectively. Pile axial and lateral load capacities along with tip elevations are provided in the following sections. The following table summarizes the general foundation information for the proposed foundations at abutments and the bents.

General Foundation Information

Support No.	Design Method	Pile Type	Finished Grade Elevation (ft)	Cut-off Elevation (ft)	Pile Cap Size (ft)		Permissible settlement under Service Load (in)	Number of Piles Per Support
					B	L		
Abut 1	WSD	24" Drilled Shaft	--	421.95	6	14.5	1	3
Bent 2	LRFD	HP 14x89 Driven Pile	--	410.29	14	14	1	8
Bent 3	LRFD	HP 14x89 Driven Pile	--	410.29	14	14	1	8
Abut 4	WSD	24" Drilled Shaft	--	422.95	6	14.5	1	3

Pile Design Parameters

Axial pile capacity calculations for the proposed abutments and bent provided in the table below are estimated based on friction resistance only.

Foundation Recommendations for Abutments

Support	Pile	Cut-off Elevation (ft)	LRFD Service-I Limit State Load (kips) per Support		LRFD Service-I Limit State Load (kips) per Pile (Compression)	Nominal Resistance (kips)	Design Tip Elevations (ft)*	Specified Tip Elevation (ft)
			Total	Permanent				
Abut 1	24" Drilled Shaft	421.95	245	169	82	164	395.95 (a) 391.95 (b)	392.0
Abut 4	24" Drilled Shaft	422.95	245	169	82	164	397.0 (a) 393.0 (b)	393.0

Note: * Design tip elevations are controlled by (a) compression, (b) lateral load

Foundation Recommendations for Bent

Support Location	Pile Type (Driven)	Cut-Off Elevation (ft)	Service-I Limit State Load (kips) per Support	Total Permissible Support Settlement (inches)	Required Factored Nominal Resistance (kips)				Design Tip Elevation (ft)*	Specified Tip Elevation (ft)
					Strength Limit		Extreme Limit			
					Comp. (φ = 0.7)	Tension (φ = 0.7)	Comp. (φ = 1. 0)	Tension (φ = 1.0)		
Bent 2	HP 14x89	410.29	782	1	1115 /support 162/pile	--	582 /support 341/pile	195/pile	359.0 (a) 361.0 (b)	359.0
Bent 3	HP 14x89	410.29	782	1	1115 /support 162/pile	--	582 /support 341/pile	195/pile	359.0 (a) 361.0 (b)	359.0

Note: * Design tip elevations are controlled by (a) compression, (b) lateral load

Pile Data Table

Location	Pile Type	Nominal Resistance (kips) per pile		Design Tip Elevation (ft)*	Specified Tip Elevation (ft)	Nominal Driving Resistance (kips)
		Compression	Tension			
Abut 1	24" Drilled Shaft	164	0	395.95 (a) 391.95 (b)	392.0	N/A
Bents 2, 3	Steel HP 14x89 Driven Pile	350	200	359.0 (a) 361.0 (b)	359.0	350
Abut 4	24" Drilled Shaft	164	0	397.0 (a) 393.0 (b)	393.0	N/A

Note: * Design tip elevations are controlled by (a) compression, (b) lateral load

Group Effect

For drilled shaft concrete pile groups in chosesionless soil, the nominal axial resistance of the pile group shall be taken as the sum of the nominal resistance of all of the piles in the group multiplied by the group efficiency factor as follows:

Center to Center Pile Spacing	Group Efficiency Factor
2.5 D	0.65
3.0 D	0.77
3.5 D	0.88
4.0 D	1.0

Note: D: pile diameter

For driven pile groups in cohesionless soil, the nominal axial resistance of the pile group shall be taken as the sum of the nominal resistance of all of the piles in the group. The efficiency factor shall be 1.0 where the pile cap is or is not in contact with ground for a center-to-center pile spacing of 2.5 diameters or greater.

CONSTRUCTION CONSIDERATIONS

The following recommendations are presented and should be followed where applicable.

Drilled Shaft Pile

- Drilled shaft excavations should not be left open overnight.

- In the event of caving of soil or water seepage into the pile excavation, casing should be used. Casing may be pulled as the pile excavation is filled with concrete.

- Pile construction sequence is important for pile groups with center-to-center (CTC) spacing equal to or less than three times of pile diameter. Construction of adjacent piles should be performed only after the Portland cement concrete of the previously installed piles properly set and developed adequate strength.

Driven Pile

- Hard driving resistance should be expected within the very dense sandy layers.

- Steel pile installation should be performed in accordance with Section 49, Piling, of the Caltrans Standard Specifications (May 2006).

- Pre-drilling, if needed, should be approved by the Engineer before pile construction.

APPENDICES

Appendix I: Site Map
Appendix II: ARS curve

If you have any questions or comments, please contact Hung Po Yang (916) 227-4534.

Hung Po Yang, P.E.
Transportation Engineer–Civil
Branch A

Cc: Zareh Shahbazian, PM
Shira Rajendra, GS Corporate
Structure Construction R.E. Pending File
DES Office Engineer, Office of PS&E
Kristen Stahl, DME

Appendix I

Site Map

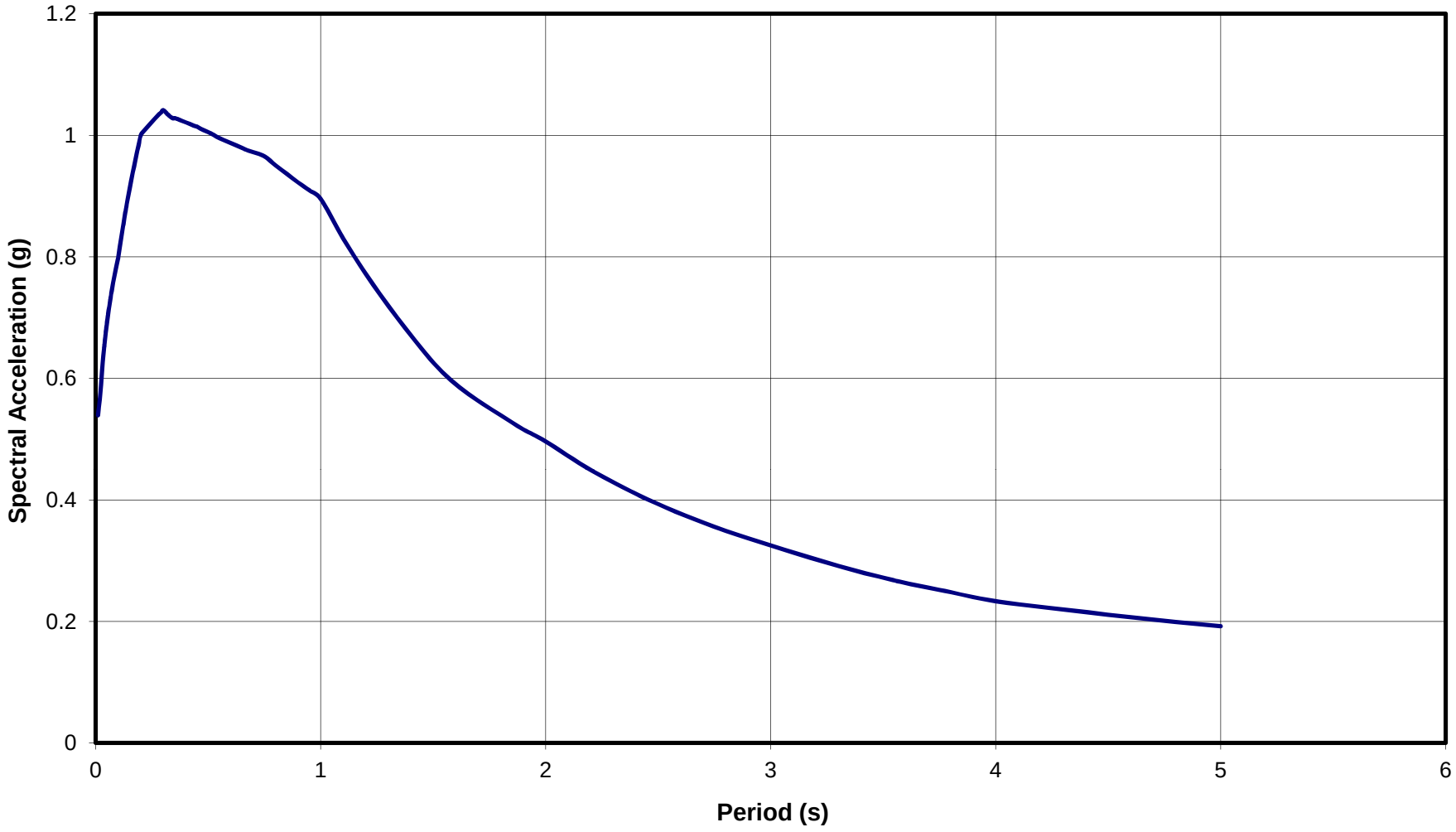
Buena Vista
San Gabriel River Fwy
Rivergrade Rd
Center St
Arrow Hwy
Irwindale
W Arrow Hwy
S Irwindale Ave
S Vernon Ave
Olive St
Azusa Canyon Rd
Vincent
Cypress St
E Cypress St
Los Angeles St
N Lark Ellen Ave
Baldwin Park
Pacific Ave
Root St
N Grange Ave
W Puente Ave
E Puente Ave
Ramona Blvd
W Rowland Ave
E Rowland Ave
Merced Ave
Francisquito Ave
Project Site
West Covina
Puente Ave
S Grange Ave
W Merced Ave
S Valinda Ave
S Lark Ellen Ave
S Azusa Ave
Amar Rd
N Puente Ave
© 2010 Google
E Vine Ave
Google
Pointer lat 34.088297° lon -117.956016° elev 387 ft Streaming 100%
Eye alt 27333 ft

Site Map

Appendix II

ARS Curve

ARS Curve for Lark Ellen Ave UC Widening Bridge No. 53-2270



FOR CONTRACT NO. 07-1170U4
PROJECT NO. 0700000085

INFORMATION HANDOUT

Foundation Report-Azusa Avenue UC-Draft for Structure PS&E

ROUTE: 07-LA-10 33.2/37.2

State of California **Business, Transportation and Housing Agency**

M e m o r a n d u m

To: MR. Howard Ng – Branch Chief
Bridge Design Branch 20

Date: December 9, 2011

File No. 07-LA-10-PM 36.5/36.5
EA 07-1170U1
Azusa Ave UC (Widen)
Br. # 53-0669

Attn.: Mr. Jason Fang
Project Engineer

From: **DEPARTMENT OF TRANSPORTATION**
DIVISION OF ENGINEERING SERVICES
Geotechnical Services
Office of Geotechnical Design South-1

Subject: Foundation Report – Azusa Avenue UC – Draft for Structure PS&E

PROJECT DESCRIPTION

The Route 10 (San Bernardino) Freeway is an eight lane freeway connecting the Los Angeles and San Bernardino County. The proposed project at PM 33.35/37.1 is to widen the freeway and strip and re-pave the existing lanes in both directions from Puente Avenue UC in the City of Baldwin Park to the Hollenbeck Avenue in the City of West Covina. A 12 feet wide median High Occupancy Vehicle (HOV) lane will be added in each direction of the freeway. The freeway will also be widened along the outside to maintain four standard traffic lanes in each direction. The overall project includes widening the following seven (7) bridges, Puente Avenue Undercrossing (Bridge No. 53-666), Cameron Avenue Undercrossing (Bridge No. 53-667), West Covina Parkway Undercrossing Bridge No. 53-2372), Vincent Avenue Undercrossing (Bridge No. 53-1043),Lark Ellen Avenue Undercrossing (Bridge No. 53-2270), Azusa Avenue Separation (Bridge No. 53-669); and Hollenbeck Avenue Undercrossing (Bridge No. 53-2271), and two new above-ground ramp structures.

The widening of existing Azusa Avenue UC Bridge is part of the proposed project (Appendix I). This existing two span, CIP/PS box girder, bridge was built in 1975. The proposed work is to add the additional one HOV lane in each direction. Based on the information provided by project structural engineer, the proposed widening bridge will be precast, prestressed simple span box girders made continuously by post-tensioning.

State of California **Business, Transportation and Housing Agency**

M e m o r a n d u m

To: MR. Howard Ng – Branch Chief
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Date: December 9, 2011

File No. 07-LA-10-PM 36.5/36.5
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Attn.: Mr. Jason Fang
Project Engineer

From: **DEPARTMENT OF TRANSPORTATION**
DIVISION OF ENGINEERING SERVICES
Geotechnical Services
Office of Geotechnical Design South-1

Subject: Foundation Report – Azusa Avenue UC

PROJECT DESCRIPTION

The Route 10 (San Bernardino) Freeway is an eight lane freeway connecting the Los Angeles and San Bernardino County. The proposed project at PM 33.35/37.1 is to widen the freeway and strip and re-pave the existing lanes in both directions from Puente Avenue UC in the City of Baldwin Park to the Hollenbeck Avenue in the City of West Covina. A 12 feet wide median High Occupancy Vehicle (HOV) lane will be added in each direction of the freeway. The freeway will also be widened along the outside to maintain four standard traffic lanes in each direction. The overall project includes widening the following seven (7) bridges, Puente Avenue Undercrossing (Bridge No. 53-666), Cameron Avenue Undercrossing (Bridge No. 53-667), West Covina Parkway Undercrossing Bridge No. 53-2372), Vincent Avenue Undercrossing (Bridge No. 53-1043),Lark Ellen Avenue Undercrossing (Bridge No. 53-2270), Azusa Avenue Separation (Bridge No. 53-669); and Hollenbeck Avenue Undercrossing (Bridge No. 53-2271), and two new above-ground ramp structures.

The widening of existing Azusa Avenue UC Bridge is part of the proposed project (Appendix I). This existing two span, CIP/PS box girder, bridge was built in 1975. The proposed work is to add the additional one HOV lane in each direction. Based on the information provided by project structural engineer, the proposed widening bridge will be precast, prestressed simple span box girders made continuously by post-tensioning.

SCOPE OF WORK

Our scope of services for this geotechnical evaluation includes the following:

- Review of available existing As-Built plans, drawings, and preliminary geotechnical reports pertinent to the subject site;
- Review of available published historical levels of groundwater table;
- Subsurface exploration program consisting of two boreholes drilled to a depth of approximately 110 feet;
- Selection of and performing of appropriate laboratory tests;
- Evaluation of the geotechnical data obtained from the above items, selection of geotechnical design parameters, and engineering analyses performed to assess the potential for liquefaction and others geological/geotechnical hazards at the subject site; and
- Preparation of this report describing the results of the field investigation, laboratory testing and engineering analyses, and providing appropriate conclusions and recommendations for the design and construction of foundations for the proposed structures.

This foundation report supercedes the preliminary foundation report for addition of high occupancy vehicle lanes (HOV) on Route Interstate 10 from Puente Avenue to Citrus Avenue, Los Angeles County, California, prepared by AESCO, Inc., dated August 28, 2002.

FIELD INVESTIGATION AND TESTING PROGRAM

Previous Site Investigation

The Log Of Test Borings (LOTBs) from the previous subsurface exploration are provided as a part of the ”As-Built” plans, dated August 18, 1975 for the Azusa Avenue separation project. Based on the “As-Built” LOTB, seven boreholes including five penetration and two rotary were advanced below existing ground surface to depths of approximately 20 to 85 feet.

Current Field Program

Subsurface exploration was performed on March 24 and 25, 2009 and consisted of advancing two boreholes to a maximum depth of approximately 110 feet below the existing grade. The boreholes were advanced using a truck-mounted CME-750 drill rig fitted with hollow stem augers.

The locations of the boreholes are shown on LOTBs. The logs of the boreholes together with the explanation of terms and symbols used are also presented on LOTBs.

Field testing consisted of the Standard Penetration Test (SPT). Sampling consisted of collection of samples from the SPT split spoon sampler. The SPT split spoon sampler, two inches outside diameter and 1-3/8 inches inside diameter, is driven 18 inches into soils and the number of blows required to drive the sampler the last 12 inches is recorded as the "N" value or SPT blow count. The driving energy is provided by a 140 pound hammer dropping 30 inches.

LABORATORY TESTING PROGRAM

The samples obtained during the subsurface exploration were assigned to the laboratory for visual examination and testing. The soils were classified in accordance with Soil and Rock Logging, Classification, and Presentation Manual, Caltrans June 2010.

The laboratory testing program consisted of corrosivity series tests (minimum resistivity and pH) on composite soil samples, particle-size analysis, and Atterberg Limits of soils.

SITE GEOLOGY AND SUBSURFACE CONDITIONS

Physiography

The Site is located in the San Gabriel Valley, which is a broad, relatively flat to slightly sloping basin filled with Tertiary (65 million years) or younger sediments derived from surrounding hills and mountains. According to the United States Geological Survey's topographic map of the Baldwin Park 7.5-minute quadrangle, ground elevation varies from approximately 400 to 520 feet above mean sea level (amsl) between Vincent Avenue and Citrus Avenue. The area in the valley where the Site is located is regionally sloping approximately 0.01% to the southwest.

The San Gabriel Valley is bounded on the north by the San Gabriel Mountains which rise to greater than 10,000 feet amsl. South of the San Gabriel Valley, the Repetto Hills, Merced Hills, Puente Hills and San Jose Hills rise about 500 feet from the valley floor to separate the valley from the coastal plain. These hills bound the valley on the west, south and east.

Site Geology

The Site is underlain by artificial fill which may overly undifferentiated Quaternary young alluvial-fan deposits consisting of gravel, sand, silt and clay.

For this report, we reviewed the State of California, Department of Water Resources', Bulletin 104-2, Planned Utilization of Groundwater Basins, San Gabriel Valley, Appendix A: Geohydrology. Based on Plate 9A and Plate 10, cross section Z of that report, the Quaternary deposits may be as deep as 1500 feet thick through the center of the valley and approximately 500 feet in thickness through the project site.

Subsurface Conditions

The soils encountered at the project site during current subsurface exploration generally confirmed the soil conditions described on the "As-Built" LOTB dated August 18, 1975. The generalized stratigraphic profile at the borehole locations consisted of sand overlying sand with silt and gravel. The blow counts from the current drilling indicate that the sand layers are generally medium dense to very dense, and the underlying layer of sand with silt and gravel are generally very dense at the borehole locations.

Ground water was not encountered within the borings drilled during the current subsurface exploration. Therefore, installation of piezometers or monitoring wells to monitor groundwater was not necessary at this site.

CORROSION EVALUATION

Minimum resistivity and pH tests were conducted on one sample at depths from 60 to 65 feet. The test results are summarized in the table below. Based on Caltrans Corrosion Guidelines, version 1.0, September 2003, the test results indicate that the subsoils at this site are considered non-corrosive.

Soil Corrosion Test Summary

Location	SIC Number	Minimum Resistivity (Ohm-Cm)	pH	Chloride Content (ppm)	Sulfate Content (ppm)
A-09-027	C702916	3472	7.58	N/A	N/A
A-09-028	C702917	1665	7.69	N/A	N/A

Note: Caltrans currently considers a site to be corrosive to foundation elements if one or more of the following conditions exist: Chloride concentration is greater than or equal to 500 ppm, sulfate concentration is greater than or equal to 2000 ppm, or the pH is 5.5.or less. It is the practice of Caltrans Corrosion Technology Section (with the exception of MSE Walls) if the minimum resistivity of the sample is greater than 1000 ohm-cm and the pH is greater than 5.5, the sample is considered to be noncorrosive.

SEISMIC RECOMMENDATIONS

Seismicity

The proposed bridge widening site is located within a seismically active region of Southern California, and close to a number of faults that are considered to be active for the purpose of bridge design. Based on the subsurface conditions, a Soil Profile Type "D" with an average shear wave velocity (V_{s30}) of 298 m/sec (978 ft/sec) for the upper 100 feet (or 30 m) is considered appropriate for the purpose of design ground motion evaluation .

Based on the Caltrans ARS Online Tool (2009), the proposed improvements are located about ten (10) miles north of the Puente Hills Blind Thrust. This fault, nearest from the site, is capable of generating a maximum earthquake (M_{max}) of moment magnitude 7.5. The design or the median peak ground acceleration (PGA) for this site is approximately 0.6g. Other nearby seismic sources, including the Elsinore Fault Zone (Whittier Section), are expected to generate lower ground motions than those presented herein for the Puente Hills Blind Thrust fault.

Liquefaction

Soil liquefaction is a phenomenon in which saturated loose to medium dense, predominantly granular soils lose most, if not all, of shear strength and stiffness due to the development of excess pore pressure when subjected to ground shaking.

Effects of liquefaction on ground surface include foundation settlement and reduction in bearing capacity, sand boils, and ground settlement and lateral spreading.

According to the map of the Seismic Hazard Zones of Baldwin Quadrangle released on March 25, 1999, the project site is not situated within areas delineated as liquefaction zone. The historical highest groundwater measured from monitoring wells (well number 3093E, 3102, and 3103, Los Angeles public Work, November 7, 1988) within a half mile radius of the project site is at an elevation of 344.6 feet above mean sea level (i.e. 132 feet below existing ground surface). Based on the Seismic Hazard Zone Report for the Baldwin Park 7.5-Minute Quadrangle, Los Angeles County, California from Department of Conservation Division of Mines and Geology (1998), the historical highest groundwater is estimated to be at 90 feet below existing grade. Therefore, historical highest groundwater at a depth of 90 feet below existing grade will be used for liquefaction analysis.

Based on the above depth to the historically highest groundwater table at the site and the presence of generally dense to very dense soil below this depth, the project site is not considered susceptible to soil liquefaction during seismic events.

Seismically Induced Settlement

In the absence of soil liquefaction, seismically induced ground settlement at the site, if any, should be small and negligible.

AS-BUILT FOUNDATION DATA

Based on the As-Built foundation plans (1975), the existing foundation type of the abutments is spread footing at abutments and isolated column footings at the bent. The dimensions, bottom of footing elevation, and allowable bearing pressure of the existing footings are summarized in the following table (AESCO, August, 2002).

Foundation Plan for Azusa Separation (1975)

Location	Footing Type & Dimensions m (ft)	Allowable Bearing Pressure kN/m^2 (tsf)	Bottom of Footing Elevation m (ft; MSL)
Abutment 1	Spread Footing 55.32 (181.5)L x 2.44 (8)W	287.28 (3.0)	133.2 (437)
Bent 2	Isolated Column Footings 3.81 (12.5)L x 3.66 (12.0)W At 8.08 (26.5) spacing	287.28 (3.0)	133.2 (437)
Abutment 3	Spread Footing 55.00 (180.4)L x 2.44 (8)W	287.28 (3.0)	133.2 (437)

GEOTECHNICAL RECOMMENDATIONS

Footing Type

Based on the preliminary foundation and design loads information provided by the project structural engineer, two feet (24 inches) diameter drilled shafts with a pile cap will be constructed at the proposed abutments and bent locations. Pile axial and lateral load capacities along with tip elevations are provided in the following sections. The following table summarizes the general foundation information for the proposed foundations at abutments and bent.

General Foundation Information

Support No.	Design Method	Pile Type (Drilled Shaft)	Finished Grade Elevation (ft)	Cut-off Elevation (ft)	Pile Cap Size (ft)		Permissible settlement under Service Load (in)	Number of Piles Per Support
					B	L		
Abut 1	WSD	24”	445.0	438.6	9	9 (WB) 14 (EB)	1	4
Bent 2	LRFD	24”	437.1	431.3	12 (WB) 16 (EB)	12 (WB) 16 (EB)	1	4 (WB) 8 (EB)
Abut 3	WSD	24”	445.0 (WB) 445.8 (EB)	439.6	9	9 (WB) 14 (EB)	1	4

Pile Design Parameters

Axial pile capacity calculations for the proposed abutments and bent provided in the table below are estimated based on friction resistance only.

Foundation Recommendations for Abutments

Support	Pile	Cut-off Elevation (ft)	LRFD Service-I Limit State Load (kips) per Support		LRFD Service-I Limit State Load (kips) per Pile (Compression)	Nominal Resistance (kips)	Design Tip Elevations (ft)*	Specified Tip Elevation (ft)
			Total	Permanent				
Abut 1	24” Drilled Shaft	438.6	270 (WB) 430 (EB)	187 (WB) 312 (EB)	84 (WB) 140 (EB)	168 (WB) 280 (EB)	418.6 (WB) (a) 413.6 (WB) (b) 409.6 (EB) (a) 413.6 (EB) (b)	413.0 (WB) 409.0 (EB)
Abut 3	24” Drilled Shaft	439.6	266 (WB) 482 (EB)	185 (WB) 312 (EB)	83 (WB) 140 (EB)	166 (WB) 280 (EB)	419.6 (WB) (a) 414.6 (WB) (b) 409.6 (EB) (a) 414.6 (EB) (b)	414.0 (WB) 409.0 (EB)

Note: * Design tip elevations are controlled by (a) compression, (b) lateral

Foundation Recommendations for Bent

Support Location	Pile Type	Cut-Off Elevation (ft)	Service-I Limit State Load (kips) per Support	Total Permissible Support Settlement (inches)	Required Factored Nominal Resistance (kips)				Design Tip Elevation (ft)*	Specified Tip Elevation (ft)
					Strength Limit		Extreme Limit			
					Comp. (φ = 0.7)	Tension (φ = 0.7)	Comp. (φ = 1. 0)	Tension (φ = 1.0)		
Bent 2	24” Drilled Shaft	431.3	483 (WB) 874 (EB)	1	767(WB) /support 254(WB) /pile 1402(EB) /support 226(EB) /pile	0	397(WB) /support 328(WB) /pile 667 (EB) /support 260 (EB) /pile	139 (WB) /pile 94 (EB) /pile	409.3 (a) 406.3 (b)	406.0

Note: * Design tip elevations are controlled by (a) compression, (b) lateral

Pile Data Table

Location	Pile Type	Nominal Resistance (kips) per pile		Design Tip Elevation (ft)*	Specified Tip Elevation (ft)
		Compression	Tension		
Abut 1	24" Drilled Shaft	170 (WB) 280 (EB)	0	418.6 (WB) (a) 413.6 (WB) (b) 409.6 (EB) (a) 413.6 (EB) (b)	413.0 (WB) 409.0 (EB)
Bent 2	24" Drilled Shaft	330 (WB) 260 (EB)	140 (WB) 100 (EB)	409.3 (a) 406.3 (b)	406.0
Abut 3	24" Drilled Shaft	170 (WB) 280 (EB)	0	419.6 (WB) (a) 414.6 (WB) (b) 409.6 (EB) (a) 414.6 (EB) (b)	414.0 (WB) 409.0 (EB)

Note: * Design tip elevations are controlled by (a) compression, (b) lateral

Group Effect

For drilled shaft concrete pile groups in cohesionless soil, the nominal axial resistance of the pile group shall be taken as the sum of the nominal resistance of all of the piles in the group multiplied by the group efficiency factor as follows:

Center to Center Pile Spacing	Group Efficiency Factor
2.5 D	0.65
3.0 D	0.77
3.5 D	0.88
4.0 D	1.0

Note: D: pile diameter

CONSTRUCTION CONSIDERATIONS

Pile Construction

The following recommendations are presented and should be followed where applicable.

- Drilled shaft installation should be performed in accordance with Section 49, Piling, of the Caltrans Standard Specifications (May 2006).
- Drilled shaft excavations should not be left open overnight.

- In the event of caving of soil or water seepage into the pile excavation, casing should be used. Casing may be pulled out as the pile excavation is filled with concrete.

- Drilled shaft construction sequence is important for pile groups with center-to-center (CTC) spacing equal to or less than three times of the pile diameter. Construction of adjacent shafts should be performed only after the concrete of the previously installed piles properly set and developed adequate strength.

APPENDICES

Appendix I: Site Map
Appendix II: ARS Curve

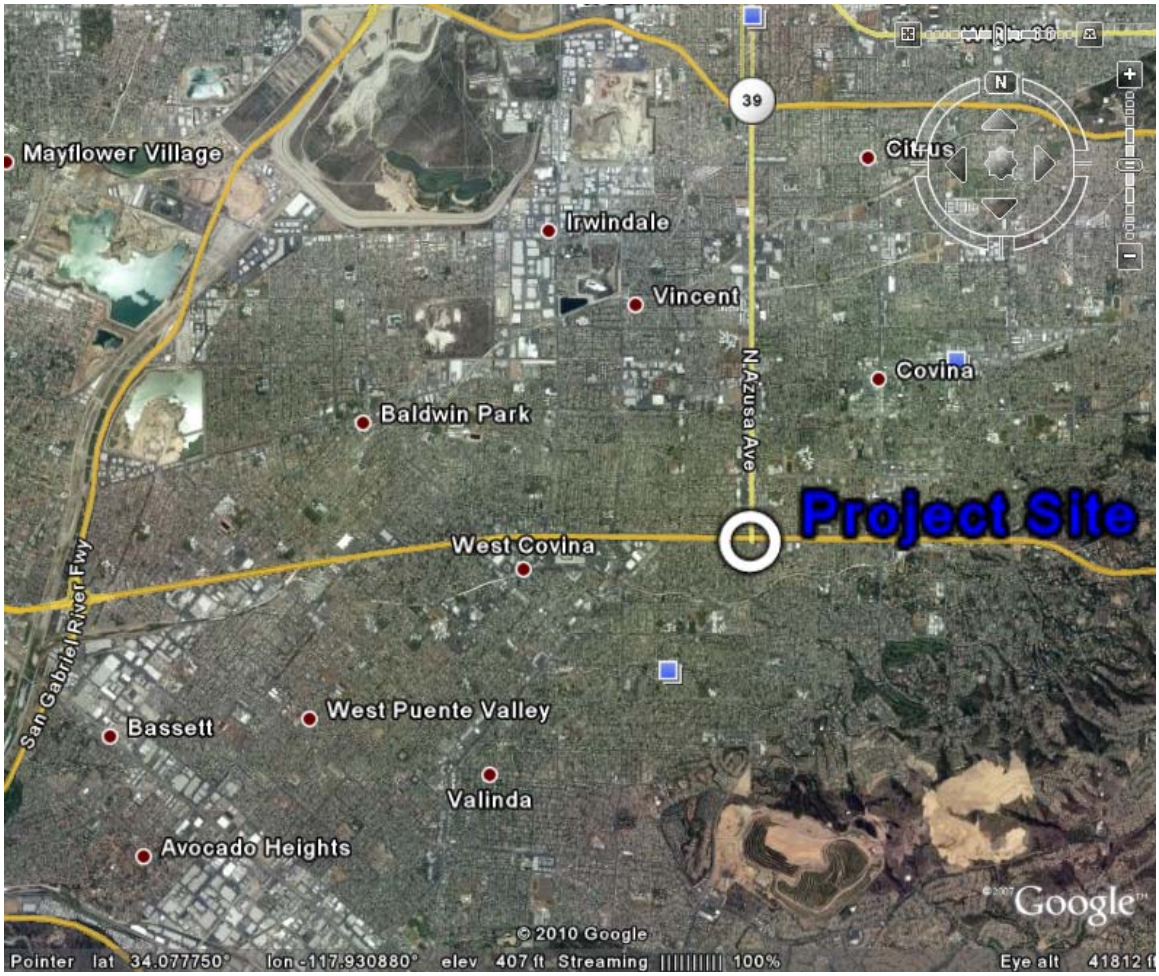
If you have any questions or comments, please contact Hung Po Yang (916) 227-4534.

Hung Po Yang, P.E.
Transportation Engineer–Civil
Branch A

Cc: Zareh Shahbazian, PM
Shira Rajendra, GS Corporate
Structure Construction R.E. Pending File
DES Office Engineer, Office of PS&E
Kristen Stahl, DME

Appendix I

Site Map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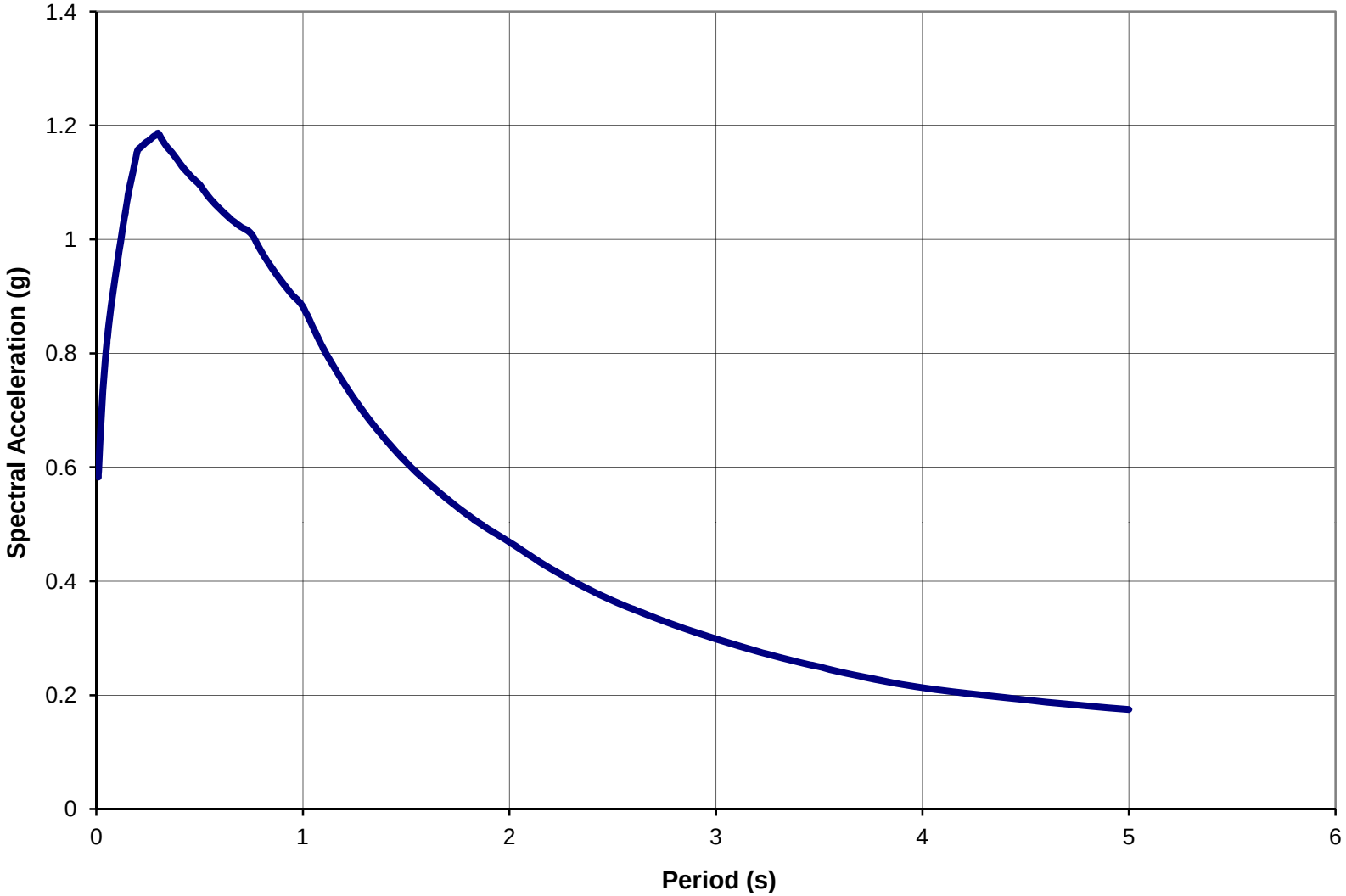
39
Citrus
Irwindale
Vincent
Covina
N Azusa Ave
Baldwin Park
Project Site
West Covina
San Gabriel River Fwy
West Puente Valley
Bassett
Valinda
Avocado Heights
Google
© 2010 Google
Pointer lat 34.077750° lon -117.930880° elev 407 ft Streaming 100%
Eye alt 41812 ft

Site Map

Appendix II

ARS Curve

ARS Curve for Azusa UC Widening Bridge No. 53-669



FOR CONTRACT NO. 07-1170U4
PROJECT NO. 0700000085

INFORMATION HANDOUT

Foundation Report-Hollenbeck Avenue UC

ROUTE: 07-LA-10 33.2/37.2

State of California **Business, Transportation and Housing Agency**

M e m o r a n d u m

To : MR. Howard Ng – Branch Chief
Bridge Design Branch 20

Attn.: Mr. Jason Fang
Project Engineer

Date: January 23, 2012

File No.: 07-LA-10-PM 37.1/37.1
EA 07-1170U1
Hollenbeck Ave UC (Widen)
Br. # 53-2271

From: **DEPARTMENT OF TRANSPORTATION**
DIVISION OF ENGINEERING SERVICES
Geotechnical Services
Office of Geotechnical Design South-1

Subject: Foundation Report – Hollenbeck Avenue UC

PROJECT DESCRIPTION

The Route 10 (San Bernardino) Freeway is an eight lane freeway connecting the Los Angeles and San Bernardino County. The proposed project at PM 33.35/37.1 is to widen the freeway and strip and re-pave the existing lanes in both directions from Puente Avenue UC in the City of Baldwin Park to the Hollenbeck Avenue in the City of West Covina. A 12 feet wide median High Occupancy Vehicle (HOV) lane will be added in each direction of the freeway. The freeway will also be widened along the outside to maintain four standard traffic lanes in each direction. The overall project includes widening the following seven (7) bridges, Puente Avenue Undercrossing (Bridge No. 53-666), Cameron Avenue Undercrossing (Bridge No. 53-667), West Covina Parkway Undercrossing Bridge No. 53-2372), Vincent Avenue Undercrossing (Bridge No. 53-1043),Lark Ellen Avenue Undercrossing (Bridge No. 53-2270), Azusa Avenue Separation (Bridge No. 53-669); and Hollenbeck Avenue Undercrossing (Bridge No. 53-2271), and two new above-ground ramp structures.

The widening of existing Hollenbeck Avenue UC Bridge and constructing of soundwall are part of the proposed project (Appendix I). This existing freeway bridge is a three span CIP/PS box girder bridge was built in 1975. The proposed work is to add the additional one HOV lane in each direction. The widening width will be approximately 13.5 feet for both eastbound and westbound sides. A new 12 feet high soundwall will be added on the eastbound widened portion.

Based on the information provided by project structural engineer, the PC/PS box girder is proposed for this widening construction to eliminate falsework and reduce site impact.

SCOPE OF WORK

Our scope of services for this geotechnical evaluation includes the following:

- Review of available existing As-Built plans, drawings, and preliminary geotechnical reports pertinent to the subject site;
- Review of available published historical levels of groundwater table;
- Subsurface exploration program consisting of two boreholes drilled to a depth of approximately 110 feet;
- Selection of and performing of appropriate laboratory tests;
- Evaluation of the geotechnical data obtained from the above items, selection of geotechnical design parameters, and engineering analyses performed to assess the potential for liquefaction and others geological/geotechnical hazards at the subject site; and
- Preparation of this report describing the results of the field investigation, laboratory testing and engineering analyses, and providing appropriate conclusions and recommendations for the design and construction of foundations for the proposed structures.

This foundation report supercedes the preliminary foundation report for addition of high occupancy vehicle lanes (HOV) on Route Interstate 10 from Puente Avenue to Citrus Avenue, Los Angeles County, California, prepared by AESCO, Inc., dated August 28, 2002.

FIELD INVESTIGATION AND TESTING PROGRAM

Previous Site Investigation

The Log Of Test Borings (LOTBs) from the previous subsurface exploration are provided as a part of the ”As-Built” plans, dated August 18, 1975 for the Hollenbeck Avenue UC project. Based on the “As-Built” LOTB, three (3) rotary boreholes were advanced below existing ground surface to depths of approximately 66 to 71 feet.

Current Field Program

Subsurface exploration was performed on April 28 and 29, 2009 and consisted of advancing two boreholes to a maximum depth of approximately 110 feet below the existing grade. The boreholes were advanced using a truck-mounted CME-75 drill rig fitted with hollow stem augers.

The locations of the boreholes are shown on LOTBs. The logs of the boreholes together with the explanation of terms and symbols used are also presented on LOTBs.

Field testing consisted of the Standard Penetration Test (SPT). Sampling consisted of collection of samples from the SPT split spoon sampler. The SPT split spoon sampler, two inches outside diameter and 1 3/8 inches inside diameter, is driven 18 inches into soils and the number of blows required to drive the sampler the last 12 inches is recorded as the "N" value or SPT blow count. The driving energy is provided by a 140 pound hammer dropping 30 inches.

LABORATORY TESTING PROGRAM

The samples obtained during the field investigation were returned to the laboratory for visual examination and testing. The soils were classified in accordance with Soil and Rock Logging, Classification, and Presentation Manual, Caltrans June 2007.

The laboratory testing program consisted of corrosivity series tests (minimum resistivity and pH) on composite soil samples and Atterberg Limits of soils.

SITE GEOLOGY AND SUBSURFACE CONDITIONS

Physiography

The project site is located within the San Gabriel Valley, in Southern California, which is a broad, relatively flat to slightly sloping basin filled with Tertiary (65 million years) or younger sediments derived from surrounding hills and mountains. According to the United States Geological Survey's topographic map of the Baldwin Park 7.5-minute quadrangle, ground elevation between Vincent Avenue UC and Citrus Avenue UC varies from approximately 400 to 520 feet above Mean Sea Level (MSL). The general site area is sloping approximately 0.01% to the southwest.

The San Gabriel Valley is bounded on the north by the San Gabriel Mountains which rise to greater than 10,000 feet above MSL. South of the San Gabriel Valley, the Repetto Hills, Merced Hills, Puente Hills and San Jose Hills rise about 500 feet from the valley floor to separate the valley from the coastal plain. These hills bound the valley on the west, south and east.

Site Geology

The Site is underlain by artificial fill which may overly undifferentiated Quaternary young alluvial-fan deposits consisting of gravel, sand, silt and clay.

For this report, we reviewed the State of California, Department of Water Resources', Bulletin 104-2, Planned Utilization of Groundwater Basins, San Gabriel Valley, Appendix A: Geohydrology. Based on Plate 9A and Plate 10, cross section Z of that report, the Quaternary deposits may be as deep as 1500 feet thick through the center of the valley and approximately 500 feet in thickness through the project site.

Subsurface Conditions

The soils encountered at the project site during current subsurface exploration generally confirmed the conditions described on the above-referenced 1975 "As-Built" LOTBs. The generalized stratigraphic profile at the borehole locations consisted of sand overlying sandy silt and silty sand. The blow counts from the current drilling indicate that the sand layer is generally medium dense to very dense, and the underlying layer of sandy silt are generally medium dense to dense at the borehole locations.

Ground water was not encountered within the borings drilled during the current subsurface exploration. Therefore, installation of piezometers or monitoring wells to monitor groundwater was not necessary at this site.

CORROSION EVALUATION

Minimum resistivity and pH tests were conducted on one sample at depths from 60 to 65 feet. The test results are summarized in the table below. Based on Caltrans Corrosion Guidelines, version 1.0, September 2003, the test results indicate that the subsoils at this site are considered non-corrosive.

Soil Corrosion Test Summary

Location	SIC Number	Minimum Resistivity (Ohm-Cm)	pH	Chloride Content (ppm)	Sulfate Content (ppm)
A-09-031	C702918	3946	7.67	N/A	N/A
A-09-032	C702919	3071	7.61	N/A	N/A

Note: Caltrans currently considers a site to be corrosive to foundation elements if one or more of the following conditions exist: Chloride concentration is greater than or equal to 500 ppm, sulfate concentration is greater than or equal to 2000 ppm, or the pH is 5.5.or less. It is the practice of Caltrans Corrosion Technology Section (with the exception of MSE Walls) if the minimum resistivity of the sample is greater than 1000 ohm-cm and the pH is greater than 5.5, the sample is considered to be noncorrosive.

SEISMIC RECOMMENDATIONS

Seismicity

The proposed bridge widening site is located within a seismically active region of Southern California, and close to a number of faults that are considered to be active for the purpose of bridge design. Based on the subsurface conditions, a Soil Profile Type "D" with an average shear wave velocity (V_{s30}) of 287 m/sec (942 ft/sec) for the upper 100 feet (or 30 m) is considered appropriate for the purpose of design ground motion evaluation .

Based on the Caltrans ARS Online Tool (2009), the proposed improvements are located about ten (10) miles north of the Puente Hills Blind Thrust. This fault, nearest from the site, is capable of generating a maximum earthquake (M_{max}) of moment magnitude 7.5. The design or the median peak ground acceleration (PGA) for this site is approximately 0.6g. Other nearby seismic sources, including the Elsinore Fault Zone (Whittier Section), are expected to generate lower ground motions than those presented herein for the Puente Hills Blind Thrust fault.

Soil Liquefaction

Soil liquefaction is a phenomenon in which saturated loose to medium dense, predominantly granular soils lose most, if not all, of shear strength and stiffness due to the development of excess pore pressure when subjected to ground shaking.

Effects of liquefaction on ground surface include foundation settlement and reduction in bearing capacity, sand boils, and ground settlement and lateral spreading.

According to the map of the Seismic Hazard Zones of Baldwin Quadrangle, Los Angeles County, released by the California Geological Survey (CGS) on March 25, 1999, the project site is not situated within areas delineated as liquefaction susceptible. Based on the Seismic Hazard Zone Report associated with the above-referenced map, the historical highest level of the groundwater table is estimated to be at 90 feet below existing grade. Therefore, historical highest groundwater at a depth of 90 feet below existing grade will be used for liquefaction analysis.

Based on the above depth to the historically highest groundwater table at the site and the presence of generally dense to very dense soil below this depth, the project site is not considered susceptible to soil liquefaction during seismic events.

Seismically Induced Ground Settlement

In the absence of soil liquefaction, seismically induced ground settlement at the site, if any, should be small and negligible.

CONSIDERED AS-BUILT FOUNDATION DATA

Based on the As-Built Foundation Plans (1975), the existing bridge abutment and the bent columns are supported on strip and isolated spread footings, respectively.

The dimensions, bottom elevation, and the design allowable bearing pressure of the existing footings are summarized in the following table (AESCO, August, 2002).

Foundation Plan for Hollenbeck Avenue UC (1975)

Location	Footing Type & Dimensions m (ft)	Allowable Bearing Pressure kN/m^2 (tsf)	Bottom of Footing Elevation m (ft; MSL)
Abutment 1	Spread (Strip) Footing 48.46 (159)L x 1.22 (4)W	Allowable 143.64 (1.5) Design 114.9 (1.2)	140.82 (462)
Bent 2	Spread (Isolated Column) Footings 4.57 (15)L x 3.05 (10)W At 7.92 (26) spacing	239.4 (2.5)	137.2 (450)
Bent 3	Spread (Isolated Column) Footings 4.57 (15)L x 3.05 (10)W At 7.92 (26) spacing	239.4 (2.5)	137.2 (450)
Abutment 4	Spread (Strip) Footing 48.46 (159)L x 1.22 (4)W	Allowable 143.64 (1.5) Design 114.9 (1.2)	141.12 (463)

Note: The design allowable bearing pressures correspond to the lower of the permissible pressure limited by the footing settlement and the ultimate bearing capacity divided by a factor of safety , FS (usually FS=3).

GEOTECHNICAL RECOMMENDATIONS

Footing Type

Based on the preliminary foundation and design loads information provided by the project structural engineer, two feet (24 inches) diameter Cast-In-Drilled Hole (CIDH) or drilled shafts and driven steel HP 14x89 piles with a pile cap will used to support the proposed widening at the abutments and bents locations, respectively. Some of the bent steel HP piles will be constructed at a batter. Pile axial and lateral load capacities along with tip elevations are provided in the following sections. The following table

summarizes the general foundation information for the proposed foundations at abutments and the bents.

General Foundation Information

Support No.	Design Method	Pile Type	Finished Grade Elevation (ft)	Cut-off Elevation (ft)	Pile Cap Size (ft)		Permissible settlement under Service Load (in)	Number of Piles Per Support
					B	L		
Abut 1	WSD	24" Drilled Shaft	--	462.55	6	14.5	1	3
Bent 2	LRFD	HP 14x89 Driven Pile	--	450.92	14	14	1	8
Bent 3	LRFD	HP 14x89 Driven Pile	--	450.92	14	14	1	8
Abut 4	WSD	24" Drilled Shaft	--	463.55	6	14.5	1	3

Pile Design Parameters

Axial pile capacity calculations for the proposed abutments and bents provided in the table below are estimated based on friction resistance only.

Foundation Recommendations for Abutments

Support	Pile	Cut-off Elevation (ft)	LRFD Service-I Limit State Load (kips) per Support		LRFD Service-I Limit State Load (kips) per Pile (Compression)	Nominal Resistance (kips)	Design Tip Elevations (ft)*	Specified Tip Elevation (ft)
			Total	Permanent				
Abut 1	24" Drilled Shaft	462.55	245	169	82	164	434.55 (a) 432.55 (b)	432.0
Abut 4	24" Drilled Shaft	463.55	245	169	82	164	435.55 (a) 433.55 (b)	433.0

Note: * Design tip elevations are controlled by (a) compression, (b) lateral load

Foundation Recommendations for Bent

Support Location	Pile Type	Cut-Off Elevation (ft)	Service-I Limit State Load (kips) per Support	Total Permissible Support Settlement (inches)	Required Factored Nominal Resistance (kips)				Design Tip Elevation (ft)*	Specified Tip Elevation (ft)
					Strength Limit		Extreme Limit			
					Comp. (φ = 0.7)	Tension (φ = 0.7)	Comp. (φ = 1. 0)	Tension (φ = 1.0)		
Bents 2, 3	HP 14x89 Driven Pile	450.92	782	1	1115 /support 162 /pile	N/A	582 /support 341/pile	195/pile	405.0 (a) 414.0 (b)	405.0

Note: * Design tip elevations are controlled by (a) compression, (b) lateral load

Pile Data Table

Location	Pile Type	Nominal Resistance (kips) per pile		Design Tip Elevation (ft)*	Specified Tip Elevation (ft)	Nominal Driving Resistance (kips)
		Compression	Tension			
Abut 1	24" Drilled Shaft	164	0	434.55 (a) 432.55 (b)	432.0	N/A
Bents 2, 3	Steel HP 14x89 Driven Pile	350	200	405.0 (a) 414.0 (b)	405.0	350
Abut 4	24" Drilled Shaft	164	0	435.55 (a) 433.55 (b)	433.0	N/A

Note: * Design tip elevations are controlled by (a) compression, (b) lateral load

Group Effect

For Drilled Shaft concrete pile groups in cohesionless soil, the nominal axial resistance of the pile group shall be taken as the sum of the nominal resistance of all of the piles in the group multiplied by the group efficiency factor as follows:

Center to Center Pile Spacing	Group Efficiency Factor
2.5 D	0.65
3.0 D	0.77
3.5 D	0.88
4.0 D	1.0

Note: D: pile diameter

For driven pile groups in cohesionless soil, the nominal axial resistance of the pile group shall be taken as the sum of the nominal resistance of all of the piles in the group. The efficiency factor shall be 1.0 where the pile cap is or is not in contact with ground for a center-to-center pile spacing of 2.5 diameters or greater.

CONSTRUCTION CONSIDERATIONS

The following recommendations are presented and should be followed where applicable.

Drilled Shaft Pile

- Drilled shaft installation should be performed in accordance with Section 49, Piling, of the Caltrans Standard Specifications (May 2006).
- Drilled shaft excavations should not be left open overnight.

- In the event of caving of soil or water seepage into the pile excavation, casing should be used. Casing may be pulled out as the pile excavation is filled with concrete.

- Drilled shaft construction sequence is important for pile groups with center-to-center (CTC) spacing equal to or less than three times of the pile diameter. Construction of adjacent shafts should be performed only after the concrete of the previously installed piles properly set and developed adequate strength.

Driven Pile

- Hard driving resistance should be expected within the very dense sandy layers.

- Steel pile installation should be performed in accordance with Section 49, Piling, of the Caltrans Standard Specifications (May 2006).

APPENDICES

Appendix I: Site Map
Appendix II: ARS Curve

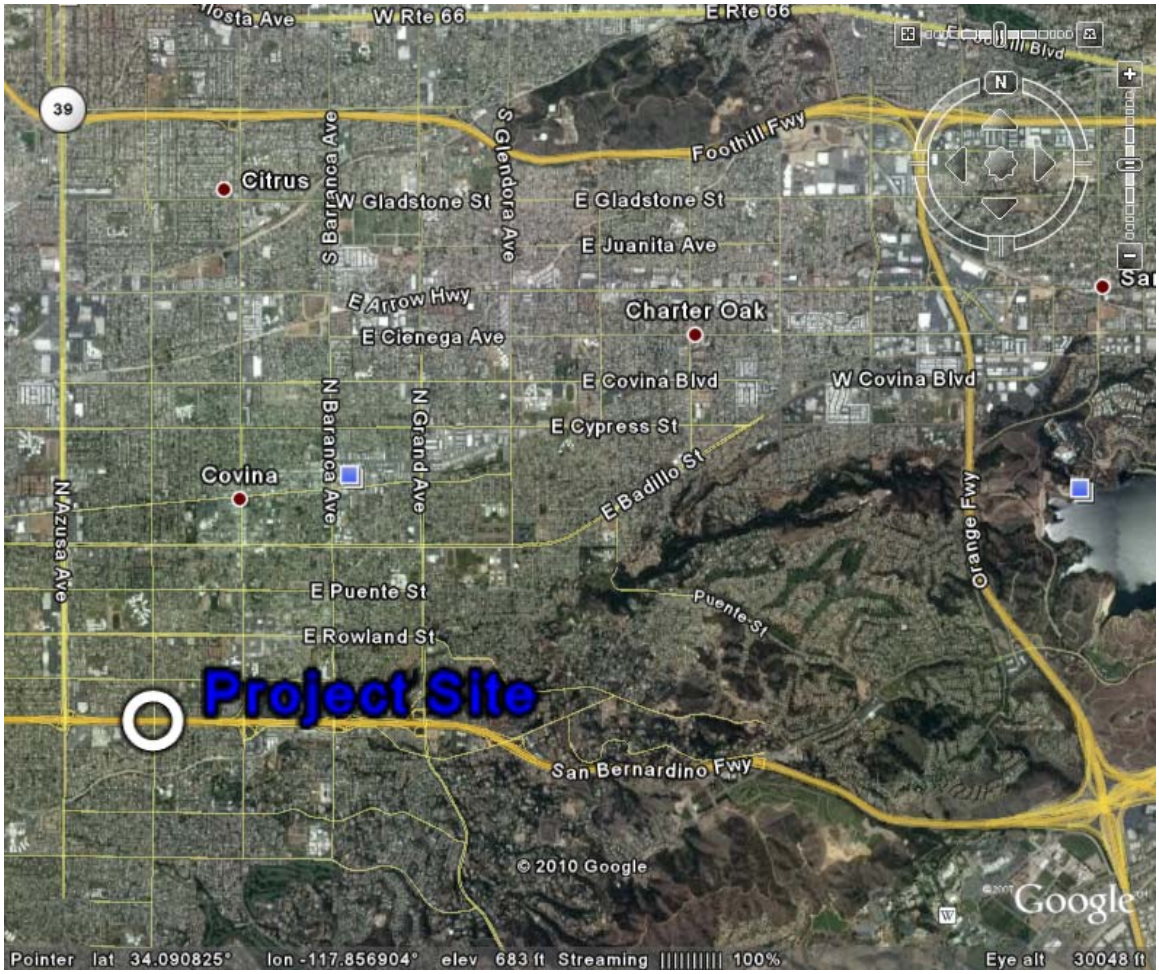
If you have any questions or comments, please contact Hung Po Yang (916) 227-4534.

Hung Po Yang, P.E.
Transportation Engineer–Civil
Branch A

Cc: Zareh Shahbazian, PM
Shira Rajendra, GS Corporate
Structure Construction R.E. Pending File
DES Office Engineer, Office of PS&E
Kristen Stahl, DME

Appendix I

Site Map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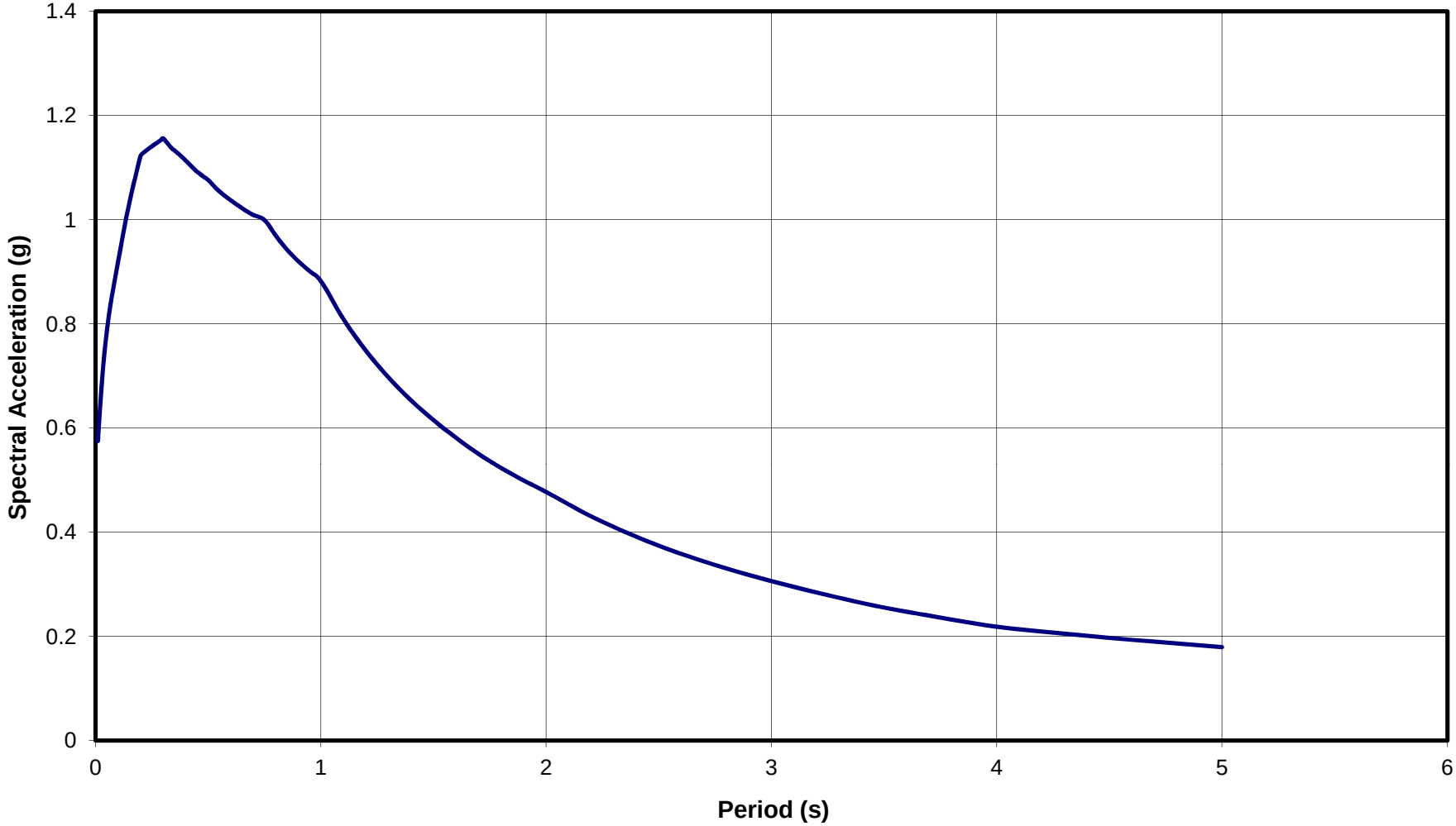
Citrus
S Barranca Ave
S Glendora Ave
W Gladstone St
E Gladstone St
E Juanita Ave
E Arrow Hwy
Charter Oak
E Cienega Ave
E Covina Blvd
W Covina Blvd
E Cypress St
N Barranca Ave
N Grand Ave
Covina
E Badillo St
N Azusa Ave
Orange Fwy
E Puente St
Puente St
E Rowland St
Project Site
San Bernardino Fwy
© 2010 Google
Google
Pointer lat 34.090825° lon -117.856904° elev 683 ft Streaming 100%
Eye alt 30048 ft

Site Map

Appendix II

ARS Curve

ARS Curve for Hollenbeck St UC Widening Bridge No. 53-2271



FOR CONTRACT NO. 07-1170U4
PROJECT NO. 0700000085

INFORMATION HANDOUT

Foundation Recommendation - Culvert Extension near Sta. 1759+00

ROUTE: 07-LA-10 33.2/37.2

M e m o r a n d u m

To: MR. Howard Ng – Branch Chief
Bridge Design Branch 20

Date: January 23, 2012

File No. 07-LA-10-PM 33.4/33.4
EA 07-1170U1
I-10 HOV Lane

Attn.: Mr. Edward Mu
Project Engineer

From: **DEPARTMENT OF TRANSPORTATION**
DIVISION OF ENGINEERING SERVICES
Geotechnical Services
Office of Geotechnical Design South-1

Subject: Foundation Recommendation – Culvert Extension near Sta. 1759 + 00

INTRODUCTION

This memo addresses the foundation recommendations for a proposed 44-foot long sound wall section across an existing box culvert at about 90 feet right of I-10, Stationing 1759 + 00.

This section of sound wall is part of the proposed sound wall #1758 of I-10 HOV Widening project. This wall section will be constructed on top of a modified Concrete Barrier Type 736SV supported by two drilled shafts. The dimensions of the barrier are approximately 43.5 feet long, four (4) feet wide, and four (4) feet deep.

Subsurface exploration was not performed at the proposed wall location. However, one borehole, A-09-002, was drilled for the proposed Puente Ave UC bridge (Reference 1) on Puente Ave (about 100 feet southeast of project site). Therefore, subsurface material information of this borehole will be used for the proposed shaft design.

Other information regarding subsurface exploration, geology, laboratory testing, and construction recommendations of shaft can be found in the Geotechnical Design Report for Sound Walls and Retaining Walls.

GEOTECHNICAL RECOMMENDATIONS

Foundation Type

Based on the foundation and design loads information provided by the project structural engineer, two - 30 inch diameter drilled shafts with a pile cap (modified concrete barrier) will be constructed to support sound wall. Pile axial load capacities along with tip

elevations are provided in the following sections. The following table summarizes the general information for the proposed foundation.

General Foundation Information

Support No.	Design Method	Pile Type (Drilled Shaft)	Finished Grade Elevation (ft)	Cut-off Elevation (ft)	Pile Cap Size (ft)		Permissible settlement under Service Load (in)	Number of Piles Per Support
					B	L		
Pile 1	LRFD	30”	349.4	348.8	4	43.5	1	2
Pile 2			349.5	348.9				

Pile Design Parameters

Axial pile capacity calculations for the proposed wall provided in the table below are estimated based on friction resistance only.

Foundation Recommendations

Support Location	Pile Type	Cut-Off Elevation (ft)	Service-I Limit State Load (kips) per Support	Total Permissible Support Settlement (inches)	Required Factored Nominal Resistance (kips)				Design Tip Elevation (ft)*	Specified Tip Elevation (ft)
					Strength Limit		Extreme Limit			
					Comp. (φ = 0.7)	Tension (φ = 0.7)	Comp. (φ = 1. 0)	Tension (φ = 1.0)		
Pile 1	30” Drilled Shaft	348.8	53.7	1	80.5 /support 80.5 /pile	0	89.7 /support 89.7 /pile	0	328.0 (a)	328.0
Pile 2		348.9							328.0 (a)	328.0

Note: * Design tip elevations are controlled by (a) compression

REFERENCES

1. "Foundation Report – Puente Avenue UC" for Bridge Design Branch 20, prepared by Office of Geotechnical Design South-1, dated December 13, 2010.
2. "Geotechnical Design Report for Sound Wall Nos. 1758, 1770, 1775, 1805, 1831, 1847, 1871, 1888, 1899, 1935, 1946, and 1959", and Retaining Wall Nos. 806, 809, 812, 822, 860, 868, 874, 925, 927, 1756, 1798, 1822, 1823, 1841, 1883, and 1939 for District 07, prepared by Office of Geotechnical Design South-1.

APPENDICES

Appendix I: Site Map

If you have any questions or comments, please contact Hung Po Yang (916) 227-4534.

Hung Po Yang, P.E.
Transportation Engineer–Civil
Branch A

Cc: Zareh Shahbazian, PM
Shira Rajendra, GS Corporate
Structure Construction R.E. Pending File
Kristen Stahl, DME

Project Site
Vineland Ave
Kenmore
Durness
Stichman
Millbury
Brosee
W Cedarwood
N Ardi
Towne Center
W Havenbrook
Garvey Blvd
Parking Lot
W Garvey
Service Road
Garvey Ave
Exit 33
W Merced Ave
W Mos
Garden View
Big Dalton Ave
Dalewood St
S Halinor
S Siesta
Calino
Puente Ave
W Walnut Creek
Halinor
Roble
© Caltrans
S Ardilla
S Leland
W Ituni
S Bromley
S Wil
S Mo
Los Angeles Region Imagery Acquisition Consortium (LAR-IAC) and Infotech Enerprises America Inc.
Imagery Date: Jan 1, 2006
34°04'11.69" N 117°57'42.58" W elev 0 ft
Eye alt 3564 ft

Site Map

FOR CONTRACT NO. 07-1170U4
PROJECT NO. 0700000085

INFORMATION HANDOUT

Foundation Recommendation - Sound Wall Nos. 1871 and 1888 over RCB Culvert

ROUTE: 07-LA-10 33.2/37.2

M e m o r a n d u m

To: MR. Howard Ng – Branch Chief
Bridge Design Branch 20

Date: February 9, 2012

File No. 07-LA-10-PM 33.4/33.4
EA 07-1170U1
I-10 HOV Lane

Attn.: Mr. Edward Mu
Project Engineer

From: **DEPARTMENT OF TRANSPORTATION**
DIVISION OF ENGINEERING SERVICES
Geotechnical Services
Office of Geotechnical Design South-1

Subject: Foundation Recommendation – Sound Wall Nos1871 and 1888 over RCB Culvert

INTRODUCTION

This memo provides the geotechnical recommendations for the two proposed sound wall sections that span over an existing box culvert on both directions of Highway I-10 near Stationing 1890+50.

Both sections of sound walls are part of the proposed sound wall Nos 1871 (WB) and 1888 (EB) of I-10 HOV Widening project. An existing concrete box culvert is present and across under the proposed sound wall alignment. Due to the highway widening, this culvert will be extended, and a modified concrete barrier Type 736SV will be used to support both sound wall sections over the proposed culvert extension.

The modified Concrete Barrier Type 736SV will be supported by drilled shafts. The dimensions of the pile cap (modified concrete barrier) at Sound Wall No. 1871 are 19.5 feet long and two and one-half (2.5) feet wide. The dimensions of the pile cap at Sound Wall No. 1888 are 24 feet long and two and one-half (2.5) feet wide.

Subsurface information obtained from Borehole A-09-041 has been reviewed for the proposed drilled shaft analysis and design.

Other information regarding subsurface exploration, geology, laboratory testing, and construction recommendations of drilled shaft provided in the Geotechnical Design Report for Sound Walls and Retaining Walls (Reference 1) are still valid.

GEOTECHNICAL RECOMMENDATIONS

Foundation Type

According to the foundation and design load information provided by the project structure engineer, a 24-inch diameter drilled shaft with a pile cap will be constructed to support the sound walls. The following tables summarize the general information for the proposed foundations.

General Foundation Information

Sound Wall No. 1871

Support No.	Design Method	Pile Type (Drilled Shaft)	Finished Grade Elevation (ft)	Cut-off Elevation (ft)	Pile Cap Size (ft)		Permissible settlement under Service Load (in)	Number of Piles Per Support
					B	L		
Pile 1	LRFD	24”	425.36	425.61	2.5	19.7	1	2
Pile 2								

Sound Wall No. 1888

Support No.	Design Method	Pile Type (Drilled Shaft)	Finished Grade Elevation (ft)	Cut-off Elevation (ft)	Pile Cap Size (ft)		Permissible settlement under Service Load (in)	Number of Piles Per Support
					B	L		
Pile 1	LRFD	24”	423.72	423.97	2.5	24.0	1	2
Pile 2			423.98	424.23				

Pile Design Parameters

Axial pile capacity for the proposed sound walls, as provided in the following tables, was estimated based on friction resistance only.

Foundation Recommendations

Sound Wall No. 1871

Support Location	Pile Type	Cut-Off Elev (ft)	Service-I Limit State Total/perm Load (kips)	Permissible Settlement Under Service Load (inches)	Required Factored Nominal Resistance (kips)				Design Tip Elevation (ft)*	Specified Tip Elevation (ft)
					Strength Limit		Extreme Limit			
					Comp. (φ = 0.7)	Tension (φ = 0.7)	Comp. (φ = 1. 0)	Tension (φ = 1.0)		
Pile 1	24" Drilled Shaft	425.61	16.8/support 16.8/pile	1	21.0 /support 21.0 /pile	0	26.3 /support 26.3 /pile	0	405.0 (a)	405.0
Pile 2										

Note: * Design tip elevations are controlled by (a) compression

Sound Wall No. 1888

Support Location	Pile Type	Cut-Off Elev (ft)	Service-I Limit State Total/perm Load (kips)	Permissible Settlement Under Service Load (inches)	Required Factored Nominal Resistance (kips)				Design Tip Elevation (ft)*	Specified Tip Elevation (ft)
					Strength Limit		Extreme Limit			
					Comp. (φ = 0.7)	Tension (φ = 0.7)	Comp. (φ = 1. 0)	Tension (φ = 1.0)		
Pile 1	24" Drilled Shaft	424.1	21.1/support 21.1/pile	1	26.4 /support 26.4 /pile	0	33.1 /support 33.1 /pile	0	404.0 (a)	404.0
Pile 2										

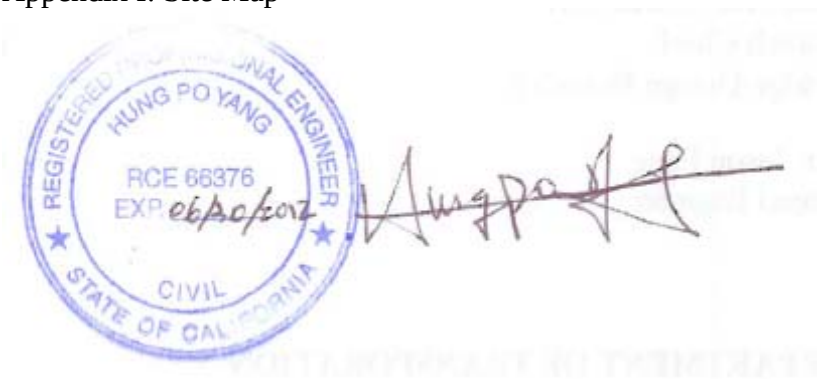
Note: * Design tip elevations are controlled by (a) compression

REFERENCE

1. "Geotechnical Design Report for Sound Wall Nos. 1758, 1770, 1775, 1805, 1831, 1847, 1871, 1888, 1899, 1935, 1946, and 1959", and Retaining Wall Nos. 806, 809, 812, 822, 860, 868, 874, 925, 927, 1756, 1798, 1822, 1823, 1841, 1883, and 1939 for District 07, prepared by Office of Geotechnical Design South-1.

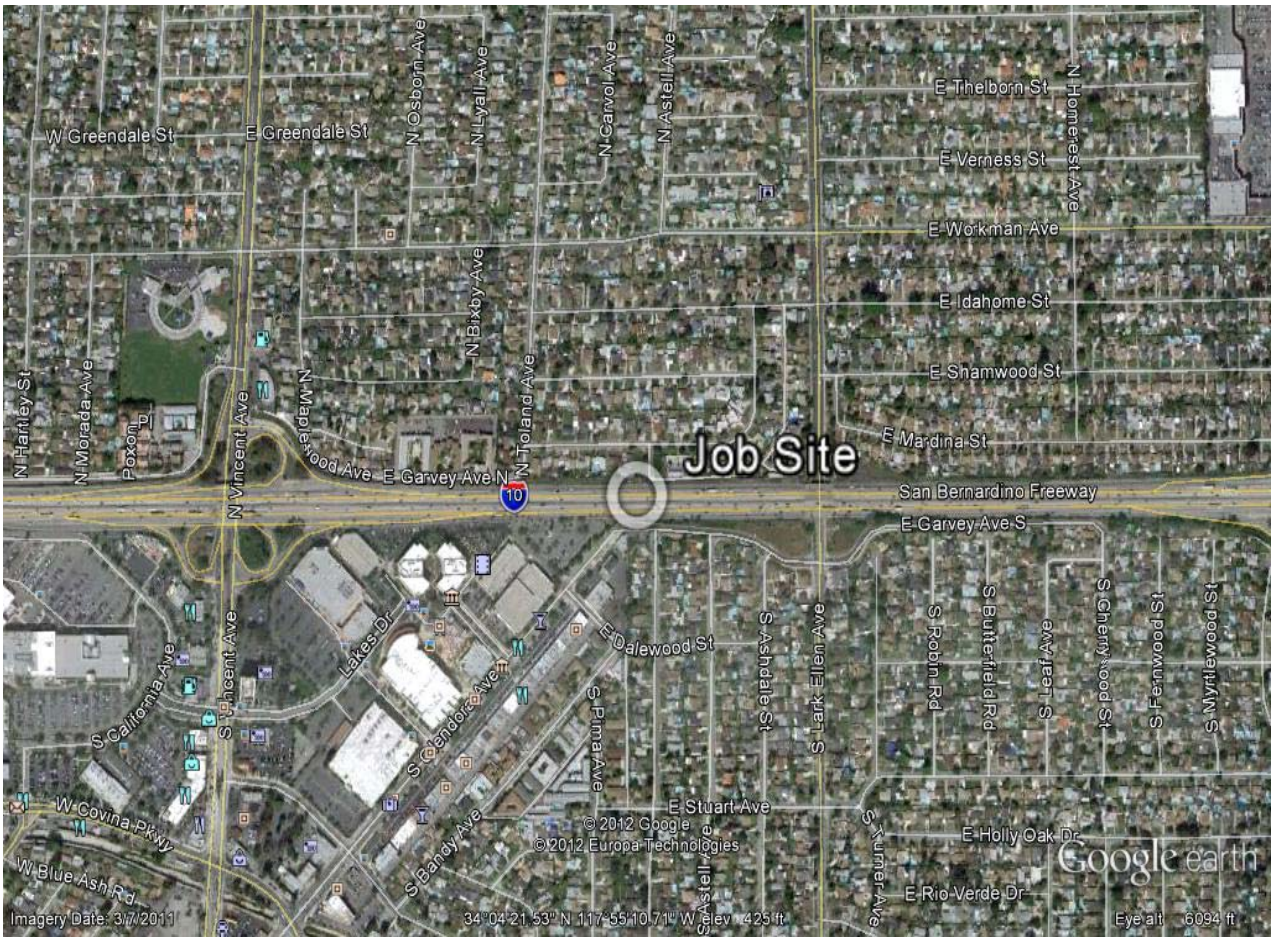
APPENDICES

Appendix I: Site Map



Hung Po Yang, P.E.
Transportation Engineer–Civil
Branch A

Cc: Zareh Shahbazian, PM
Shira Rajendra, GS Corporate
Structure Construction R.E. Pending File
Kristen Stahl, DME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E Greendale St
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N Lyall Ave
N Carvol Ave
N Astell Ave
E Thelborn St
N Homecrest Ave
E Verness St
E Workman Ave
E Idahome St
E Shamwood St
E Mardina St
N Hartley St
N Morada Ave
Poxon Pl
N Vincent Ave
N Maplewood Ave
E Garvey Ave N
N Binby Ave
N Toland Ave
10
San Bernardino Freeway
E Garvey Ave S
Lakes Dr
E Dalewood St
S Ashdale St
S Lark Ellen Ave
S Robin Rd
S Butterfield Rd
S Leaf Ave
S Cherrywood St
S Fernwood St
S Myrtlewood St
S California Ave
S Vincent Ave
S Glendora Ave
S Pima Ave
W Covina Pkwy
E Stuart Ave
S Bandy Ave
E Holly Oak Dr
W Blue Ash Rd
E Rio Verde Dr
S Turner Ave
© 2012 Google
© 2012 Europa Technologies
Google earth
Imagery Date: 3/7/2011
34°04'21.53" N 117°55'10.71" W elev 425 ft
Eye alt 6094 ft

Site Map

FOR CONTRACT NO. 07-1170U4
PROJECT NO. 0700000085

INFORMATION HANDOUT

Foundation Recommendation - SW 1847 over RCB Culvertt

ROUTE: 07-LA-10 33.2/37.2

M e m o r a n d u m

To: MR. Howard Ng – Branch Chief
Bridge Design Branch 20

Date: January 24, 2012

File No. 07-LA-10-PM 33.4/33.4
EA 07-1170U1
I-10 HOV Lane

Attn.: Mr. Edward Mu
Project Engineer

From: **DEPARTMENT OF TRANSPORTATION**
DIVISION OF ENGINEERING SERVICES
Geotechnical Services
Office of Geotechnical Design South-1

Subject: Foundation Recommendation – SW 1847 over RCB Culvert

INTRODUCTION

This memo provides the geotechnical recommendations for the two proposed sound wall sections that span over an existing box culvert near Stationing 1847+50 and 1850+00 of Highway I-10.

Both sections of sound walls are part of the proposed sound wall No 1847 of I-10 HOV Widening project. Both wall sections will be constructed on top of Concrete Barrier Type 736SV supported by drilled shafts. The dimensions of the pile cap (concrete barrier) at west location are 36 feet long and two and one-half (2.5) feet wide. The dimensions of the pile cap at east location are 107 feet long and two and one-half (2.5) feet wide.

Subsurface information obtained from Borehole A-09-016 has been reviewed for the proposed drilled shaft analysis and design.

Other information regarding subsurface exploration, geology, laboratory testing, and construction recommendations of drilled shaft provided in the Geotechnical Design Report for Sound Walls and Retaining Walls (Reference 1) are still valid.

GEOTECHNICAL RECOMMENDATIONS

Foundation Type

According to the foundation and design load information provided by the project structure engineer, a 24-inch and 28-inch diameter drilled shaft with a pile cap will be constructed to support sound wall. The following tables summarize the general information for the proposed foundations.

General Foundation Information

West Location

Support No.	Design Method	Pile Type (Drilled Shaft)	Finished Grade Elevation (ft)	Cut-off Elevation (ft)	Pile Cap Size (ft)		Permissible settlement under Service Load (in)	Number of Piles Per Support
					B	L		
Pile 1	LRFD	24”	390.79	390.20	2.5	36.0	1	2
Pile 2			390.86	390.28				

East Location

Support No.	Design Method	Pile Type (Drilled Shaft)	Finished Grade Elevation (ft)	Cut-off Elevation (ft)	Pile Cap Size (ft)		Permissible settlement under Service Load (in)	Number of Piles Per Support
					B	L		
Pile 3	LRFD	28”	391.49	390.91	2.5	107.0	1	3
Pile 4			391.78	391.20				
Pile 5			391.86	391.40				

Pile Design Parameters

Axial pile capacity for the proposed wall, as provided in the following tables, was estimated based on friction resistance only.

Foundation Recommendations

West Location

Support Location	Pile Type	Cut-Off Elev (ft)	Service-I Limit State Total/perm Load (kips)	Permissible Settlement Under Service Load (inches)	Required Factored Nominal Resistance (kips)				Design Tip Elevation (ft)*	Specified Tip Elevation (ft)
					Strength Limit		Extreme Limit			
					Comp. (φ = 0.7)	Tension (φ = 0.7)	Comp. (φ = 1. 0)	Tension (φ = 1.0)		
Pile 1	24” Drilled Shaft	390.20	33.4/support 33.4/pile	1	50.1 /support 50.1 /pile	0	42.4 /support 42.4 /pile	0	370.0 (a)	370.0
Pile 2		390.28							370.0 (a)	370.0

Note: * Design tip elevations are controlled by (a) compression

East Location

Support Location	Pile Type	Cut-Off Elev (ft)	Service-I Limit State Total/perm Load (kips)	Permissible Settlement under Service Load (inches)	Required Factored Nominal Resistance (kips)				Design Tip Elevation (ft)*	Specified Tip Elevation (ft)
					Strength Limit		Extreme Limit			
					Comp. (φ = 0.7)	Tension (φ = 0.7)	Comp. (φ = 1. 0)	Tension (φ = 1.0)		
Pile 3	28" Drilled Shaft	390.91	74.4/support 74.4/pile	1	111.6 /support 111.6 /pile	0	83.4 /support 83.4 /pile	0	356.0 (a)	356.0
Pile 4		391.20	120/support 120/pile		160 /support 160 /pile		125 /support 125 /pile		356.0 (a)	356.0
Pile 5		391.40	74.4/support 74.4/pile		111.6 /support 111.6 /pile		83.4 /support 83.4 /pile		356.0 (a)	356.0

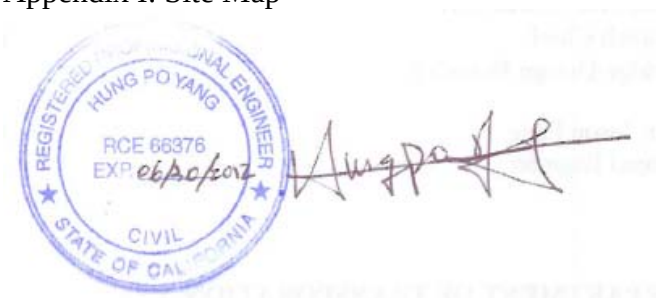
Note: * Design tip elevations are controlled by (a) compression

REFERENCE

1. "Geotechnical Design Report for Sound Wall Nos. 1758, 1770, 1775, 1805, 1831, 1847, 1871, 1888, 1899, 1935, 1946, and 1959", and Retaining Wall Nos. 806, 809, 812, 822, 860, 868, 874, 925, 927, 1756, 1798, 1822, 1823, 1841, 1883, and 1939 for District 07, prepared by Office of Geotechnical Design South-1.

APPENDICES

Appendix I: Site Map



Hung Po Yang, P.E.
Transportation Engineer–Civil
Branch A

Cc: Zareh Shahbazian, PM
Shira Rajendra, GS Corporate
Structure Construction R.E. Pending File
Kristen Stahl, DME

State of California **Business, Transportation and Housing Agency**

M e m o r a n d u m

To: MR. Howard Ng – Branch Chief
Bridge Design Branch 20

Date: September 20, 2013

File No. 07-LA-10-PM 33.4/33.4
EA 07-1170U1
I-10 HOV Lane

Attn.: Mr. Edward Mu
Project Engineer

From: **DEPARTMENT OF TRANSPORTATION**
DIVISION OF ENGINEERING SERVICES
Mets and Geotechnical Services
Office of Geotechnical Design South-1

Subject: Geotechnical Recommendation – Sound Wall No 1775 over existing utilities

INTRODUCTION

This memo provides the geotechnical recommendations for a section of the subject sound wall that span over the existing utilities near Sta. 1795+80 on the westbound of Highway I-10.

To span over the existing utilities, concrete barrier Type 736 SV on drilled shafts has been proposed by Structure Design.

The concrete barrier is to be 12 feet long and 1.5 feet wide.

Subsurface information obtained from Borehole A-09-005 has been reviewed for the design of proposed drilled shafts.

Information regarding subsurface exploration, geology, laboratory testing, and construction recommendations of drilled shaft provided in the Geotechnical Design Report for Sound Walls and Retaining Walls (Reference 1) are still valid.

RECOMMENDATIONS

Foundation Type

According to the provided foundation and design load information, 16-inch diameter drilled shafts with a pile cap will be constructed to support the proposed sound wall section. The following table summarizes the general information for the proposed foundation.

General Foundation Information

Support No.	Design Method	Pile Type (Drilled Shaft)	Finished Grade Elevation (ft)	Cut-off Elevation (ft)	Pile Cap Size (ft)		Permissible settlement under Service Load (in)	Number of Piles Per Support
					B	L		
Pile 4	LRFD	16”	365.69	363.61	1.5	12.0	1	1
Pile 5	LRFD	16”	365.69	363.61	1.5	12.0	1	1

Pile Design Parameters

Axial pile capacities for the proposed sound wall section, as provided in the following tables, were estimated based on friction resistance only.

Foundation Recommendations for Sound Wall 1775

Support Location	Pile Type	Cut-Off Elev (ft)	Service-I Limit State (kips)		Permissible Settlement Under Service Load (inches)	Required Factored Nominal Resistance (kips)								Design Tip Elevation (ft)*	Specified Tip Elevation (ft)
						Strength Limit				Extreme Limit					
						Comp. (φ = 0.7)		Tension (φ = 0.7)		Comp. (φ = 1.0)		Tension (φ = 1.0)			
			Total Load	Permanent Load		support	pile	support	pile	support	pile	support	pile		
Pile 4	16” Drilled Shaft	363.61	12	12	1	15	15	0	0	21	21	0	0	350.0 (a)	350.0
Pile 5	16” Drilled Shaft	363.61	12	12	1	15	15	0	0	21	21	0	0	350.0 (a)	350.0

Note: * Design tip elevations are controlled by (a) compression

REFERENCE

1. "Geotechnical Design Report for Sound Wall Nos. 1758, 1770, 1775, 1805, 1831, 1847, 1871, 1888, 1899, 1935, 1946, and 1959", and Retaining Wall Nos. 806, 809, 812, 822, 860, 868, 874, 925, 927, 1756, 1798, 1822, 1823, 1841, 1883, and 1939 for District 07, prepared by Office of Geotechnical Design South-1.

Hung Po Yang, P.E.
Transportation Engineer–Civil
Branch A

Cc: Zareh Shahbazian, PM
Douglas Brittsan, GS Corporate
Structure Construction R.E. Pending File
Kirsten Stahl, DME

FOR CONTRACT NO. 07-1170U4
PROJECT NO. 0700000085

INFORMATION HANDOUT

Geotechnical Design Report for Sound Walls and Retaining Walls

ROUTE: 07-LA-10 33.2/37.2

State of California | Business, Transportation and Housing Agency

Memorandum

To : MR. Nader Gobran
Senior Transportation Engineer
Office of Design "D"

Attn MR. Mohamed Ghannoum – Project Engineer
District 07
Office of Design "D"

Date: June 28, 2012

File No.07-LA-10
PM 33.4/37.5
EA 07-1170U1
Sound Walls
1758, 1770, 1775, 1805, 1831, 1847, 1871, 1888, 1899, 1935 1946, and 1959
Retaining Walls
763, 806, 809, 812, 822, 860, 868, 874, 925, 927, 1756, 1798, 1822, 1823, 1841, 1883, and 1939

From : **DEPARTMENT OF TRANSPORTATION**
DIVISION OF ENGINEERING SERVICES
Geotechnical Services
Office of Geotechnical Design South-1

Subject : Geotechnical Design Report for Sound Walls and Retaining Walls

1. SCOPE OF WORK

The Office of Geotechnical Design South 1 has prepared this Memorandum to provide geotechnical recommendations for the proposed 12 sound walls and 17 retaining walls along the eastbound and westbound of I-10 in the City of Baldwin Park and West Covina.

2. PROJECT DESCRIPTION

The Route 10 (San Bernardino) Freeway is an eight lane freeway connecting the Los Angeles and San Bernardino County. The proposed project (PM 33.4/37.5) is to widen and re-stripe the freeway's eastbound and westbound directions from west of Puente Ave in the City of Baldwin Park to west of Citrus Ave in the City of West Covina. A 12 feet wide median High Occupancy Vehicle (HOV) lane will be added in each direction of the freeway. The freeway will also be widened on the outside shoulders to maintain four standard traffic lanes in each direction.

This project includes constructing 12 sound walls and 17 retaining walls along the eastbound and westbound of I-10. The total lengths of the sound walls are approximately 23,967 feet with heights varying from 10 to 16 feet. The total lengths of the retaining walls are approximately 8,827 feet with heights varying from 1 to 12 feet. The following tables summarize the information of the proposed sound walls and retaining walls, and applicable boreholes for subsurface information.

Table 1 Summary of Sound Walls

Sound wall No.	Direction	Begin Station	End Station	Length (ft)	Proposed Height (ft)	Applicable Borehole Nos.	Location
1758	EB	1758+17.46	1765+92.54	775	10	A-09-002 A-09-004	At Puente Ave UC
1770	EB	1769+36.00	1806+00.00	3,664	14	A-09-004 A-09-006	Between Puente On-Ramp and Cameron Ave UC
1775	WB	1774+93.00	1797+79.00	2,286	14	A-09-005	Between Puente and Cameron
1805	WB	804+55.00	814+60.00	1,005	14	A-09-007	By Cameron Ave UC
1831	WB	832+18.00	839+94.00	776	14	A-09-012	Between Cameron Ave and Sunset Ave
1847	WB	1845+80.62	1870+90.17	2,509	14	A-09-016 A-09-036	Between Sunset Ave and Vincent Ave
1871	WB	1870+67.00	1896+34.51	2,567	14	A-09-020 A-09-040	Between Vincent Ave and Lark Ellen Ave
1888	EB	1887+80.00	1925+20.00	3,740	12	A-09-024 A-09-025 A-09-041	At Lark Ellen Ave UC to Azusa Ave
1899	WB	899+01.58	925+18.00	2,616	14	A-09-022 A-09-023 A-09-026	Between Azusa Ave and Lark Ellen Ave
1935	WB	1934+36.00	1952+34.50	1,798	16	A-09-029 A-09-032	Between Azusa Ave and Hollenbeck Ave
1946	EB	1945+05.00	1963+00.00	1,795	14	A-09-031 A-09-033 A-09-034	At Hollenbeck Ave UC to Citrus Ave
1959	WB	1958+66.00	1963+00.00	434	14	A-09-035	Between Hollenbeck Ave and Citrus Ave

Table 2 Summary of Retaining Walls

Retaining wall No.	Direction	Begin Station	End Station	Length (ft)	Proposed Max. Height (ft)	Applicable Borehole Nos.	Location
1756	WB	1756+75.00	1761+56.65	482	4.0	A-09-001	At the end of WB Puente Ave. On-Ramp
763	WB	763+49.76	763+80.00	30	10.5	A-09-001	At the east of Puente Ave Bridge on the WB Puente Ave On-Ramp
1798	WB	1798+79.00	1804+55.00	676	3.0	A-09-005 A-09-007	WB 10 FWY, between SW 1775 & SW 1805 West of Cameron Ave.
806	EB	806+35.38	809+22.53	287	8.0	A-09-008	Cameron Ave/Pacific Ave./West Covina PKWY Off-Ramps
809	EB	809+00.00	810+33.18	133	8.0	A-09-008	West of Cameron Ave bridge
812	EB	811+88.00	815+60.00	372	4.0	A-09-008 A-09-010	Cameron Ave/Pacific Ave./West Covina PKWY Off-Ramps, SW 1812
1822	WB	1822+23.72	1832+18.00	994	6.0	A-09-012	WB 10 Fwy, between Pacific/West Covina WB off-ramp & SW 1831
822	EB	822+30.00	823+81.90	152	9.0	A-09-038	EB off-ramp at SB West Covina Pkwy
1823	EB	1823+50.00	1834+50.00	1,100	6.0	A-09-013	W. Garvey Ave. South, from West Covina PKWY going east direction at Civic Center to Crazy Horse Restaurant
1841	EB	841+20.00	856+80.00	1,560	4.0	A-09-014 A-09-017	From Sunset Ave. to the beginning of Vincent Ave. EB Off-Ramp (V1)
860	EB	860+00.00	865+76.00	576	6.0	A-09-037	EB Off-Ramp (V1) to SB Vincent Ave.
868	EB	868+00.00	868+92.00	92	5.0	A-09-019	EB Off-Ramp (V1) to SB Vincent Ave.
874	EB	874+00.00	1883+14.00	914	9.7	A-09-021	NB Vincent Ave. to EB On-Ramp (V3)
1883	EB	1883+14.00	1887+80.00	466	3.0	A-09-041	NB Vincent Ave., EB On-Ramp (V2/V3) to the beginning of SW 1888
925	WB	925+18.00	925+82.80	65	12.0	A-09-028	SB Azusa Ave. WB On-Ramp (A2) to the end of SW 1899
927	WB	928+36.52	929+00.18	64	8.5	A-09-028	NB Azusa Ave. WB Off-Ramp (A3A1), Station 28+60
1939	EB	1936+36.00	1945+00.00	964	4.0	A-09-030	NB Azusa Ave., from the end of EB On-Ramp (A4) to the beginning of SW 1946

The scope of this report includes:

- Review project plans and relevant plans;
- Review published historical groundwater levels;
- Perform subsurface exploration, includes drilling 24 boreholes, with a maximum depth of 40 feet;
- Evaluate laboratory tests;
- Evaluate data obtained from above activities and perform engineering analyses; and
- Draft the report.

3. SUBSURFACE EXPLORATION PROGRAM

Before subsurface exploration, a site reconnaissance was performed to observe site conditions and to mark the locations of our planned exploration. Subsurface exploration was performed between March 09 and June 10, 2009, which includes advancing 24 boreholes to a maximum depth of 40 feet below the existing ground surface. The boreholes were drilled using truck-mounted CME-75 and 750 drill rigs fitted with hollow stem augers.

The locations of the boreholes are shown on LOTBs.

Standard Penetration Test (SPT) was performed during subsurface exploration that complies with ASTM D1586.

Sampling consisted of:

- Collecting of samples retrieved from the SPT split spoon; and
- Collecting of soil samples at selected locations using Standard California Samplers.

4. LABORATORY TESTING PROGRAM

The samples obtained from subsurface exploration were assigned to the laboratory for visual examination and testing. The soils were classified under Soil and Rock Logging, Classification, and Presentation Manual, Caltrans 2010.

Laboratory tests performed including corrosivity tests (minimum resistivity and pH) on composite soil samples, particle-size gradation, Atterberg Limits, and consolidation tests.

5. SITE GEOLOGY AND SUBSURFACE CONDITIONS

5.1 Site Geology

The Site is located in the San Gabriel Valley, which is a broad, relatively flat to slightly sloping basin filled with Tertiary (65 million years) or younger sediments derived from surrounding hills

and mountains. According to the United States Geological Survey's topographic map of the Baldwin Park 7.5-minute quadrangle, ground elevation varies from approximately 400 to 520 feet above mean sea level (amsl) between Vincent Avenue and Citrus Avenue. The area in the valley where the Site is located is regionally sloping approximately 0.01% to the southwest.

The San Gabriel Valley is bounded on the north by the San Gabriel Mountains which rise to greater than 10,000 feet amsl. South of the San Gabriel Valley, the Repetto Hills, Merced Hills, Puente Hills and San Jose Hills rise about 500 feet from the valley floor to separate the valley from the coastal plain. These hills bound the valley on the west, south and east.

The Site is underlain by artificial fill which may overly undifferentiated Quaternary young alluvial-fan deposits consisting of gravel, sand, silt and clay.

For this report, we reviewed the State of California, Department of Water Resources' Bulletin 104-2, Planned Utilization of Groundwater Basins, San Gabriel Valley, Appendix A: Geohydrology. According to Plate 9A and Plate 10, cross section Z of that report, the Quaternary deposits may be as deep as 1500 feet thick through the center of the valley and approximately 500 feet in thickness through the project site.

5.2 Subsurface Conditions

The generalized stratigraphic profile at the borehole locations consisted of sand overlying sand with silt and gravel. Clayey materials were observed at depths from 10 to 20 feet in borehole A-09-029. The recorded SPT N values indicate that the sandy layers are generally very loose to very dense, and the underlying layer of sand with silt and gravel are generally medium dense to very dense. It should be noted that loose sand materials were observed at a shallow depth of about five feet below existing grade in boreholes A-09-013, A-09-017, A-09-021, A-09-024, A-09-026, A-09-034, and A-09-040.

5.3. Groundwater

No ground water was encountered during current subsurface exploration and no piezometer well was installed to monitor groundwater level after drilling completion.

5.5 Corrosion Evaluation

Minimum resistivity and pH tests were conducted on composite samples obtained at various depths. The test results are summarized in the table below. According to Caltrans Corrosion Guidelines, version 1.0, September 2003, the test results indicate that the subsoils at this site are non-corrosive.

Table 3 Soil Corrosion Test Summary

Location	SIC Number	Minimum Resistivity (Ohm-Cm)	pH	Chloride Content (ppm)	Sulfate Content (ppm)
A-09-001 A-09-002	C702314	14,983	6.6	N/A	N/A
A-09-007	C702908	21,506	7.36	N/A	N/A
A-09-019	C702909	7,654	7.54	N/A	N/A
A-09-019	C702910	1,785	7.55	N/A	N/A
A-09-020*	C702911	11,472	7.67	N/A	N/A
A-09-021*	C702912	8,126	7.74	N/A	N/A
A-09-022	C702913	4,456	7.64	N/A	N/A
A-09-023	C702914	4,349	7.60	N/A	N/A
A-09-024*	C702915	7,548	7.81	N/A	N/A
A-09-027	C702916	3,472	7.58	N/A	N/A
A-09-028	C702917	1,655	7.69	N/A	N/A
A-09-031	C702918	3,946	7.67	N/A	N/A
A-09-032	C702919	3,071	7.61	N/A	N/A
A-09-037*	C702920	2,290	7.41	N/A	N/A
A-09-038 A-09-039	C702315	12,023	6.98	N/A	N/A
A-09-042	C702316	13,225	7.16	N/A	N/A

Note: 1. Caltrans currently considers a site to be corrosive to foundation elements if one or more of the following conditions exist: Chloride concentration is greater than or equal to 500 ppm, sulfate concentration is greater than or equal to 2000 ppm, or the pH is 5.5.or less.
2. * Denotes test performed at sound wall or retaining wall locations

6. GEOTECHNICAL RECOMMENDATIONS

6.1 Soil Engineering Properties

Soil engineering properties and generalized soil stratigraphy used in geotechnical analysis are summarized in the tables below. The soil engineering properties were based on laboratory test and estimated from corrected SPT N values (Bowles, 1977).

SOUND WALL

Table 4 Sound Wall No. 1758

Layer No.	Depth (ft)*	Soil Type	Field SPT Blow Counts	Estimated Shear Strength Properties
1	0-5	Silty Sand (Fill)	13	$\varphi = 33^\circ$
2	5-10	Silty Sand	21	$\varphi = 35^\circ$
3	10-25	Silty Sand	34	$\varphi = 37^\circ$
4	25-35	Silty Sand with Gravel	56	$\varphi = 38^\circ$

Note: 1. Depths are measured from roadway design finish grade

Table 5 Sound Wall No. 1770

Layer No.	Depth (ft)	Soil Type	Field SPT Blow Counts	Estimated Shear Strength Properties
1	0-5	Silty Sand	8	$\varphi = 31^\circ$
2	5-15	Silty Sand with Gravel	36	$\varphi = 38^\circ$
3	15-20	Silty Sand	24	$\varphi = 35^\circ$
4	20-35	Silty Sand with Gravel	70	$\varphi = 39^\circ$

Note: 1. Depths are measured from roadway design finish grade

Table 6 Sound Wall No. 1775

Layer No.	Depth (ft)	Soil Type	Field SPT Blow Counts	Estimated Shear Strength Properties
1	0-11	Silty Sand	17	$\varphi = 35^\circ$
2	11-25	Poorly Graded Sand with Silt	18	$\varphi = 33^\circ$
3	25-35	Silty Sand with Gravel	>50	$\varphi = 38^\circ$

Note: 1. Depths are measured from roadway design finish grade

Table 7 Sound Wall No. 1805

Layer No.	Depth (ft)	Soil Type	Field SPT Blow Counts	Estimated Shear Strength Properties
1	0-20	FILL	N/A	φ = 30°
2	20-25	Poorly Graded Sand	8	φ = 32°
3	25-35	Silty Sand	45	φ = 38°

Note: 1. Depths are measured from roadway design finish grade

Table 8 Sound Wall No. 1831

Layer No.	Depth (ft)	Soil Type	Field SPT Blow Counts	Estimated Shear Strength Properties
1	0-5	Sandy Silt	6	φ = 31°
2	5-20	Silty Sand	14	φ = 31°
3	20-25	Silty Sand	46	φ = 37°
4	25-35	Silty Sand with Gravel	>50	φ = 40°

Note: 1. Depths are measured from roadway design finish grade

Table 9 Sound Wall No. 1847

Layer No.	Depth (ft)	Soil Type	Field SPT Blow Counts	Estimated Shear Strength Properties
1	0-10	Sandy Silt (Fill)	10	φ = 32°
2	10-15	Silty Sand	6	φ = 29°
3	15-20	Silty Sand	10	φ = 30°
4	20-25	Poorly Grade Sand	18	φ = 32°
5	25-35	Poorly Grade Sand	34	φ = 36°

Note: 1. Depths are measured from roadway design finish grade

Table 10 Sound Wall No. 1871

Layer No.	Depth (ft)	Soil Type	Field SPT Blow Counts	Estimated Shear Strength Properties
1	0-15	Silty Sand	1	$\varphi = 25^\circ$
2	15-25	Clayey Sand	16	$\varphi = 33^\circ$
3	25-35	Silty Sand	15	$\varphi = 31^\circ$
4	35-40	Sandy Silt	8	$\varphi = 28^\circ$

Note: 1. Depths are measured from roadway design finish grade

Table 11 Sound Wall No. 1888

Layer No.	Depth (ft)	Soil Type	Field SPT Blow Counts	Estimated Shear Strength Properties
1	0-10	Silty Sand	1	$\varphi = 25^\circ$
2	10-20	Silty Sand	4	$\varphi = 28^\circ$
3	20-35	Silty Sand	9	$\varphi = 30^\circ$
4	35-40	Lean Clay with Sand	22	$\varphi = 32^\circ$

Note: 1. Depths are measured from roadway design finish grade

Table 12 Sound Wall No 1899

Layer No.	Depth (ft)	Soil Type	Field SPT Blow Counts	Estimated Shear Strength Properties
1	0-10	Silty Sand	2	$\varphi = 27^\circ$
2	10-20	Silty Sand	31	$\varphi = 37^\circ$
3	20-25	Clayey Sand	12	$\varphi = 31^\circ$
4	25-30	Silty Sand	20	$\varphi = 32^\circ$
4	30-35	Clayey Sand	17	$\varphi = 31^\circ$

Note: 1. Depths are measured from roadway design finish grade

Table 13 Sound Wall No. 1935

Layer No.	Depth (ft)	Soil Type	Field SPT Blow Counts	Estimated Shear Strength Properties
1	0-10	Silty Sand	5	φ = 30°
2	10-20	Sandy Clay	28	φ = 37° Cu = 3 ksf
3	20-25	Silty Sand	28	φ = 36°
4	25-35	Silty Sand	50	φ = 38°

Note: 1. Depths are measured from roadway design finish grade

Table 14 Sound Wall No. 1946

Layer No.	Depth (ft)	Soil Type	Field SPT Blow Counts	Estimated Shear Strength Properties
1	0-5	Silty Sand (Fill)	1	φ = 25°
2	5-10	Sandy Silt	7	φ = 30°
3	10-25	Silty Sand	25	φ = 35°
4	25-30	Silty Sand	70	φ = 40°
5	30-35	Clayey Sand	33	φ = 35°

Note: 1. Depths are measured from roadway design finish grade

Table 15 Sound Wall No. 1959

Layer No.	Depth (ft)	Soil Type	Field SPT Blow Counts	Estimated Shear Strength Properties
1	0-5	Sandy Silt (Fill)	15	φ = 35°
2	5-15	Silty Sand	30	φ = 37°
3	15-20	Silty Sand	70	φ = 40°
4	20-25	Poorly Graded Sand	15	φ = 32°
5	25-35	Poorly Graded Sand	42	φ = 37°

Note: 1. Depths are measured from roadway design finish grade

RETAINING WALL

Table 16 Type 5 Retaining Wall No. 1756

Layer No.	Depth (ft)	Soil Type	Field SPT Blow Counts	Estimated Soil Engineering Properties
1	retained soil behind wall	Well Compacted Selected Fill	N/A	γ = 120 pcf φ = 34°
2*	0-10	Silty Sand	9	γ = 112 pcf φ = 31°
3	10-20	Silty Sand	>50	γ = 133 pcf φ = 38°

Note: 1. Depths are measured from design finish grade
2.*Layer where footing will be located

Table 17 Type 1 Retaining Wall No. 763

Layer No.	Depth (ft)	Soil Type	Field SPT Blow Counts	Estimated Soil Engineering Properties
1	retained soil behind wall	Well Compacted Selected Fill	N/A	γ = 120 pcf φ = 34°
2*	0-10	Silty Sand	9	γ = 112 pcf φ = 31°
3	10-20	Silty Sand	>50	γ = 133 pcf φ = 38°

Note: 1. Depths are measured from design finish grade
2.*Layer where footing will be located

Table 18 Type 5 Retaining Wall No. 1798

Layer No.	Depth (ft)	Soil Type	Field SPT Blow Counts	Estimated Soil Engineering Properties
1	retained soil behind wall	Well Compacted Selected Fill	N/A	γ = 120 pcf φ = 34°
2*	0-10	Silty Sand	15	γ = 116 pcf φ = 33°
3	10-20	Poorly graded Sand	18	γ = 115 pcf φ = 32°
4	20-30	Silty Sand	>50	γ = 132 pcf φ = 38°

Note: 1. Depths are measured from design finish grade
2.*Layer where footing will be located

Table 19 Type 5 Retaining Wall No. 806

Layer No.	Depth (ft)	Soil Type	Field SPT Blow Counts	Estimated Soil Engineering Properties
1	retained soil behind wall	Well Compacted Selected Fill	N/A	γ = 120 pcf φ = 34°
2*	0-5	Silty Sand	8	γ = 111 pcf φ = 30°
3	5-15	Gravel with Silt and Sand	36	γ = 126 pcf φ = 36°
4	15-20	Silty Sand	24	γ = 117 pcf φ = 33°

Note: 1. Depths are measured from design finish grade
2.*Layer where footing will be located

Table 20 Type 5 Retaining Wall No. 809

Layer No.	Depth (ft)	Soil Type	Field SPT Blow Counts	Estimated Soil Engineering Properties
1	retained soil behind wall	Well Compacted Selected Fill	N/A	γ = 120 pcf φ = 34°
2*	0-5	Silty Sand	8	γ = 111 pcf φ = 30°
3	5-15	Gravel with Silt and Sand	36	γ = 126 pcf φ = 36°
4	15-20	Silty Sand	24	γ = 117 pcf φ = 33°

Note: 1. Depths are measured from design finish grade
2.*Layer where footing will be located

Table 21 Type 736SV (Mod) Retaining Wall No. 812

Layer No.	Depth (ft)	Soil Type	Field SPT Blow Counts	Estimated Soil Engineering Properties
1	retained soil behind wall	Well Compacted Selected Fill	N/A	γ = 120 pcf φ = 34°
2*	0-10	Silty Sand	8	γ = 111 pcf φ = 30°
3	10-20	Gravel with Silt and Sand	34	γ = 123 pcf φ = 35°

Note: 1. Depths are measured from design finish grade
2.*Layer where footing will be located

Table 22 Type 5 Retaining Wall No. 1822

Layer No.	Depth (ft)	Soil Type	Field SPT Blow Counts	Estimated Soil Engineering Properties
1	retained soil behind wall	Well Compacted Selected Fill	N/A	γ = 120 pcf φ = 34°
2*	0-5	Silty	6	γ = 102 pcf φ = 31°
3	5-20	Silty Sand	14	γ = 112 pcf φ = 30°
4	20-30	Silty Sand	>50	γ = 125 pcf φ = 37°

Note: 1. Depths are measured from design finish grade
2.*Layer where footing will be located

Table 23 Type 1 Retaining Wall No. 822

Layer No.	Depth (ft)	Soil Type	Field SPT Blow Counts	Estimated Soil Engineering Properties
1	retained soil behind wall	Well Compacted Selected Fill	N/A	γ = 120 pcf φ = 34°
2*	0-5	Silty Sand	24	γ = 120 pcf φ = 35°
3	5-10	Sand with Silt and Gravel	14	γ = 113 pcf φ = 31°
4	10-20	Silty Sand with Gravel	>50	γ = 130 pcf φ = 38°

Note: 1. Depths are measured from design finish grade
2.*Layer where footing will be located

Table 24 Type 5 Retaining Wall No. 1823

Layer No.	Depth (ft)	Soil Type	Field SPT Blow Counts	Estimated Soil Engineering Properties
1	retained soil behind wall	Well Compacted Selected Fill	N/A	γ = 120 pcf φ = 34°
2*	0-5	Silty Sand	1	γ = 85 pcf φ = 27°
3	5-17	Silty Sand	12, 35	γ = 118 pcf φ = 31°
4	17-30	Silty Sand with Gravel	>50	γ = 125 pcf φ = 37°

Note: 1. Depths are measured from design finish grade
2.*Layer where footing will be located

Table 25 Type 736 SV (Mod) Retaining Wall No. 1841

Layer No.	Depth (ft)	Soil Type	Field SPT Blow Counts	Estimated Soil Engineering Properties
1	retained soil behind wall	Well Compacted Selected Fill	N/A	γ = 120 pcf φ = 34°
2*	0-5	Silty Sand	2	γ = 100 pcf φ = 30°
3	5-17	Silty Sand	4	γ = 92 pcf φ = 27°
4	17-30	Silty Sand	20	γ = 115 pcf φ = 32°

Note: 1. Depths are measured from design finish grade
2.*Layer where footing will be located

Table 26 Type 5 Retaining Wall No. 860

Layer No.	Depth (ft)	Soil Type	Field SPT Blow Counts	Estimated Soil Engineering Properties
1	retained soil behind wall	Well Compacted Selected Fill	N/A	γ = 120 pcf φ = 34°
2*	0-20	Sandy Silt	4	γ = 97 pcf φ = 28°

Note: 1. Depths are measured from design finish grade
2.*Layer where footing will be located

Table 27 Type 5 Retaining Wall No. 868

Layer No.	Depth (ft)	Soil Type	Field SPT Blow Counts	Estimated Soil Engineering Properties
1	retained soil behind wall	Well Compacted Selected Fill	N/A	γ = 120 pcf φ = 34°
2*	0-10	Sand with Silt	20	γ = 120 pcf φ = 31°
3	10-20	Sand with Silt	>50	γ = 128 pcf φ = 37°

Note: 1. Depths are measured from design finish grade
2.*Layer where footing will be located

Table 28 Type 5 Retaining Wall No. 874

Layer No.	Depth (ft)	Soil Type	Field SPT Blow Counts	Estimated Soil Engineering Properties
1	retained soil behind wall	Well Compacted Selected Fill	N/A	$\gamma = 120$ pcf $\varphi = 34°$
2*	0-5	Silty Sand [Fill]	2	$\gamma = 100$ pcf $\varphi = 30°$
3	5-10	Silty Sand	2	$\gamma = 92$ pcf $\varphi = 28°$
4	10-20	Silty Sand	9	$\gamma = 102$ pcf $\varphi = 31°$

Note: 1. Depths are measured from design finish grade
2.*Layer where footing will be located

Table 29 Type 5 Retaining Wall No. 1883

Layer No.	Depth (ft)	Soil Type	Field SPT Blow Counts	Estimated Soil Engineering Properties
1	retained soil behind wall	Well Compacted Selected Fill	N/A	$\gamma = 120$ pcf $\varphi = 34°$
2*	0-10	Silty Sand	4	$\gamma = 100$ pcf $\varphi = 30°$
3	10-15	Silty Sand with Gravel	25	$\gamma = 125$ pcf $\varphi = 34°$
4	15-20	Poorly graded Sand	54	$\gamma = 130$ pcf $\varphi = 38°$

Note: 1. Depths are measured from design finish grade
2.*Layer where footing will be located

Table 30 Type 7B (Mod) Retaining Wall No. 925 and 927

Layer No.	Depth (ft)	Soil Type	Field SPT Blow Counts	Estimated Soil Engineering Properties
1	retained soil behind wall	Well Compacted Selected Fill	N/A	$\gamma = 120$ pcf $\varphi = 34°$
2*	0-10	Silty Sand	18	$\gamma = 120$ pcf $\varphi = 31°$
3	10-20	Silty Sand with Gravel	25	$\gamma = 125$ pcf $\varphi = 34°$
4	20-30	Silty Sand	26	$\gamma = 122$ pcf $\varphi = 33°$

Note: 1. Depths are measured from design finish grade
2.*Layer where footing will be located

Table 31 Type 5 Retaining Wall No. 1939

Layer No.	Depth (ft)	Soil Type	Field SPT Blow Counts	Estimated Soil Engineering Properties
1	retained soil behind wall	Well Compacted Selected Fill	N/A	$\gamma = 120$ pcf $\varphi = 34^\circ$
2*	0-10	Silty Sand	11	$\gamma = 113$ pcf $\varphi = 31^\circ$
3	10-20	Silty Sand	>50	$\gamma = 133$ pcf $\varphi = 38^\circ$
4	20-25	Silty Sand	33	$\gamma = 120$ pcf $\varphi = 35^\circ$

Note: 1. Depths are measured from design finish grade
2.*Layer where footing will be located

6.2 Masonry Block on Pile Cap Sound wall

The proposed sound walls will be supported by drilled shafts as specified in Caltrans Sound Wall, Masonry Block on Pile Cap, Standard Plans (May, 2006). The engineering properties of subsurface soils summarized in the tables above may be used for walls and piles selection.

6.3 Retaining Wall Footing

The foundation dimensions provided in the Standard Plan sheets for the proposed maximum wall height and the allowable bearing capacity estimated based on the soil shear strength summarized above for each wall location are included in table below.

Table 32 Estimated Allowable Bearing Capacities

Retaining Wall No.	Wall Type	Maximum Height (ft)	Base Width (ft)	Bottom of Footing Elevation (ft)	Estimated Allowable Bearing Capacity (ksf)
1756	5	4.0	4.0	varies	4.0
763	1	10.5	7.25	varies	4.5
1798	5	3.0	4.0	varies	4.5
806	5	8.0	6.5	varies	4.0
809	5	8.0	6.5	varies	4.0
1822	5	6.0	5.0	varies	4.0
822	1	8.6	6.25	varies	4.5
1823*	5	5.7	5.0	varies	2.5

860	5	6.0	5.0	varies	2.5
868	5	5.0	5.0	varies	4.5
874*	5	9.7	8.0	varies	4.0
1883	5	3.0	4.0	varies	3.0
925	7B (Mod)	12.0	8.25	varies	5.0
927	7B (Mod)	8.5	8.25	varies	5.0
1939	5	4.0	4.0	varies	4.0

Note: 1. Minimum footing embedment depth is 3 ft
2. *subgrade preparation for retaining wall footing is required (see Subsection 6.4)
3. Allowable bearing capacity is estimated based on the footing width with maximum wall height

Based on the above results, the estimated allowable footing bearing capacities are either equal to or greater than the imposed footing bearing pressures (demand).

Estimated allowable soil bearing capacities are based on:

- wall foundations to be founded on soil layers;
- wall types; and
- base widths provided in Subsection 6.1, Soil Engineering Properties.

Should soil layers of wall foundations are found different during construction, or designed wall types or maximum wall heights are different from provided in Table 32, this office should be notified and revisions of allowable soil bearing capacities may be provided, if necessary.

The required minimum footing cover depth of 1.5 ft should be provided. For footings constructed on slopes, a minimum horizontal distance of 4 ft measured at the top of the footing should be provided between the near face of the footing and the face of the finished slope.

6.4 Subgrade Preparation for Shallow Footing (Retaining Wall Nos. 874 and 1823)

Loose sandy materials were encountered at a shallow depth in some boreholes near above mentioned retaining walls during subsurface exploration. To provide sufficient bearing to support the wall, subgrade preparation at these wall locations are required.

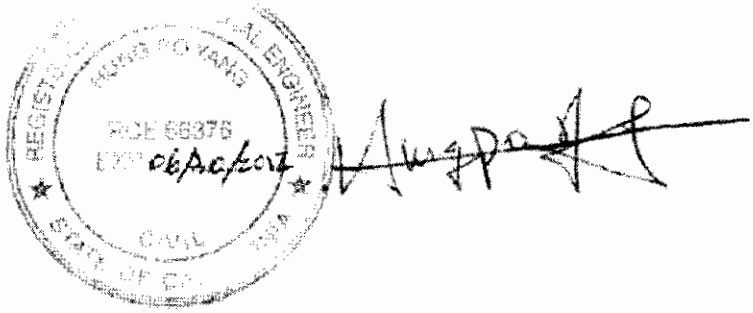
Within these proposed wall limits, subsurface materials must be excavated to a minimum depth of three feet from the bottom of the wall footings and re-compacted to at least 90 percent relative compaction.

At the bottom of excavation, the horizontal limits of excavation must be three feet outside offset from the wall footprint.

7. CONSTRUCTION CONSIDERATIONS

- Groundwater was not encountered during subsurface exploration. However, minor to moderate cave in may occur during pile construction. In this case, a steel casing may be needed to prevent cave in. Drilled shafts should be placed the same day as excavated to reduce potential cave in.
- Coarse gravel should be expected during drilled shafts construction or wall footing excavation.
- Pile construction sequence is important for pile groups with center-to-center (CTC) spacing equal to or less than three times of pile diameter. Construction of adjacent piles should start only after the Portland cement concrete of the previously installed piles properly set and developed adequate strength.

If you have any questions or comments, please contact Hung Po Yang (916) 227-4534.



Hung Po Yang, P.E.
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Branch A

Cc: Zareh Shahbazian, PM
Shira Rajendra, GS Corporate
Kristen Stahl, DME

FOR CONTRACT NO. 07-1170U4
PROJECT NO. 0700000085

INFORMATION HANDOUT

Lead Site Investigation Reports

ROUTE: 07-LA-10 33.2/37.2

LEAD SITE INVESTIGATION REPORT
INTERSTATE 10 HOV WIDENING PROJECT
EXPENDITURE AUTHORIZATION NO. 07-117080
LOS ANGELES COUNTY, CALIFORNIA
TASK ORDER NO. 07-117070-PX
STATEWIDE CONTRACT NO. 43A0078

PREPARED FOR:
State of California
Department of Transportation
District 7, Division of Planning
Office of Environmental Engineering
120 South Spring Street, Mail Stop 16
Los Angeles, California 90012

PREPARED BY:
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October 24, 2002
Project No. 203939001

Ninyo & Moore
Geotechnical and Environmental Sciences Consultants

October 24, 2002
Project No. 203939001

Mr. Samuel K. Yang, Project Manager
State of California
Department of Transportation
District 7, Division of Planning
Office of Environmental Engineering
120 South Spring Street, Mail Stop 16
Los Angeles, California 90012

Subject: Lead Site Investigation Report
Interstate 10 HOV Widening Project
Expenditure Authorization No. 07-117080
Los Angeles County, California
Task Order No. 07-117070-PX
Statewide Contract No. 43A0078

Dear Mr. Yang:

In accordance with Caltrans Contract No. 43A0078, Task Order No. 07-117070-PX, Ninyo & Moore has conducted a Lead Site Investigation at the above-referenced site. The following report documents our methodologies, findings, and conclusions.

We appreciate the opportunity to be of service to you on this project. Should you have any questions, please contact the undersigned at your convenience.

Sincerely,
NINYO & MOORE

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Senior Staff Environmental Scientist

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Distribution: (6) Addressee (5 hardcopy, 1 CD)

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Appendices

Appendix A – Laboratory Reports
Appendix B – Caltrans Haz GIS Database Excel Spreadsheet Deliverables
Appendix C – Statistical Analyses
Appendix D – Normal Distribution Histogram
Appendix E – Correlation of Total Lead to Soluble Lead

1. INTRODUCTION

The State of California Department of Transportation (Caltrans) has authorized Ninyo & Moore to conduct a Lead Site Investigation (LSI) of areas along the Interstate 10 Freeway (I-10) from the State Route 605 Freeway (SR-605) Interchange to the State Route 57/71/210 Interchange in the cities of Baldwin Park, West Covina, and San Dimas in the county of Los Angeles, California (site). Work was conducted in accordance with the Caltrans Contract No. 43A0078, Task Order (TO) No. 07-117070-PX, and the agreement between Ninyo & Moore and Caltrans.

The LSI is part of preparation work for the high-occupancy-vehicle (HOV) lanes widening project along the I-10, including both westbound and eastbound locations, involving approximately 18 kilometers (Kilometer Post [KP] 50.3 to 68.2). In addition to the LSI, a Parcel Acquisition Site Investigation (ASI) is being prepared by Ninyo & Moore (separately from the LSI) for approximately 20 right-of-way (ROW) parcels associated with the I-10 HOV widening project. The ASI will be submitted as a separate report. The entire site has been divided into three segments for reporting purposes by Expenditure Authorization (EA) Nos.: EA No. 07-117070 (Segment 1), EA No. 07-117080 (Segment 2), and EA No. 07-119340 (Segment 3). This report describes the work conducted in EA No. 07-117080 (Segment 2), located along the I-10 from Puente Avenue to Citrus Avenue (KP 53.8 to 60.3; Mile Post [MP] 33.4 to 37.5). The soil samples described in this report for Segment 2 have the following three-digit prefix: 570. The site location map for this segment is presented on Figure 1. Reports for Segments 1 and 3 have been prepared as separate reports.

The purpose of the LSI was to evaluate surface and subsurface soil at the areas of pavement widening along the existing Caltrans ROW, travel way and ramps, areas where new sound walls/retaining walls are proposed, and areas where bridge structure abutment are to be widened and new bent locations are proposed to be constructed. These locations are investigated for concentrations of aerially deposited lead (ADL) that may exceed acceptable regulatory limits on the Caltrans ROW. The soil adjacent to the freeway is suspected of being contaminated with ADL believed to be from automobile emissions from the use of leaded gasoline prior to 1970. The information obtained from the limited soil sampling and laboratory testing was used to determine

the method of re-use or disposal of soil excavated during the proposed construction at the site. The data was also used to inform Caltrans of potential health and safety issues for workers at the site during construction activities. A prework TO meeting between Caltrans and Ninyo & Moore took place on July 1, 2002. A Work Plan meeting between Caltrans and Ninyo & Moore took place on July 11, 2002. Ninyo & Moore prepared a detailed Work Plan (for the entire site including all three segments), dated July 12, 2002, which was approved by the Caltrans Project Manager. As part of the detailed Work Plan, Ninyo & Moore prepared a Health and Safety Plan, dated July 2002, that was delivered to the Caltrans Project Manager.

2. INVESTIGATIVE SUMMARY

Ninyo & Moore collected soil samples within the Caltrans ROW at the various proposed shoulder widening locations, proposed retaining wall/sound wall locations, and bridge abutment locations in Segment 2 along the I-10 from Puente Avenue to Citrus Avenue (KP 53.8 to 60.3; MP 33.4 to 37.5). Segment 2 was divided into eight sections (four westbound and four eastbound sections). The four westbound sections were designated 100s, 300s, 500s, and 700s. The four eastbound sections were designated 200s, 400s, 600s, and 800s. For the purpose of boring location identification (ID), the boring ID 570-101, for example, contains the prefix of the segment number (570 in this case for Segment 2) and the suffix for the first boring location in the Section 100 series. For a soil sample ID, the depth in meters (m) below surface grade (bsg) was added to the end of the boring location. Therefore, a soil sample collected at a depth of 0.3 m bsg from boring 570-101 would be designated 570-101-0.3. Soil samples were collected at the surface to 6 inches (0), 0.3, 0.6, 0.9, and 1.5 m bsg, unless refusal was encountered during drilling. A total of 518 soil samples were collected and analyzed at 127 boring locations. The boring locations are presented on Layouts L-1 through L-20 of Segment 2.

Twenty-five (25) of the 518 soil samples collected contained concentrations of lead which equaled or exceeded the California Total Threshold Limit Concentration (TTLC) for lead, (1,000 milligrams per kilogram [mg/kg]). Eight samples exceeded the 1,496-mg/kg limit provided in the September 22, 2000 California Environmental Protection Agency (Cal-EPA)

Department of Toxic Substances Control (DTSC) variance to Caltrans District 7 (variance) as amended by Assembly Bill 414. Two hundred sixteen (216) soil samples contained concentrations of lead less than the TTLC of 1,000 mg/kg but more than or equal to 50 mg/kg, which is 10 times the California Soluble Threshold Limit Concentration (STLC) for lead (5 milligrams per liter [mg/l]). These 216 soil samples were analyzed for soluble lead (STLC) by the Waste Extraction Test (WET). One hundred sixty-two (162) of these samples contained 5 mg/l or more of soluble lead (STLC). One hundred sixty-two (162) samples were subsequently analyzed for soluble lead using the deionized water (DI-WET) extraction. Twelve (12) of the 162 samples contained 0.5 mg/l or more of lead using the DI-WET method.

In accordance with the TO, a total of 129 samples were analyzed by Toxicity Characteristic Leaching Procedure (TCLP). These 129 samples included all of the samples (25) with total lead by TTLC greater than or equal to 1,000 mg/kg and 104 samples with 5 mg/l or more of soluble lead by STLC. Seven of the 129 samples contained 5 mg/l or more of lead by TCLP. In accordance with the TO, this number (129), combined with totals of TCLP analyses from Segments 1 and 3, constitutes approximately 25 percent of all of the samples collected.

In accordance with the TO, samples were analyzed for pH to meet the requirement of analyzing a minimum of 10 percent of the total samples. Fifty-three (53) randomly selected samples were analyzed for pH. pH values ranged from 5.8 to 9.1.

Thirty-five (35) samples were analyzed for Title 22 metals (excluding lead). No metals concentrations exceeded their respective TTLCs. Six samples contained concentrations of selenium that exceeded 10 times the STLC for selenium (10 mg/kg).

All of the soil samples collected in Segment 2 were recorded on a total of 13 chain-of-custody (COC) records. In accordance with the TO, one equipment rinsate sample was collected per COC record. Thirteen (13) equipment rinsate samples were collected and analyzed for total lead. The highest concentration of lead detected in any of the samples was 0.01 mg/l.

3. PROJECT DESCRIPTION

The following sections describe the site description, purpose, and limitations.

3.1. Site Description

The site (EA No. 07-117080, Segment 2) included various locations along the I-10 in both a westbound and an eastbound direction, from Puente Avenue to Citrus Avenue (KP 53.8 to 60.3; MP 33.4 to 37.5). Segment 2 was divided into eight sections (four westbound and four eastbound sections), as presented on Table T1 below.

Table T1 – Boring Distribution

Section	Direction	Number of Borings Completed	Approximate Length of Section (meters)	Section Limits (Approximate Stationing Nos.)
100s	Westbound	23	1,910	West of Puente Avenue to Pacific Avenue/West Covina Parkway (535+50 to 555+00)
200s	Eastbound	27	1,910	
300s	Westbound	16	1,505	Pacific Avenue/West Covina Parkway to Vincent Avenue (555+00 to 570+00)
400s	Eastbound	3	1,505	
500s	Westbound	19	1,760	Vincent Avenue to Azusa Avenue (570+00 to 587+50)
600s	Eastbound	15	1,760	
700s	Westbound	12	1,075	Azusa Avenue to East of Meadow Road (587+50 to 598+50)
800s	Eastbound	12	1,075	

Soil samples were collected from unpaved shoulders, freeway ramps, gore areas, and abutment slope areas. Samples were taken at positions specified by the Caltrans-approved detailed Work Plan prepared by Ninyo & Moore dated July 12, 2002. The site location map for this segment is presented on Figure 1. The boring locations are presented on Layouts L-1 through L-20 of Segment 2.

3.2. Purpose

The purpose of the TO was to evaluate concentrations of ADL in soil to determine if they exceed acceptable regulatory concentrations along the above-mentioned locations and to provide recommendations regarding the handling of the soil for re-use, or methods in disposal.

3.3. Limitations

The LSI was conducted in accordance with TO No. 07-117070-PX, Statewide Contract No. 43A0078, and with the detailed Work Plan dated July 12, 2002.

The environmental services described in this report have been conducted in general accordance with current regulatory guidelines and the standard-of-care exercised by environmental consultants performing similar work in the project area. No warranty, expressed or implied, is made regarding the professional opinions presented in this report. Please note that this study did not include an evaluation of geotechnical conditions or potential geologic hazards.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Ninyo & Moore should be contacted if the reader requires any additional information or has questions regarding the content, interpretations presented, or completeness of this document.

Our conclusions, recommendations, and opinions are based on an analysis of the observed site conditions and the referenced literature. It should be understood that the conditions of a site can change with time as a result of natural processes or the activities of man at the subject site or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Ninyo & Moore has no control.

4. INVESTIGATION METHODS

The field work for Segment 2 was conducted from July 15 through July 18, 2002. Traffic control consisted of shoulder closures provided each day by American Barricade, Inc. of Anaheim, California. The following sections describe soil sampling completed by hand-auger and direct-push methods, investigative derived wastes, laboratory analyses, and Geographical Information System (GIS) data.

4.1. Hand-Auger Sampling

Of the 518 soil samples collected from 127 boring locations in Segment 2, 145 samples were collected from 47 boring locations using hand-augered drilling methods. Soil samples were collected at the surface to 6 inches (0), 0.3, 0.6, 0.9, and 1.5 m bsg, except for the proposed sample depths not collected due to refusal encountered during drilling and proposed boring locations not attempted due to paved shoulders. A summary of total work completed in Segment 2 including the work completed by hand-auger drilling is presented on Table T2. The proposed boring locations and samples not attempted are presented on Table T3.

Ninyo & Moore collected samples using hand-augered drilling methods as described in the detailed Work Plan prepared by Ninyo & Moore dated July 12, 2002. Borings were drilled using augers in which soil samples were placed into new, 2-inch-diameter by 3-inch-long brass sleeves, and capped with plastic end caps and labeled. The sampling equipment was decontaminated between each boring and equipment rinsate samples were collected and analyzed. Equipment rinsate samples were collected by pouring deionized water over/through decontaminated equipment and allowing the water to drain into laboratory-supplied sample containers. Soil samples and equipment rinsate samples were transferred under COC protocol to the State-certified laboratory within 24 hours of collection. In accordance with the TO and presented in the detailed Work Plan, soil sample homogenization was performed in the laboratory.

4.2. Direct-Push Sampling

Of the 518 soil samples collected from 127 boring locations in Segment 2, 373 samples were collected from 80 boring locations using direct-push drilling methods. Soil samples were collected at the surface to 6 inches (0), 0.3, 0.6, 0.9, and 1.5 m bsg, except for the proposed sample depths not collected due to refusal encountered during drilling, proposed boring locations not attempted due to paved shoulders, and borings not completed due to water intrusion from underground irrigation pipelines encountered during drilling. A summary of total work completed in Segment 2 including the work completed by direct-push drilling is presented on Table T2. The proposed boring locations and samples not attempted are presented on Table T3.

Borings were drilled and sampled using direct-push drilling methods by Interphase Environmental, Inc. (Interphase) of Los Angeles, California as described in the detailed Work Plan prepared by Ninyo & Moore dated July 12, 2002. Soil samples were collected into new acetate sleeves and capped with plastic end caps and labeled. The sample equipment was decontaminated between each boring and equipment rinsate samples were collected and analyzed. Equipment rinsate samples were collected by pouring deionized water over/through decontaminated equipment and allowing the water to drain into laboratory-supplied sample containers. Soil samples and equipment blank samples were transferred under COC protocol to the State-certified laboratory within 24 hours of collection. In accordance with the TO and presented in the detailed Work Plan, soil sample homogenization was performed in the laboratory.

4.3. Investigative Derived Wastes

Soil cuttings were not generated from the borings drilled by direct-push methods during this project. During hand-auger drilling, soil cuttings were returned to the borehole upon collection of soil samples. During direct-push drilling, boreholes were backfilled with granular bentonite upon completion of soil sampling. Disposable equipment (e.g., acetate sleeves, gloves, etc.) was not considered hazardous, and was bagged and disposed as municipal waste. Decontamination water was disposed of on site in accordance with the TO and de

tailed Work Plan. As required by the TO, no decontamination water entered storm drains or escaped the Caltrans ROW. Characterization of the decontaminated water was not required by the TO. In prior years, Caltrans did require characterization and off-site disposal of decontaminated water. On each of these past ADL surveys, lead was not detected or was detected at very low (non-hazardous) concentrations in decontaminated water.

4.4. Laboratory Analyses

Soil samples were transferred under COC to Advanced Technology Laboratories (ATL) of Signal Hill, California. Once the samples were received by ATL, the analysis of the samples was performed within five days, the turnaround time specified in the TO. The holding time for metals analyses is 180 days. Prior to analysis, soil sample homogenization was performed by ATL. The laboratory analyses are presented in the laboratory results included in Appendix A.

In accordance with the TO, each soil sample (518 total) was analyzed for total lead (TTLC) by United States Environmental Protection Agency (EPA) Test Method No. 6010B. Of those, 216 samples contained total lead (TTLC) at concentrations greater than or equal to 50 mg/kg and less than 1,000 mg/kg, and were further analyzed for soluble lead (STLC) using the WET Method by EPA Test Method No. 7420. One hundred sixty-two (162) of the 216 samples contained soluble lead (STLC) at concentrations greater than or equal to 5 mg/l, and these 162 samples were further analyzed for soluble lead using the DI-WET Method by EPA Test Method No. 7420.

In accordance with the TO, selected samples were analyzed for lead by TCLP using EPA Test Method Nos. 1311/7420. As specified in the TO, the samples (25) containing 1,000 mg/kg or more of total lead by TTLC were analyzed for lead by TCLP. After consulting with the Caltrans Project Manager, an additional 104 samples were selected for TCLP analyses from among the samples with the greatest concentrations of soluble lead (all greater than 5 mg/l). Waste soil containing these concentrations of TTLC or STLC lead would be treated as hazardous waste by California regulations. Analysis for TCLP is used to evaluate

whether soils should be classified as hazardous for disposal purposes under Federal Law. A total of 129 samples were analyzed for lead by TCLP from Segment 2. In accordance with the TO, this number (129), combined with the totals of TCLP analyses from Segments 1 and 3, constitutes approximately 25 percent of all the samples collected.

In accordance with the TO, samples were analyzed for pH using EPA Test Method No. 9045. Fifty-three (53) randomly selected samples were analyzed for pH.

Thirty-five (35) samples were analyzed for Title 22 metals (excluding lead) using EPA Test Method Nos. 6010B/7471A. In accordance with the TO, the two samples with the highest total lead (TTLC) in each section (16 of the 35 samples) were analyzed for Title 22 metals. The remaining 19 samples were selected to provide an even distribution with regard to depth and location.

In accordance with Contract No. 43A0078, one equipment rinsate sample was collected per COC. Thirteen (13) equipment rinsate samples were collected and analyzed for total lead by EPA Test Method No. 6010B.

4.5. Geographical Information System (GIS)

Latitude and longitude (NAD 83) of sampling locations were recorded with a handheld Global Positioning System (GPS) unit (Geoexplorer 3, Trimble). Laboratory data and coordinates were entered into two Excel tables provided by Caltrans. Sample IDs intended for use by Caltrans for sampling and for GIS tables were provided to Ninyo & Moore. The GIS tables are presented in Appendix B. The sample IDs presented in Appendix B are identical to the sample IDs used throughout this report and shown on the attached Table 1. The sample IDs in Appendix B and Table 1 are in the following format: three-digit prefix – three-digit boring number – depth in meters. The three-digit prefix for Segment 2 (this report) is 570. The three-digit boring numbers are based on sections as defined in Table T1 and the depth is in meters. For example, sample 570-703-1.5 is the sample collected from a depth of 1.5 m in boring 703 (Section 7) of Segment 2 (570).

5. INVESTIGATIVE RESULTS

The results of the completed work, field quality assurance/quality control (QA/QC), laboratory results, and laboratory QA/QC are presented below.

5.1. Summary of Completed Work

The proposed work was based on the Caltrans-approved detailed Work Plan LSI prepared by Ninyo & Moore dated July 12, 2002. Tables T2 and T3 summarize the number of borings completed and samples collected from Segment 2 relative to the number of borings and samples proposed in the detailed Work Plan. As indicated in the tables below, some proposed boring locations were not attempted due to paved shoulders and water intrusion from underground irrigation pipelines encountered during drilling. Some borings were completed with less than five samples collected per boring due to sampling equipment refusal. If refusal was encountered in a boring after collection of the third sample, the boring was terminated at that depth. If refusal was encountered prior to collection of the third sample, the boring was relocated and one additional attempt was made to collect the deeper sample. Each sample interval, at which samples were not collected due to refusal, is indicated on the attached Table 1.

Table T2 – Summary of Work

No. of Borings (Samples) Proposed in Work Plan	[1] No. of Borings (Samples) Not Completed	No. of Samples Attempted but not collected due to Refusal	No. of Borings Completed (Samples Collected and Analyzed)	Boring Drilling Method of Completed Borings	
				Direct-Push Borings (Samples)	Hand-Auger Borings (Samples)
142 (710)	15 (75)	117	127 (518)	80 (373)	47 (145)

Note:
[1] Borings were not attempted as proposed in the detailed Work Plan, with the concurrence of the Caltrans Project Manager, due to paved shoulders and water intrusion from underground irrigation pipelines encountered during drilling. Please refer to Table T3 for additional details.

Table T3 – Summary of Borings/Samples Not Completed

Section/ Direction	Approximate Stationing No.(s)	Boring Nos. Not Completed	Borings (Samples)	Map Page (Layout)	Reason
300s WB	564+00	570-310	1 (5)	L-9	Water Line Encountered
400s EB	556+00 to 569+00	570-402 through -407	6 (30)	L-7/L-8	Paved Shoulder
600s EB	571+00 to 576+00	570-604 through -609	6 (30)	L-12/L-13	Paved Shoulder
700s WB	591+00	570-705	1 (5)	L-18	Water Line Encountered
800s EB	593+00	570-806	1 (5)	L-19	Water Line Encountered

Notes:
WB – westbound
EB – eastbound

5.1.1. Field Quality Assurance/Quality Control (QA/QC)

In order to reduce the likelihood of cross-contamination, sampling equipment was decontaminated between borings. Equipment was washed in a solution of non-phosphate detergent, rinsed in clear water, rinsed with distilled water, and dried. To evaluate the effectiveness of the decontamination procedures, one equipment rinsate blank was collected for each COC (13 samples total). The samples were collected by pouring deionized water through/over decontaminated equipment and collecting the water in laboratory-supplied containers. The samples were analyzed for total lead. The highest detectable concentration of lead was 0.01 mg/l. The results of the analysis of the equipment rinsate blanks are indicative of thorough decontamination.

5.2. Laboratory Results

Table T4 summarizes the laboratory results (TTLC, STLC, DI-WET, and TCLP) for Segment 2. The attached Tables 1 and 2 contain all of the soil sample results as well as equipment rinsate results. The laboratory reports are included in Appendix A.

Table T4 – Summary of Laboratory Results (Entire Segment 2)

	TTLC (mg/kg)			STLC (mg/l)		DI-WET (mg/l)		TCLP (mg/l)	
Maximum Concentration (Sample ID)	3,200 (570-517-0)			120 (570-515-0.3)		1.6 (570-102-0)		19 (570-110-0.6)	
Concentration	< 50	50 to 999	≥ 1,000	< 5	≥ 5	< 0.5	≥ 0.5	< 5	≥ 5
Number of Samples	277	216	25	54	162	149	13	122	7

Notes:
TTLC – Total Threshold Limit Concentration
STLC – Soluble Threshold Limit Concentration
DI-WET – deionized water extraction
TCLP – Toxicity Characteristic Leaching Procedure
mg/kg – milligrams per kilogram
mg/l – milligrams per liter

Per the variance and Assembly Bill 414, Caltrans may reuse fill soil containing less than 1,496 mg/kg of total lead (TTLC). In Segment 2, eight samples contained 1,496 mg/kg or more of total lead (TTLC). If the soil contains less than 0.5 mg/l of soluble lead (DI-WET), the soil must be placed a minimum of 1.5 m above the maximum water table elevation and covered with at least 0.3 m of non-hazardous soil. If the soil contains 0.5 mg/l or more of soluble lead (DI-WET), the cover must be a pavement structure maintained by Caltrans. The pH values ranged between 5.8 (570-209-0) and 9.1 (570-105-0) for Segment 2. Since the range of pH values is greater than 5.0 (the lower limit provided in the variance), no additional limitations are applicable.

Evaluation of TCLP concentrations is not referred to in the variance. Federal regulations indicate that waste soil containing 5 mg/l or more of lead by TCLP analyses be classified as a Resource, Conservation, and Recovery Act (RCRA)-regulated hazardous waste for disposal purposes. If a layer is found to contain samples with TCLP results of 5 mg/l or more, additional in-ground and/or stockpile soil sampling could be performed near these sample locations during construction activities.

As presented below, Table T5 summarizes the laboratory results (TTLC, STLC, DI-WET, and TCLP) for Segment 2 (Westbound Sections).

Table T5 – Summary of Laboratory Results for Segment 2 (Westbound Sections)

	TTLC (mg/kg)			**STLC (mg/l)**		**DI-WET (mg/l)**		**TCLP (mg/l)**	
Maximum Concentration (Sample ID)	3,200 (570-517-0)			120 (570-515-0.3)		1.6 (570-102-0)		19 (570-110-0.6)	
Concentration	< 50	50 to 999	≥ 1,000	< 5	≥ 5	< 0.5	≥ 0.5	< 5	≥ 5
Number of Samples	183	113	17	29	84	73	11	68	6

Notes:
TTLC – Total Threshold Limit Concentration
STLC – Soluble Threshold Limit Concentration
DI-WET – deionized water extraction
TCLP – Toxicity Characteristic Leaching Procedure
mg/kg – milligrams per kilogram
mg/l – milligrams per liter

As presented below, Table T6 summarizes the laboratory results (TTLC, STLC, DI-WET, and TCLP) for Segment 2 (Eastbound Sections).

Table T6 – Summary of Laboratory Results for Segment 2 (Eastbound Sections)

	TTLC (mg/kg)			STLC (mg/l)		DI-WET (mg/l)		TCLP (mg/l)	
Maximum Concentration (Sample ID)	1,900 (570-610-0.6)			110 (570-811-0)		0.93 (570-808-0)		12 (570-610-0.6)	
Concentration	< 50	50 to 999	≥ 1,000	< 5	≥ 5	< 0.5	≥ 0.5	< 5	≥ 5
Number of Samples	94	103	8	25	78	76	2	54	1

Notes:
TTLC – Total Threshold Limit Concentration
STLC – Soluble Threshold Limit Concentration
DI-WET – deionized water extraction
TCLP – Toxicity Characteristic Leaching Procedure
mg/kg – milligrams per kilogram
mg/l – milligrams per liter

Thirty-five (35) samples were analyzed for Title 22 metals (excluding lead). No metals concentrations exceeded their respective TTLCs. Six samples contained concentrations of selenium that exceeded 10 times the STLC for selenium as summarized in Table T7. The results for all samples analyzed for Title 22 metals are presented in the attached Table 2.

Table T7 – Summary of Laboratory Results for Elevated Metals

Sample ID	Metal (Symbol) Detected	Concentration (mg/kg)	10xSTLC (mg/kg)	TTLC (mg/kg)
570-505-1.5	Selenium (Se)	11	10	100
570-703-0.3	Selenium (Se)	10	10	100
570-706-0	Selenium (Se)	12	10	100
570-709-0	Selenium (Se)	15	10	100
570-711-1.5	Selenium (Se)	10	10	100
570-812-0.3	Selenium (Se)	12	10	100

Notes:
mg/kg – milligrams per kilogram
STLC – Soluble Threshold Limit Concentration
TTLC – Total Threshold Limit Concentration

5.2.1. Laboratory QA/QC

ATL conducted laboratory QA/QC in accordance with Statewide Contract No. 43A0078. QA/QC procedures included analyses of method blanks, duplicate samples, and spiked samples. These procedures are included in the analytical reports presented in Appendix A of this report.

6. STATISTICAL EVALUATION

A statistical evaluation on the laboratory results was completed in with the procedures outlined in Chapter 9 of the EPA's SW-846 for each area. For samples having lead concentrations below the method detection limit, the laboratory supplied an estimated lead concentration which ranged from zero to the detection limit for their respective analyte. This laboratory-supplied value was used for the purpose of statistical evaluation. This method is less arbitrary than using one-half of the detection limit.

A histogram of each dataset was developed to determine normality of the data (Appendix D). Datasets for each area are not normally distributed but skewed generally to the left.

As required by the TO, these analyses were done for the 90 percent and 95 percent upper confidence limits (UCLs). The 90 percent UCL was used to determine whether the DTSC variance could be invoked; the 95 percent UCL was used to evaluate off-site handling and disposal options for soil to be relinquished to a contractor or disposed outside the Caltrans ROW as per the Health and Safety Code disposal criteria. When evaluating whether the DTSC variance (90 percent UCL) applies, a maximum total lead concentration of 1,496 mg/kg and a soluble lead concentration of 5 mg/l were used; for evaluation of soil handling and disposal (95 percent UCL), a maximum total lead concentration of 350 mg/kg and a soluble lead concentration of 5 mg/l were used.

A correlation function for the eastbound samples of Segment 2 and for the westbound samples of Segment 2 between the total and soluble lead concentrations was established (Appendix E) by calculating the correlation coefficient for each data set. As described in Gilbert's "Statistical

Methods for Environmental Pollution Monitoring," dated 1987, a visual inspection of the plots of STLC values versus TTLC values for the westbound and eastbound portions of this segment were made. For the westbound portion, fourteen data points (570-103-0, 570-108-0, 570-114-0, 570-301-0, 570-303-0, 570-305-0, 570-504-0.9, 570-506-0.9, 570-508-0.3, 570-515-0.3, 570-709-0.6, 570-709-1.5, 570-711-0.6, and 570-713-0.3) were observed to be far removed from the main cloud of points. For the eastbound portion, one data point (570-811-1.5) was observed to be far removed from the main cloud of points. These data points were considered outliers and removed from the data sets used to generate the regression lines for Segment 2 westbound and eastbound. The purpose of calculating the correlation coefficient for each TTLC/STLC data set is to evaluate the strength of the association between TTLC and STLC. Once the association has been evaluated, the 90 percent and 95 percent UCL TTLC value can be used to predict the 90 percent and 95 percent, respectively, UCL STLC value through a linear relationship.

For a set of variable pairs, the correlation coefficient gives the strength of the association. The square of the size of the correlation coefficient is the fraction of the variance of the one variable that can be explained from the variance of the other variable. The relation between the variables is called the regression line. The regression line is defined as the best fitting straight line through all value pairs, i.e., the one explaining the largest part of the variance.

It is important to note that this type of correlation is able to show whether two variables are connected. However, it is not able to show whether the variables are not connected. If one variable depends on another, i.e., there is a causal relation, then it is always possible to find some kind of correlation between the two variables. However, if both variables depend on a third (i.e., soil pH), they can show a sizable correlation without any causal dependency between them. All TTLC/STLC data pairs were used to establish each correlation function. Correlation functions are shown on Figures E-1 and E-2.

The procedure used to predict the soluble lead concentration was to calculate the correlation co-efficient *R* of the pairs (TTLC, STLC) for each area using the following equation:

$$R = \frac{\{\text{Sum}(\text{TTLC}*\text{STLC})-\text{Sum}(\text{TTLC})*\text{Sum}(\text{STLC})/N\}}{\text{sqrt}(\{\text{Sum}(\text{TTLC}**2)-\text{Sum}(\text{TTLC})**2/N\}*\{\text{Sum}(\text{STLC}**2)-\text{Sum}(\text{STLC})**2/N\})}$$

The regression line STLC=*a**TTLC+*b* is calculated as:

a = {Sum(TTLC*STLC)-Sum(TTLC)*Sum(STLC)/*N*}/{Sum(TTLC**2)-Sum(TTLC)**2/*N*}
b = Sum(STLC)/*N*-*a**Sum(TTLC)/*N*

The resulting correlation coefficients for the two directions are:

Segment 2 Westbound R = 0.8029
Segment 2 Eastbound R = 0.8003

The resulting regression lines for the two directions are:

Segment 2 Westbound y = 0.0693x - 0.8831
Segment 2 Eastbound y = 0.0736x - 0.3709

It appears that the relationship between the TTLC/STLC data sets is different in each area. Those differences are likely related to environmental conditions such as soil type, moisture content, biological activity, as well as physical conditions like traffic patterns over time.

The data analysis tables are presented in Appendix C. In accordance with the TO, statistical analyses were performed on each area independently. Each area was evaluated as described in Section C of the TO. The statistical datasets can be found in Tables C-1 through C-72 (Appendix C).

In general, first the mean and variance of the total lead for each data set were calculated. These values are shown in Tables C-1 through C-72. In each case, the mean was less than the variance. For total lead concentrations, the difference between the mean and variance was one to several orders of magnitude. In accordance with SW-846, the data were transformed with an arcsine transformation, and the subsequent calculations were done with the transformed data. To transform the data, the data were first converted to percentages of the maximum value in accordance with SW-846 (see Tables C-1 through C-72).

The arcsine-transformed data are listed in the bottom portion of each table (C-1 through C-72). Statistical "t" values were established for 90 percent and 95 percent UCLs based on the degrees of freedom of each data set, and 90 percent and 95 percent UCLs were calculated for each data set. The calculated values were "back transformed" to convert them to concentration values (see line Reverse Transformation for 90 / 95 % on Tables C-1 through C-72). These are listed at the bottom of each of the tables.

As shown on Table T8, there are some instances when deeper layers or combinations of deeper layers contain higher lead concentrations than some shallower layers or combinations of layers. This trend was noted in some instances during completion by Ninyo & Moore of another TO situated within the boundaries of this TO. TO 07-023141-SN was for sampling at locations of potential soundwalls on the I-10 in West Covina. Our report on this TO was dated May 31, 2002. One possible explanation for this trend is that in some areas shallower soils may be fill material emplaced over the original shoulder surface. The original shoulder surface could have been exposed to ADL when leaded gas was common and then covered with imported soil which was exposed to ADL for fewer years, including years after the removal of lead from gasoline.

The results of the statistical analyses are summarized in Table T8 below.

Table T8 – Summary of Statistical Analyses

Section/ Direction	Depth (meters bsg)	Total Lead		Soluble Lead	
		90% UCL (mg/kg)	95% UCL (mg/kg)	90% UCL (mg/l)	95% UCL (mg/l)
100s WB	Layers Combined	337.45	359.01	22.50	24.00
100s WB	Surface	682.87	759.42	46.44	51.74
100s WB	0.3, 0.6, 0.9, 1.5	298.05	317.61	19.77	21.13
100s WB	Surface, 0.3	446.56	487.27	30.06	32.88
100s WB	0.6, 0.9, 1.5	334.26	359.59	22.28	24.04
100s WB	Surface, 0.3, 0.6	428.01	457.96	28.78	30.85
100s WB	0.9, 1.5	219.99	243.43	14.36	15.99
100s WB	Surface, 0.3, 0.6, 0.9	358.20	382.72	23.94	25.64
100s WB	1.5	411.56	463.42	27.64	31.23
300s WB	Layers Combined	216.14	234.42	14.10	15.36
300s WB	Surface	314.41	350.34	20.91	23.40
300s WB	0.3, 0.6, 0.9, 1.5	227.92	250.35	14.91	16.47
300s WB	Surface, 0.3	201.14	219.80	13.06	14.35
300s WB	0.6, 0.9, 1.5	282.46	313.17	18.69	20.82
300s WB	Surface, 0.3, 0.6	316.77	345.08	21.07	23.03
300s WB	0.9, 1.5	102.92	117.28	6.25	7.24
300s WB	Surface, 0.3, 0.6, 0.9	248.25	270.30	16.32	17.85
300s WB	1.5	193.71	223.48	12.54	14.60
500s WB	Layers Combined	279.77	303.14	18.50	20.12
500s WB	Surface	881.96	985.97	60.24	67.44
500s WB	0.3, 0.6, 0.9, 1.5	166.85	180.61	10.68	11.63
500s WB	Surface, 0.3	516.56	570.42	34.91	38.65
500s WB	0.6, 0.9, 1.5	157.98	169.24	10.06	10.85
500s WB	Surface, 0.3, 0.6	416.18	453.43	27.96	30.54
500s WB	0.9, 1.5	101.05	111.68	6.12	6.86
500s WB	Surface, 0.3, 0.6, 0.9	340.79	369.49	22.73	24.72
500s WB	1.5	24.06	25.61	0.78	0.89
700s WB	Layers Combined	320.41	340.78	21.32	22.73
700s WB	Surface	715.43	772.02	48.70	52.62
700s WB	0.3, 0.6, 0.9, 1.5	241.59	260.40	15.86	17.16

Table T8 – Summary of Statistical Analyses

Section/ Direction	Depth (meters bsg)	Total Lead		Soluble Lead	
		90% UCL (mg/kg)	95% UCL (mg/kg)	90% UCL (mg/l)	95% UCL (mg/l)
700s WB	Surface, 0.3	460.57	496.49	31.03	33.52
700s WB	0.6, 0.9, 1.5	274.35	299.35	18.13	19.86
700s WB	Surface, 0.3, 0.6	451.99	479.72	30.44	32.36
700s WB	0.9, 1.5	151.11	174.64	9.59	11.22
700s WB	Surface, 0.3, 0.6, 0.9	360.46	383.76	24.10	25.71
700s WB	1.5	306.08	358.04	20.33	23.93
200s EB	Layers Combined	263.52	278.03	19.02	20.09
200s EB	Surface	507.08	543.12	36.95	39.60
200s EB	0.3, 0.6, 0.9, 1.5	186.62	199.31	13.36	14.30
200s EB	Surface, 0.3	356.01	377.88	25.83	27.44
200s EB	0.6, 0.9, 1.5	168.77	184.03	12.05	13.17
200s EB	Surface, 0.3, 0.6	303.30	320.45	21.95	23.21
200s EB	0.9, 1.5	113.49	124.54	7.98	8.80
200s EB	Surface, 0.3, 0.6, 0.9	277.63	293.19	20.06	21.21
200s EB	1.5	179.73	201.92	12.86	14.49
400s EB	Layers Combined	190.99	210.15	13.69	15.10
400s EB	Surface	NA	NA	NA	NA
400s EB	0.3, 0.6, 0.9, 1.5	128.14	142.61	9.06	10.13
400s EB	Surface, 0.3	306.09	336.05	22.16	24.36
400s EB	0.6, 0.9, 1.5	76.93	83.23	5.29	5.76
400s EB	Surface, 0.3, 0.6	252.33	278.78	18.20	20.15
400s EB	0.9, 1.5	91.16	97.43	6.34	6.80
400s EB	Surface, 0.3, 0.6, 0.9	217.65	239.90	15.65	17.29
400s EB	1.5	NA	NA	NA	NA
600s EB	Layers Combined	276.24	297.79	19.96	21.55
600s EB	Surface	479.79	521.56	34.94	38.02
600s EB	0.3, 0.6, 0.9, 1.5	260.57	287.92	18.81	20.82
600s EB	Surface, 0.3	285.60	308.76	20.65	22.35
600s EB	0.6, 0.9, 1.5	361.34	403.40	26.22	29.32
600s EB	Surface, 0.3, 0.6	360.16	389.23	26.14	28.28
600s EB	0.9, 1.5	109.70	124.36	7.70	8.78
600s EB	Surface, 0.3, 0.6, 0.9	300.89	324.32	21.77	23.50
600s EB	1.5	9.65	10.26	0.34	0.38

Table T8 – Summary of Statistical Analyses

Section/ Direction	Depth (meters bsg)	Total Lead		Soluble Lead	
		90% UCL (mg/kg)	95% UCL (mg/kg)	90% UCL (mg/l)	95% UCL (mg/l)
800s EB	Layers Combined	245.79	264.79	17.72	19.12
800s EB	Surface	403.62	454.28	29.34	33.06
800s EB	0.3, 0.6, 0.9, 1.5	252.80	275.48	18.24	19.90
800s EB	Surface, 0.3	338.52	371.33	24.54	26.96
800s EB	0.6, 0.9, 1.5	273.73	303.20	19.78	21.94
800s EB	Surface, 0.3, 0.6	394.90	427.92	28.69	31.12
800s EB	0.9, 1.5	94.64	104.71	6.59	7.34
800s EB	Surface, 0.3, 0.6, 0.9	271.56	292.75	19.62	21.18
800s EB	1.5	94.62	109.53	6.59	7.69

Notes:
meters bsg – meters below surface grade
UCL – upper confidence limit
mg/kg – milligrams per kilogram
mg/l – milligrams per liter
WB – westbound
EB – eastbound
NA – Insufficient data to perform statistical analyses.

The pH concentrations of the samples analyzed from Segment 2 were above 5.0 and, therefore, have no bearing on soil disposition in accordance with the DTSC variance.

The results for the TCLP analyses are summarized in Table T9 below.

Table T9 – Summary of TCLP Analyses

Section/Direction	Depth (meters bsg)	TCLP (mg/l)	
		Minimum Result	Maximum Result
100s WB	Surface	0.52	8.4
100s WB	0.3	0.09	3
100s WB	0.6	0.29	19
100s WB	0.9	ND	5.2
100s WB	1.5	0.57	2.3
300s WB	Surface	0.1	1.3
300s WB	0.3	0.2	0.23
300s WB	0.6	0.72	5.8
300s WB	0.9	NA	NA
300s WB	1.5	2.5	2.5
500s WB	Surface	0.09	6.6
500s WB	0.3	0.1	0.89
500s WB	0.6	0.22	3.7
500s WB	0.9	0.99	0.99
500s WB	1.5	NA	NA
700s WB	Surface	0.2	1.6
700s WB	0.3	0.35	3.5
700s WB	0.6	0.23	1.4
700s WB	0.9	NA	NA
700s WB	1.5	NA	NA
200s EB	Surface	0.1	3.5
200s EB	0.3	0.2	1.9
200s EB	0.6	0.57	0.78
200s EB	0.9	NA	NA
200s EB	1.5	NA	NA
400s EB	Surface	0.09	0.95
400s EB	0.3	0.06	1.7
400s EB	0.6	ND	0.07
400s EB	0.9	0.2	0.2
400s EB	1.5	ND	0.08

Table T9 – Summary of TCLP Analyses

Section/Direction	Depth (meters bsg)	TCLP (mg/l)	
		Minimum Result	Maximum Result
600s EB	Surface	0.05	0.8
600s EB	0.3	0.1	1
600s EB	0.6	0.45	12
600s EB	0.9	0.84	0.84
600s EB	1.5	NA	NA
800s EB	Surface	ND	2.8
800s EB	0.3	2.9	2.9
800s EB	0.6	0.1	3.2
800s EB	0.9	0.43	0.46
800s EB	1.5	1.4	1.4

Notes:
TCLP – Toxicity Characteristic Leaching Procedure
meters bsg – meters below surface grade
mg/l – milligrams per liter
WB – westbound
EB – eastbound
ND – not detected above laboratory detection limits
NA – not analyzed

7. DATA EVALUATION

Based upon the analytical results and subsequent statistical analysis, we have concluded the following as summarized in Tables T10 and T11:

Table T10 – Data Evaluation for 90% UCL Evaluation As It Applies to the Variance

Section/ Direction	Layer (meters bsg)	Mean Lead Concentration by TTLC (mg/kg)	Mean Lead Concentration by STLC (mg/l)	Samples with Soluble Lead between 0 and <0.5 mg/l by DI-WET	Samples with Soluble Lead ≥0.5 mg/l by DI-WET	Samples with Soluble Lead ≥5 mg/l by TCLP
100s WB	Layers Combined	<1,496	≥5	570-102-1.5 570-103-0.6 570-105-0.6 570-106-0 570-107-0.6 570-108-0 570-111-0 570-111-0.3 570-112-0.3 570-112-1.5 570-115-0.6 570-118-0 570-118-0.6 570-119-0 570-120-0.9 570-123-0	570-102-0 570-102-0.9 570-103-0 570-109-0.6 570-114-0 570-116-0 570-117-0 570-117-0.3 570-117-0.6 570-118-0.3	570-101-0 570-102-0.6 570-102-0.9 570-110-0.6
100s WB	Surface	<1,496	≥5	570-106-0 570-108-0 570-111-0 570-118-0 570-119-0 570-123-0	570-102-0 570-103-0 570-114-0 570-116-0 570-117-0	570-101-0
100s WB	0.3, 0.6, 0.9, 1.5	<1,496	≥5	570-102-1.5 570-103-0.6 570-105-0.6 570-107-0.6 570-111-0.3 570-112-0.3 570-112-1.5 570-115-0.6 570-118-0.6 570-120-0.9	570-102-0.9 570-109-0.6 570-117-0.3 570-117-0.6 570-118-0.3	570-102-0.6 570-102-0.9 570-110-0.6

Table T10 – Data Evaluation for 90% UCL Evaluation As It Applies to the Variance

Section/ Direction	Layer (meters bsg)	Mean Lead Concentration by TTLC (mg/kg)	Mean Lead Concentration by STLC (mg/l)	Samples with Soluble Lead between 0 and <0.5 mg/l by DI-WET	Samples with Soluble Lead ≥0.5 mg/l by DI-WET	Samples with Soluble Lead ≥5 mg/l by TCLP
100s WB	Surface, 0.3	<1,496	≥5	570-106-0 570-108-0 570-111-0 570-111-0.3 570-112-0.3 570-118-0 570-119-0 570-123-0	570-102-0 570-103-0 570-114-0 570-116-0 570-117-0 570-117-0.3 570-118-0.3	570-101-0
100s WB	0.6, 0.9, 1.5	<1,496	≥5	570-102-1.5 570-103-0.6 570-105-0.6 570-107-0.6 570-112-1.5 570-115-0.6 570-118-0.6 570-120-0.9	570-102-0.9 570-109-0.6 570-117-0.6	570-102-0.6 570-102-0.9 570-110-0.6
100s WB	Surface, 0.3, 0.6	<1,496	≥5	570-103-0.6 570-105-0.6 570-106-0 570-107-0.6 570-108-0 570-111-0 570-111-0.3 570-112-0.3 570-115-0.6 570-118-0 570-118-0.6 570-119-0 570-123-0	570-102-0 570-103-0 570-109-0.6 570-114-0 570-116-0 570-117-0 570-117-0.3 570-117-0.6 570-118-0.3	570-101-0 570-102-0.6 570-110-0.6
100s WB	0.9, 1.5	<1,496	≥5	570-102-1.5 570-112-1.5 570-120-0.9	570-102-0.9	570-102-0.9

Table T10 – Data Evaluation for 90% UCL Evaluation As It Applies to the Variance

Section/ Direction	Layer (meters bsg)	Mean Lead Concentration by TTLC (mg/kg)	Mean Lead Concentration by STLC (mg/l)	Samples with Soluble Lead between 0 and <0.5 mg/l by DI-WET	Samples with Soluble Lead ≥0.5 mg/l by DI-WET	Samples with Soluble Lead ≥5 mg/l by TCLP
100s WB	Surface, 0.3, 0.6, 0.9	<1,496	≥5	570-103-0.6 570-105-0.6 570-106-0 570-107-0.6 570-108-0 570-111-0 570-111-0.3 570-112-0.3 570-115-0.6 570-118-0 570-118-0.6 570-119-0 570-120-0.9 570-123-0	570-102-0 570-102-0.9 570-103-0 570-109-0.6 570-114-0 570-116-0 570-117-0 570-117-0.3 570-117-0.6 570-118-0.3	570-101-0 570-102-0.6 570-102-0.9 570-110-0.6
100s WB	1.5	<1,496	≥5	570-102-1.5 570-112-1.5	NA	NA
300s WB	Layers Combined	<1,496	≥5	570-301-0 570-301-0.3 570-304-0 570-304-0.3 570-305-0 570-311-1.5 570-313-0.6 570-314-0 570-317-0	NA	570-311-0.6
300s WB	Surface	<1,496	≥5	570-301-0 570-304-0 570-305-0 570-314-0 570-317-0	NA	NA
300s WB	0.3, 0.6, 0.9, 1.5	<1,496	≥5	570-301-0.3 570-304-0.3 570-311-1.5 570-313-0.6	NA	570-311-0.6
300s WB	Surface, 0.3	<1,496	≥5	570-301-0 570-301-0.3 570-304-0 570-304-0.3 570-305-0 570-314-0 570-317-0	NA	NA

Table T10 – Data Evaluation for 90% UCL Evaluation As It Applies to the Variance

Section/ Direction	Layer (meters bsg)	Mean Lead Concentration by TTLC (mg/kg)	Mean Lead Concentration by STLC (mg/l)	Samples with Soluble Lead between 0 and <0.5 mg/l by DI-WET	Samples with Soluble Lead ≥0.5 mg/l by DI-WET	Samples with Soluble Lead ≥5 mg/l by TCLP
300s WB	0.6, 0.9, 1.5	<1,496	≥5	570-311-1.5 570-313-0.6	NA	570-311-0.6
300s WB	Surface, 0.3, 0.6	<1,496	≥5	570-301-0 570-301-0.3 570-304-0 570-304-0.3 570-305-0 570-313-0.6 570-314-0 570-317-0	NA	570-311-0.6
300s WB	0.9, 1.5	<1,496	≥5	570-311-1.5	NA	NA
300s WB	Surface, 0.3, 0.6, 0.9	<1,496	≥5	570-301-0 570-301-0.3 570-304-0 570-304-0.3 570-305-0 570-313-0.6 570-314-0 570-317-0	NA	570-311-0.6
300s WB	1.5	<1,496	≥5	570-311-1.5	NA	NA
500s WB	Layers Combined	<1,496	≥5	570-503-0.6 570-505-0.6 570-506-0 570-508-0.6 570-509-0.9 570-513-0	570-504-0.6	570-517-0
500s WB	Surface	<1,496	≥5	570-506-0 570-513-0	NA	570-517-0
500s WB	0.3, 0.6, 0.9, 1.5	<1,496	≥5	570-503-0.6 570-505-0.6 570-508-0.6 570-509-0.9	570-504-0.6	NA
500s WB	Surface, 0.3	<1,496	≥5	570-506-0 570-513-0	NA	570-517-0
500s WB	0.6, 0.9, 1.5	<1,496	≥5	570-503-0.6 570-505-0.6 570-508-0.6 570-509-0.9	570-504-0.6	NA

Table T10 – Data Evaluation for 90% UCL Evaluation As It Applies to the Variance

Section/ Direction	Layer (meters bsg)	Mean Lead Concentration by TTLC (mg/kg)	Mean Lead Concentration by STLC (mg/l)	Samples with Soluble Lead between 0 and <0.5 mg/l by DI-WET	Samples with Soluble Lead ≥0.5 mg/l by DI-WET	Samples with Soluble Lead ≥5 mg/l by TCLP
500s WB	Surface, 0.3, 0.6	<1,496	≥5	570-503-0.6 570-505-0.6 570-506-0 570-508-0.6 570-513-0	570-504-0.6	570-517-0
500s WB	0.9, 1.5	<1,496	≥5	570-509-0.9	NA	NA
500s WB	Surface, 0.3, 0.6, 0.9	<1,496	≥5	570-503-0.6 570-505-0.6 570-506-0 570-508-0.6 570-509-0.9 570-513-0	570-504-0.6	570-517-0
500s WB	1.5	<1,496	<5	NA	NA	NA
700s WB	Layers Combined	<1,496	≥5	570-701-0 570-703-0 570-704-0 570-704-0.3 570-706-0.3 570-707-0.6 570-709-0.6 570-711-0.6 570-712-0 570-713-0 570-713-0.3 570-713-0.6	NA	NA
700s WB	Surface	<1,496	≥5	570-701-0 570-703-0 570-704-0 570-712-0 570-713-0	NA	NA
700s WB	0.3, 0.6, 0.9, 1.5	<1,496	≥5	570-704-0.3 570-706-0.3 570-707-0.6 570-709-0.6 570-711-0.6 570-713-0.3 570-713-0.6	NA	NA

Table T10 – Data Evaluation for 90% UCL Evaluation As It Applies to the Variance

Section/ Direction	Layer (meters bsg)	Mean Lead Concentration by TTLC (mg/kg)	Mean Lead Concentration by STLC (mg/l)	Samples with Soluble Lead between 0 and <0.5 mg/l by DI-WET	Samples with Soluble Lead ≥0.5 mg/l by DI-WET	Samples with Soluble Lead ≥5 mg/l by TCLP
700s WB	Surface, 0.3	<1,496	≥5	570-701-0 570-703-0 570-704-0 570-704-0.3 570-706-0.3 570-712-0 570-713-0 570-713-0.3	NA	NA
700s WB	0.6, 0.9, 1.5	<1,496	≥5	570-707-0.6 570-709-0.6 570-711-0.6 570-713-0.6	NA	NA
700s WB	Surface, 0.3, 0.6	<1,496	≥5	570-701-0 570-703-0 570-704-0 570-704-0.3 570-706-0.3 570-707-0.6 570-709-0.6 570-711-0.6 570-712-0 570-713-0 570-713-0.3 570-713-0.6	NA	NA
700s WB	0.9, 1.5	<1,496	≥5	NA	NA	NA
700s WB	Surface, 0.3, 0.6, 0.9	<1,496	≥5	570-701-0 570-703-0 570-704-0 570-704-0.3 570-706-0.3 570-707-0.6 570-709-0.6 570-711-0.6 570-712-0 570-713-0 570-713-0.3 570-713-0.6	NA	NA
700s WB	1.5	<1,496	≥5	NA	NA	NA

Table T10 – Data Evaluation for 90% UCL Evaluation As It Applies to the Variance

Section/ Direction	Layer (meters bsg)	Mean Lead Concentration by TTLC (mg/kg)	Mean Lead Concentration by STLC (mg/l)	Samples with Soluble Lead between 0 and <0.5 mg/l by DI-WET	Samples with Soluble Lead ≥0.5 mg/l by DI-WET	Samples with Soluble Lead ≥5 mg/l by TCLP
200s EB	Layers Combined	<1,496	≥5	570-201-1.5 570-202-0 570-202-0.3 570-202-0.9 570-202-1.5 570-203-0 570-203-0.3 570-203-0.6 570-204-0 570-204-0.3 570-206-0 570-206-0.3 570-206-0.6 570-207-0 570-207-0.3 570-207-0.6 570-208-0.3 570-208-0.6 570-209-0 570-209-0.3 570-209-0.6 570-210-0 570-210-0.6 570-211-0 570-212-0 570-213-0 570-214-0.3 570-217-0 570-218-0 570-219-0.6 570-221-0 570-223-0	NA	NA

Table T10 – Data Evaluation for 90% UCL Evaluation As It Applies to the Variance

Section/ Direction	Layer (meters bsg)	Mean Lead Concentration by TTLC (mg/kg)	Mean Lead Concentration by STLC (mg/l)	Samples with Soluble Lead between 0 and <0.5 mg/l by DI-WET	Samples with Soluble Lead ≥0.5 mg/l by DI-WET	Samples with Soluble Lead ≥5 mg/l by TCLP
200s EB	Surface	<1,496	≥5	570-202-0 570-203-0 570-204-0 570-206-0 570-207-0 570-209-0 570-210-0 570-211-0 570-212-0 570-213-0 570-217-0 570-218-0 570-221-0 570-223-0	NA	NA
200s EB	0.3, 0.6, 0.9, 1.5	<1,496	≥5	570-201-1.5 570-202-0.3 570-202-0.9 570-202-1.5 570-203-0.3 570-203-0.6 570-204-0.3 570-206-0.3 570-206-0.6 570-207-0.3 570-207-0.6 570-208-0.3 570-208-0.6 570-209-0.3 570-209-0.6 570-210-0.6 570-214-0.3 570-219-0.6	NA	NA

Table T10 – Data Evaluation for 90% UCL Evaluation As It Applies to the Variance

Section/ Direction	Layer (meters bsg)	Mean Lead Concentration by TTLC (mg/kg)	Mean Lead Concentration by STLC (mg/l)	Samples with Soluble Lead between 0 and <0.5 mg/l by DI-WET	Samples with Soluble Lead ≥0.5 mg/l by DI-WET	Samples with Soluble Lead ≥5 mg/l by TCLP
200s EB	Surface, 0.3	<1,496	≥5	570-202-0 570-202-0.3 570-203-0 570-203-0.3 570-204-0 570-204-0.3 570-206-0 570-206-0.3 570-207-0 570-207-0.3 570-208-0.3 570-209-0 570-209-0.3 570-210-0 570-211-0 570-212-0 570-213-0 570-214-0.3 570-217-0 570-218-0 570-221-0 570-223-0	NA	NA
200s EB	0.6, 0.9, 1.5	<1,496	≥5	570-201-1.5 570-202-0.9 570-202-1.5 570-203-0.6 570-206-0.6 570-207-0.6 570-208-0.6 570-209-0.6 570-210-0.6 570-219-0.6	NA	NA

Table T10 – Data Evaluation for 90% UCL Evaluation As It Applies to the Variance

Section/ Direction	Layer (meters bsg)	Mean Lead Concentration by TTLC (mg/kg)	Mean Lead Concentration by STLC (mg/l)	Samples with Soluble Lead between 0 and <0.5 mg/l by DI-WET	Samples with Soluble Lead ≥0.5 mg/l by DI-WET	Samples with Soluble Lead ≥5 mg/l by TCLP
200s EB	Surface, 0.3, 0.6	<1,496	≥5	570-202-0 570-202-0.3 570-203-0 570-203-0.3 570-203-0.6 570-204-0 570-204-0.3 570-206-0 570-206-0.3 570-206-0.6 570-207-0 570-207-0.3 570-207-0.6 570-208-0.3 570-208-0.6 570-209-0 570-209-0.3 570-209-0.6 570-210-0 570-210-0.6 570-211-0 570-212-0 570-213-0 570-214-0.3 570-217-0 570-218-0 570-219-0.6 570-221-0 570-223-0	NA	NA
200s EB	0.9, 1.5	<1,496	≥5	570-201-1.5 570-202-0.9 570-202-1.5	NA	NA

Table T10 – Data Evaluation for 90% UCL Evaluation As It Applies to the Variance

Section/ Direction	Layer (meters bsg)	Mean Lead Concentration by TTLC (mg/kg)	Mean Lead Concentration by STLC (mg/l)	Samples with Soluble Lead between 0 and <0.5 mg/l by DI-WET	Samples with Soluble Lead ≥0.5 mg/l by DI-WET	Samples with Soluble Lead ≥5 mg/l by TCLP
200s EB	Surface, 0.3, 0.6, 0.9	<1,496	≥5	570-202-0 570-202-0.3 570-202-0.9 570-203-0 570-203-0.3 570-203-0.6 570-204-0 570-204-0.3 570-206-0 570-206-0.3 570-206-0.6 570-207-0 570-207-0.3 570-207-0.6 570-208-0.3 570-208-0.6 570-209-0 570-209-0.3 570-209-0.6 570-210-0 570-210-0.6 570-211-0 570-212-0 570-213-0 570-214-0.3 570-217-0 570-218-0 570-219-0.6 570-221-0 570-223-0	NA	NA
200s EB	1.5	<1,496	≥5	570-201-1.5 570-202-1.5	NA	NA
400s EB	Layers Combined	<1,496	≥5	570-401-0 570-401-0.3	NA	NA
400s EB	Surface	NA	NA	570-401-0	NA	NA
400s EB	0.3, 0.6, 0.9, 1.5	<1,496	≥5	570-401-0.3	NA	NA
400s EB	Surface, 0.3	<1,496	≥5	570-401-0 570-401-0.3	NA	NA
400s EB	0.6, 0.9, 1.5	<1,496	≥5	NA	NA	NA

Table T10 – Data Evaluation for 90% UCL Evaluation As It Applies to the Variance

Section/ Direction	Layer (meters bsg)	Mean Lead Concentration by TTLC (mg/kg)	Mean Lead Concentration by STLC (mg/l)	Samples with Soluble Lead between 0 and <0.5 mg/l by DI-WET	Samples with Soluble Lead ≥0.5 mg/l by DI-WET	Samples with Soluble Lead ≥5 mg/l by TCLP
400s EB	Surface, 0.3, 0.6	<1,496	≥5	570-401-0 570-401-0.3	NA	NA
400s EB	0.9, 1.5	<1,496	≥5	NA	NA	NA
400s EB	Surface, 0.3, 0.6, 0.9	<1,496	≥5	570-401-0 570-401-0.3	NA	NA
400s EB	1.5	NA	NA	NA	NA	NA
600s EB	Layers Combined	<1,496	≥5	570-603-0 570-603-0.3 570-603-0.6 570-613-0.6 570-614-0 570-614-0.6 570-615-0.6 570-616-0 570-616-0.3 570-616-0.6 570-617-0 570-617-0.3 570-618-0 570-619-0 570-620-0	NA	570-610-0.6
600s EB	Surface	<1,496	≥5	570-603-0 570-614-0 570-616-0 570-617-0 570-618-0 570-619-0 570-620-0	NA	NA
600s EB	0.3, 0.6, 0.9, 1.5	<1,496	≥5	570-603-0.3 570-603-0.6 570-613-0.6 570-614-0.6 570-615-0.6 570-616-0.3 570-616-0.6 570-617-0.3	NA	570-610-0.6

Table T10 – Data Evaluation for 90% UCL Evaluation As It Applies to the Variance

Section/ Direction	Layer (meters bsg)	Mean Lead Concentration by TTLC (mg/kg)	Mean Lead Concentration by STLC (mg/l)	Samples with Soluble Lead between 0 and <0.5 mg/l by DI-WET	Samples with Soluble Lead ≥0.5 mg/l by DI-WET	Samples with Soluble Lead ≥5 mg/l by TCLP
600s EB	Surface, 0.3	<1,496	≥5	570-603-0 570-603-0.3 570-614-0 570-616-0 570-616-0.3 570-617-0 570-617-0.3 570-618-0 570-619-0 570-620-0	NA	NA
600s EB	0.6, 0.9, 1.5	<1,496	≥5	570-603-0.6 570-613-0.6 570-614-0.6 570-615-0.6 570-616-0.6	NA	570-610-0.6
600s EB	Surface, 0.3, 0.6	<1,496	≥5	570-603-0 570-603-0.3 570-603-0.6 570-613-0.6 570-614-0 570-614-0.6 570-615-0.6 570-616-0 570-616-0.3 570-616-0.6 570-617-0 570-617-0.3 570-618-0 570-619-0 570-620-0	NA	570-610-0.6
600s EB	0.9, 1.5	<1,496	≥5	NA	NA	NA

Table T10 – Data Evaluation for 90% UCL Evaluation As It Applies to the Variance

Section/ Direction	Layer (meters bsg)	Mean Lead Concentration by TTLC (mg/kg)	Mean Lead Concentration by STLC (mg/l)	Samples with Soluble Lead between 0 and <0.5 mg/l by DI-WET	Samples with Soluble Lead ≥0.5 mg/l by DI-WET	Samples with Soluble Lead ≥5 mg/l by TCLP
600s EB	Surface, 0.3, 0.6, 0.9	<1,496	≥5	570-603-0 570-603-0.3 570-603-0.6 570-613-0.6 570-614-0 570-614-0.6 570-615-0.6 570-616-0 570-616-0.3 570-616-0.6 570-617-0 570-617-0.3 570-618-0 570-619-0 570-620-0	NA	570-610-0.6
600s EB	1.5	<1,496	<5	NA	NA	NA
800s EB	Layers Combined	<1,496	≥5	570-804-0.6 570-805-0.3 570-805-0.6 570-805-0.9 570-807-0.9 570-809-0.6 570-810-0 570-811-0 570-811-0.3 570-811-0.6 570-811-1.5 570-813-0.6	570-803-0.3 570-808-0	NA
800s EB	Surface	<1,496	≥5	570-810-0 570-811-0	570-808-0	NA

Table T10 – Data Evaluation for 90% UCL Evaluation As It Applies to the Variance

Section/ Direction	Layer (meters bsg)	Mean Lead Concentration by TTLC (mg/kg)	Mean Lead Concentration by STLC (mg/l)	Samples with Soluble Lead between 0 and <0.5 mg/l by DI-WET	Samples with Soluble Lead ≥0.5 mg/l by DI-WET	Samples with Soluble Lead ≥5 mg/l by TCLP
800s EB	0.3, 0.6, 0.9, 1.5	<1,496	≥5	570-804-0.6 570-805-0.3 570-805-0.6 570-805-0.9 570-807-0.9 570-809-0.6 570-811-0.3 570-811-0.6 570-811-1.5 570-813-0.6	570-803-0.3	NA
800s EB	Surface, 0.3	<1,496	≥5	570-805-0.3 570-810-0 570-811-0 570-811-0.3	570-803-0.3 570-808-0	NA
800s EB	0.6, 0.9, 1.5	<1,496	≥5	570-804-0.6 570-805-0.6 570-805-0.9 570-807-0.9 570-809-0.6 570-811-0.6 570-811-1.5 570-813-0.6	NA	NA
800s EB	Surface, 0.3, 0.6	<1,496	≥5	570-804-0.6 570-805-0.3 570-805-0.6 570-809-0.6 570-810-0 570-811-0 570-811-0.3 570-811-0.6 570-813-0.6	570-803-0.3 570-808-0	NA
800s EB	0.9, 1.5	<1,496	≥5	570-805-0.9 570-807-0.9 570-811-1.5	NA	NA

Table T10 – Data Evaluation for 90% UCL Evaluation As It Applies to the Variance

Section/ Direction	Layer (meters bsg)	Mean Lead Concentration by TTLC (mg/kg)	Mean Lead Concentration by STLC (mg/l)	Samples with Soluble Lead between 0 and <0.5 mg/l by DI-WET	Samples with Soluble Lead ≥0.5 mg/l by DI-WET	Samples with Soluble Lead ≥5 mg/l by TCLP
800s EB	Surface, 0.3, 0.6, 0.9	<1,496	≥5	570-804-0.6 570-805-0.3 570-805-0.6 570-805-0.9 570-807-0.9 570-809-0.6 570-810-0 570-811-0 570-811-0.3 570-811-0.6 570-813-0.6	570-803-0.3 570-808-0	NA
800s EB	1.5	<1,496	≥5	570-811-1.5	NA	NA

Notes:
UCL – upper confidence limit
meters bsg – meters below surface grade
TTLC – Total Threshold Limit Concentration
STLC – Soluble Threshold Limit Concentration
DI-WET – deionized water extraction
TCLP – Toxicity Characteristic Leaching Procedure
mg/kg – milligrams per kilogram
mg/l – milligrams per liter
WB – westbound
EB – eastbound
NA – not applicable

Table T11 – Data Evaluation for 95% UCL Evaluation As It Applies to Off-Site Disposal

Section/ Direction	Layer (meters bsg)	Mean Lead Concentration by TTLC (mg/kg)	Mean Lead Concentration by STLC (mg/l)	Samples With Soluble Lead between 0 and <0.5 mg/l by DI-WET	Samples With Soluble Lead ≥0.5 mg/l by DI-WET	Samples With Soluble Lead ≥5 mg/l by TCLP
100s WB	Layers Combined	≥350	≥5	570-102-1.5 570-103-0.6 570-105-0.6 570-106-0 570-107-0.6 570-108-0 570-111-0 570-111-0.3 570-112-0.3 570-112-1.5 570-115-0.6 570-118-0 570-118-0.6 570-119-0 570-120-0.9 570-123-0	570-102-0 570-102-0.9 570-103-0 570-109-0.6 570-114-0 570-116-0 570-117-0 570-117-0.3 570-117-0.6 570-118-0.3	570-101-0 570-102-0.6 570-102-0.9 570-110-0.6
100s WB	Surface	≥350	≥5	570-106-0 570-108-0 570-111-0 570-118-0 570-119-0 570-123-0	570-102-0 570-103-0 570-114-0 570-116-0 570-117-0	570-101-0
100s WB	0.3, 0.6, 0.9, 1.5	<350	≥5	570-102-1.5 570-103-0.6 570-105-0.6 570-107-0.6 570-111-0.3 570-112-0.3 570-112-1.5 570-115-0.6 570-118-0.6 570-120-0.9	570-102-0.9 570-109-0.6 570-117-0.3 570-117-0.6 570-118-0.3	570-102-0.6 570-102-0.9 570-110-0.6
100s WB	Surface, 0.3	≥350	≥5	570-106-0 570-108-0 570-111-0 570-111-0.3 570-112-0.3 570-118-0 570-119-0 570-123-0	570-102-0 570-103-0 570-114-0 570-116-0 570-117-0 570-117-0.3 570-118-0.3	570-101-0

Table T11 – Data Evaluation for 95% UCL Evaluation As It Applies to Off-Site Disposal

Section/ Direction	Layer (meters bsg)	Mean Lead Concentration by TTLC (mg/kg)	Mean Lead Concentration by STLC (mg/l)	Samples With Soluble Lead between 0 and <0.5 mg/l by DI-WET	Samples With Soluble Lead ≥0.5 mg/l by DI-WET	Samples With Soluble Lead ≥5 mg/l by TCLP
100s WB	0.6, 0.9, 1.5	≥350	≥5	570-102-1.5 570-103-0.6 570-105-0.6 570-107-0.6 570-112-1.5 570-115-0.6 570-118-0.6 570-120-0.9	570-102-0.9 570-109-0.6 570-117-0.6	570-102-0.6 570-102-0.9 570-110-0.6
100s WB	Surface, 0.3, 0.6	≥350	≥5	570-103-0.6 570-105-0.6 570-106-0 570-107-0.6 570-108-0 570-111-0 570-111-0.3 570-112-0.3 570-115-0.6 570-118-0 570-118-0.6 570-119-0 570-123-0	570-102-0 570-103-0 570-109-0.6 570-114-0 570-116-0 570-117-0 570-117-0.3 570-117-0.6 570-118-0.3	570-101-0 570-102-0.6 570-110-0.6
100s WB	0.9, 1.5	<350	≥5	570-102-1.5 570-112-1.5 570-120-0.9	570-102-0.9	570-102-0.9
100s WB	Surface, 0.3, 0.6, 0.9	≥350	≥5	570-103-0.6 570-105-0.6 570-106-0 570-107-0.6 570-108-0 570-111-0 570-111-0.3 570-112-0.3 570-115-0.6 570-118-0 570-118-0.6 570-119-0 570-120-0.9 570-123-0	570-102-0 570-102-0.9 570-103-0 570-109-0.6 570-114-0 570-116-0 570-117-0 570-117-0.3 570-117-0.6 570-118-0.3	570-101-0 570-102-0.6 570-102-0.9 570-110-0.6
100s WB	1.5	≥350	≥5	570-102-1.5 570-112-1.5	NA	NA

Table T11 – Data Evaluation for 95% UCL Evaluation As It Applies to Off-Site Disposal

Section/ Direction	Layer (meters bsg)	Mean Lead Concentration by TTLC (mg/kg)	Mean Lead Concentration by STLC (mg/l)	Samples With Soluble Lead between 0 and <0.5 mg/l by DI-WET	Samples With Soluble Lead ≥0.5 mg/l by DI-WET	Samples With Soluble Lead ≥5 mg/l by TCLP
300s WB	Layers Combined	<350	≥5	570-301-0 570-301-0.3 570-304-0 570-304-0.3 570-305-0 570-311-1.5 570-313-0.6 570-314-0 570-317-0	NA	570-311-0.6
300s WB	Surface	≥350	≥5	570-301-0 570-304-0 570-305-0 570-314-0 570-317-0	NA	NA
300s WB	0.3, 0.6, 0.9, 1.5	<350	≥5	570-301-0.3 570-304-0.3 570-311-1.5 570-313-0.6	NA	570-311-0.6
300s WB	Surface, 0.3	<350	≥5	570-301-0 570-301-0.3 570-304-0 570-304-0.3 570-305-0 570-314-0 570-317-0	NA	NA
300s WB	0.6, 0.9, 1.5	<350	≥5	570-311-1.5 570-313-0.6	NA	570-311-0.6
300s WB	Surface, 0.3, 0.6	<350	≥5	570-301-0 570-301-0.3 570-304-0 570-304-0.3 570-305-0 570-313-0.6 570-314-0 570-317-0	NA	570-311-0.6
300s WB	0.9, 1.5	<350	≥5	570-311-1.5	NA	NA

Table T11 – Data Evaluation for 95% UCL Evaluation As It Applies to Off-Site Disposal

Section/ Direction	Layer (meters bsg)	Mean Lead Concentration by TTLC (mg/kg)	Mean Lead Concentration by STLC (mg/l)	Samples With Soluble Lead between 0 and <0.5 mg/l by DI-WET	Samples With Soluble Lead ≥0.5 mg/l by DI-WET	Samples With Soluble Lead ≥5 mg/l by TCLP
300s WB	Surface, 0.3, 0.6, 0.9	<350	≥5	570-301-0 570-301-0.3 570-304-0 570-304-0.3 570-305-0 570-313-0.6 570-314-0 570-317-0	NA	570-311-0.6
300s WB	1.5	<350	≥5	570-311-1.5	NA	NA
500s WB	Layers Combined	<350	≥5	570-503-0.6 570-505-0.6 570-506-0 570-508-0.6 570-509-0.9 570-513-0	570-504-0.6	570-517-0
500s WB	Surface	≥350	≥5	570-506-0 570-513-0	NA	570-517-0
500s WB	0.3, 0.6, 0.9, 1.5	<350	≥5	570-503-0.6 570-505-0.6 570-508-0.6 570-509-0.9	570-504-0.6	NA
500s WB	Surface, 0.3	≥350	≥5	570-506-0 570-513-0	NA	570-517-0
500s WB	0.6, 0.9, 1.5	<350	≥5	570-503-0.6 570-505-0.6 570-508-0.6 570-509-0.9	570-504-0.6	NA
500s WB	Surface, 0.3, 0.6	≥350	≥5	570-503-0.6 570-505-0.6 570-506-0 570-508-0.6 570-513-0	570-504-0.6	570-517-0
500s WB	0.9, 1.5	<350	≥5	570-509-0.9	NA	NA
500s WB	Surface, 0.3, 0.6, 0.9	≥350	≥5	570-503-0.6 570-505-0.6 570-506-0 570-508-0.6 570-509-0.9 570-513-0	570-504-0.6	570-517-0
500s WB	1.5	<350	<5	NA	NA	NA

Table T11 – Data Evaluation for 95% UCL Evaluation As It Applies to Off-Site Disposal

Section/ Direction	Layer (meters bsg)	Mean Lead Concentration by TTLC (mg/kg)	Mean Lead Concentration by STLC (mg/l)	Samples With Soluble Lead between 0 and <0.5 mg/l by DI-WET	Samples With Soluble Lead ≥0.5 mg/l by DI-WET	Samples With Soluble Lead ≥5 mg/l by TCLP
700s WB	Layers Combined	<350	≥5	570-701-0 570-703-0 570-704-0 570-704-0.3 570-706-0.3 570-707-0.6 570-709-0.6 570-711-0.6 570-712-0 570-713-0 570-713-0.3 570-713-0.6	NA	NA
700s WB	Surface	≥350	≥5	570-701-0 570-703-0 570-704-0 570-712-0 570-713-0	NA	NA
700s WB	0.3, 0.6, 0.9, 1.5	<350	≥5	570-704-0.3 570-706-0.3 570-707-0.6 570-709-0.6 570-711-0.6 570-713-0.3 570-713-0.6	NA	NA
700s WB	Surface, 0.3	≥350	≥5	570-701-0 570-703-0 570-704-0 570-704-0.3 570-706-0.3 570-712-0 570-713-0 570-713-0.3	NA	NA
700s WB	0.6, 0.9, 1.5	<350	≥5	570-707-0.6 570-709-0.6 570-711-0.6 570-713-0.6	NA	NA

Table T11 – Data Evaluation for 95% UCL Evaluation As It Applies to Off-Site Disposal

Section/ Direction	Layer (meters bsg)	Mean Lead Concentration by TTLC (mg/kg)	Mean Lead Concentration by STLC (mg/l)	Samples With Soluble Lead between 0 and <0.5 mg/l by DI-WET	Samples With Soluble Lead ≥0.5 mg/l by DI-WET	Samples With Soluble Lead ≥5 mg/l by TCLP
700s WB	Surface, 0.3, 0.6	≥350	≥5	570-701-0 570-703-0 570-704-0 570-704-0.3 570-706-0.3 570-707-0.6 570-709-0.6 570-711-0.6 570-712-0 570-713-0 570-713-0.3 570-713-0.6	NA	NA
700s WB	0.9, 1.5	<350	≥5	NA	NA	NA
700s WB	Surface, 0.3, 0.6, 0.9	≥350	≥5	570-701-0 570-703-0 570-704-0 570-704-0.3 570-706-0.3 570-707-0.6 570-709-0.6 570-711-0.6 570-712-0 570-713-0 570-713-0.3 570-713-0.6	NA	NA
700s WB	1.5	≥350	≥5	NA	NA	NA

Table T11 – Data Evaluation for 95% UCL Evaluation As It Applies to Off-Site Disposal

Section/ Direction	Layer (meters bsg)	Mean Lead Concentration by TTLC (mg/kg)	Mean Lead Concentration by STLC (mg/l)	Samples With Soluble Lead between 0 and <0.5 mg/l by DI-WET	Samples With Soluble Lead ≥0.5 mg/l by DI-WET	Samples With Soluble Lead ≥5 mg/l by TCLP
200s EB	Layers Combined	<350	≥5	570-201-1.5 570-202-0 570-202-0.3 570-202-0.9 570-202-1.5 570-203-0 570-203-0.3 570-203-0.6 570-204-0 570-204-0.3 570-206-0 570-206-0.3 570-206-0.6 570-207-0 570-207-0.3 570-207-0.6 570-208-0.3 570-208-0.6 570-209-0 570-209-0.3 570-209-0.6 570-210-0 570-210-0.6 570-211-0 570-212-0 570-213-0 570-214-0.3 570-217-0 570-218-0 570-219-0.6 570-221-0 570-223-0	NA	NA

Table T11 – Data Evaluation for 95% UCL Evaluation As It Applies to Off-Site Disposal

Section/ Direction	Layer (meters bsg)	Mean Lead Concentration by TTLC (mg/kg)	Mean Lead Concentration by STLC (mg/l)	Samples With Soluble Lead between 0 and <0.5 mg/l by DI-WET	Samples With Soluble Lead ≥0.5 mg/l by DI-WET	Samples With Soluble Lead ≥5 mg/l by TCLP
200s EB	Surface	≥350	≥5	570-202-0 570-203-0 570-204-0 570-206-0 570-207-0 570-209-0 570-210-0 570-211-0 570-212-0 570-213-0 570-217-0 570-218-0 570-221-0 570-223-0	NA	NA
200s EB	0.3, 0.6, 0.9, 1.5	<350	≥5	570-201-1.5 570-202-0.3 570-202-0.9 570-202-1.5 570-203-0.3 570-203-0.6 570-204-0.3 570-206-0.3 570-206-0.6 570-207-0.3 570-207-0.6 570-208-0.3 570-208-0.6 570-209-0.3 570-209-0.6 570-210-0.6 570-214-0.3 570-219-0.6	NA	NA

Table T11 – Data Evaluation for 95% UCL Evaluation As It Applies to Off-Site Disposal

Section/ Direction	Layer (meters bsg)	Mean Lead Concentration by TTLC (mg/kg)	Mean Lead Concentration by STLC (mg/l)	Samples With Soluble Lead between 0 and <0.5 mg/l by DI-WET	Samples With Soluble Lead ≥0.5 mg/l by DI-WET	Samples With Soluble Lead ≥5 mg/l by TCLP
200s EB	Surface, 0.3	≥350	≥5	570-202-0 570-202-0.3 570-203-0 570-203-0.3 570-204-0 570-204-0.3 570-206-0 570-206-0.3 570-207-0 570-207-0.3 570-208-0.3 570-209-0 570-209-0.3 570-210-0 570-211-0 570-212-0 570-213-0 570-214-0.3 570-217-0 570-218-0 570-221-0 570-223-0	NA	NA
200s EB	0.6, 0.9, 1.5	<350	≥5	570-201-1.5 570-202-0.9 570-202-1.5 570-203-0.6 570-206-0.6 570-207-0.6 570-208-0.6 570-209-0.6 570-210-0.6 570-219-0.6	NA	NA

Table T11 – Data Evaluation for 95% UCL Evaluation As It Applies to Off-Site Disposal

Section/ Direction	Layer (meters bsg)	Mean Lead Concentration by TTLC (mg/kg)	Mean Lead Concentration by STLC (mg/l)	Samples With Soluble Lead between 0 and <0.5 mg/l by DI-WET	Samples With Soluble Lead ≥0.5 mg/l by DI-WET	Samples With Soluble Lead ≥5 mg/l by TCLP
200s EB	Surface, 0.3, 0.6	<350	≥5	570-202-0 570-202-0.3 570-203-0 570-203-0.3 570-203-0.6 570-204-0 570-204-0.3 570-206-0 570-206-0.3 570-206-0.6 570-207-0 570-207-0.3 570-207-0.6 570-208-0.3 570-208-0.6 570-209-0 570-209-0.3 570-209-0.6 570-210-0 570-210-0.6 570-211-0 570-212-0 570-213-0 570-214-0.3 570-217-0 570-218-0 570-219-0.6 570-221-0 570-223-0	NA	NA
200s EB	0.9, 1.5	<350	≥5	570-201-1.5 570-202-0.9 570-202-1.5	NA	NA

Table T11 – Data Evaluation for 95% UCL Evaluation As It Applies to Off-Site Disposal

Section/ Direction	Layer (meters bsg)	Mean Lead Concentration by TTLC (mg/kg)	Mean Lead Concentration by STLC (mg/l)	Samples With Soluble Lead between 0 and <0.5 mg/l by DI-WET	Samples With Soluble Lead ≥0.5 mg/l by DI-WET	Samples With Soluble Lead ≥5 mg/l by TCLP
200s EB	Surface, 0.3, 0.6, 0.9	<350	≥5	570-202-0 570-202-0.3 570-202-0.9 570-203-0 570-203-0.3 570-203-0.6 570-204-0 570-204-0.3 570-206-0 570-206-0.3 570-206-0.6 570-207-0 570-207-0.3 570-207-0.6 570-208-0.3 570-208-0.6 570-209-0 570-209-0.3 570-209-0.6 570-210-0 570-210-0.6 570-211-0 570-212-0 570-213-0 570-214-0.3 570-217-0 570-218-0 570-219-0.6 570-221-0 570-223-0	NA	NA
200s EB	1.5	<350	≥5	570-201-1.5 570-202-1.5	NA	NA
400s EB	Layers Combined	<350	≥5	570-401-0 570-401-0.3	NA	NA
400s EB	Surface	NA	NA	570-401-0	NA	NA
400s EB	0.3, 0.6, 0.9, 1.5	<350	≥5	570-401-0.3	NA	NA
400s EB	Surface, 0.3	<350	≥5	570-401-0 570-401-0.3	NA	NA
400s EB	0.6, 0.9, 1.5	<350	≥5	NA	NA	NA

Table T11 – Data Evaluation for 95% UCL Evaluation As It Applies to Off-Site Disposal

Section/ Direction	Layer (meters bsg)	Mean Lead Concentration by TTLC (mg/kg)	Mean Lead Concentration by STLC (mg/l)	Samples With Soluble Lead between 0 and <0.5 mg/l by DI-WET	Samples With Soluble Lead ≥0.5 mg/l by DI-WET	Samples With Soluble Lead ≥5 mg/l by TCLP
400s EB	Surface, 0.3, 0.6	<350	≥5	570-401-0 570-401-0.3	NA	NA
400s EB	0.9, 1.5	<350	≥5	NA	NA	NA
400s EB	Surface, 0.3, 0.6, 0.9	<350	≥5	570-401-0 570-401-0.3	NA	NA
400s EB	1.5	NA	NA	NA	NA	NA
600s EB	Layers Combined	<350	≥5	570-603-0 570-603-0.3 570-603-0.6 570-613-0.6 570-614-0 570-614-0.6 570-615-0.6 570-616-0 570-616-0.3 570-616-0.6 570-617-0 570-617-0.3 570-618-0 570-619-0 570-620-0	NA	570-610-0.6
600s EB	Surface	≥350	≥5	570-603-0 570-614-0 570-616-0 570-617-0 570-618-0 570-619-0 570-620-0	NA	NA
600s EB	0.3, 0.6, 0.9, 1.5	<350	≥5	570-603-0.3 570-603-0.6 570-613-0.6 570-614-0.6 570-615-0.6 570-616-0.3 570-616-0.6 570-617-0.3	NA	570-610-0.6

Table T11 – Data Evaluation for 95% UCL Evaluation As It Applies to Off-Site Disposal

Section/ Direction	Layer (meters bsg)	Mean Lead Concentration by TTLC (mg/kg)	Mean Lead Concentration by STLC (mg/l)	Samples With Soluble Lead between 0 and <0.5 mg/l by DI-WET	Samples With Soluble Lead ≥0.5 mg/l by DI-WET	Samples With Soluble Lead ≥5 mg/l by TCLP
600s EB	Surface, 0.3	<350	≥5	570-603-0 570-603-0.3 570-614-0 570-616-0 570-616-0.3 570-617-0 570-617-0.3 570-618-0 570-619-0 570-620-0	NA	NA
600s EB	0.6, 0.9, 1.5	≥350	≥5	570-603-0.6 570-613-0.6 570-614-0.6 570-615-0.6 570-616-0.6	NA	570-610-0.6
600s EB	Surface, 0.3, 0.6	≥350	≥5	570-603-0 570-603-0.3 570-603-0.6 570-613-0.6 570-614-0 570-614-0.6 570-615-0.6 570-616-0 570-616-0.3 570-616-0.6 570-617-0 570-617-0.3 570-618-0 570-619-0 570-620-0	NA	570-610-0.6
600s EB	0.9, 1.5	<350	≥5	NA	NA	NA

Table T11 – Data Evaluation for 95% UCL Evaluation As It Applies to Off-Site Disposal

Section/ Direction	Layer (meters bsg)	Mean Lead Concentration by TTLC (mg/kg)	Mean Lead Concentration by STLC (mg/l)	Samples With Soluble Lead between 0 and <0.5 mg/l by DI-WET	Samples With Soluble Lead ≥0.5 mg/l by DI-WET	Samples With Soluble Lead ≥5 mg/l by TCLP
600s EB	Surface, 0.3, 0.6, 0.9	<350	≥5	570-603-0 570-603-0.3 570-603-0.6 570-613-0.6 570-614-0 570-614-0.6 570-615-0.6 570-616-0 570-616-0.3 570-616-0.6 570-617-0 570-617-0.3 570-618-0 570-619-0 570-620-0	NA	570-610-0.6
600s EB	1.5	<350	<5	NA	NA	NA
800s EB	Layers Combined	<350	≥5	570-804-0.6 570-805-0.3 570-805-0.6 570-805-0.9 570-807-0.9 570-809-0.6 570-810-0 570-811-0 570-811-0.3 570-811-0.6 570-811-1.5 570-813-0.6	570-803-0.3 570-808-0	NA
800s EB	Surface	≥350	≥5	570-810-0 570-811-0	570-808-0	NA

Table T11 – Data Evaluation for 95% UCL Evaluation As It Applies to Off-Site Disposal

Section/ Direction	Layer (meters bsg)	Mean Lead Concentration by TTLC (mg/kg)	Mean Lead Concentration by STLC (mg/l)	Samples With Soluble Lead between 0 and <0.5 mg/l by DI-WET	Samples With Soluble Lead ≥0.5 mg/l by DI-WET	Samples With Soluble Lead ≥5 mg/l by TCLP
800s EB	0.3, 0.6, 0.9, 1.5	<350	≥5	570-804-0.6 570-805-0.3 570-805-0.6 570-805-0.9 570-807-0.9 570-809-0.6 570-811-0.3 570-811-0.6 570-811-1.5 570-813-0.6	570-803-0.3	NA
800s EB	Surface, 0.3	≥350	≥5	570-805-0.3 570-810-0 570-811-0 570-811-0.3	570-803-0.3 570-808-0	NA
800s EB	0.6, 0.9, 1.5	<350	≥5	570-804-0.6 570-805-0.6 570-805-0.9 570-807-0.9 570-809-0.6 570-811-0.6 570-811-1.5 570-813-0.6	NA	NA
800s EB	Surface, 0.3, 0.6	≥350	≥5	570-804-0.6 570-805-0.3 570-805-0.6 570-809-0.6 570-810-0 570-811-0 570-811-0.3 570-811-0.6 570-813-0.6	570-803-0.3 570-808-0	NA
800s EB	0.9, 1.5	<350	≥5	570-805-0.9 570-807-0.9 570-811-1.5	NA	NA

Table T11 – Data Evaluation for 95% UCL Evaluation As It Applies to Off-Site Disposal

Section/ Direction	Layer (meters bsg)	Mean Lead Concentration by TTLC (mg/kg)	Mean Lead Concentration by STLC (mg/l)	Samples With Soluble Lead between 0 and <0.5 mg/l by DI-WET	Samples With Soluble Lead ≥0.5 mg/l by DI-WET	Samples With Soluble Lead ≥5 mg/l by TCLP
800s EB	Surface, 0.3, 0.6, 0.9	<350	≥5	570-804-0.6 570-805-0.3 570-805-0.6 570-805-0.9 570-807-0.9 570-809-0.6 570-810-0 570-811-0 570-811-0.3 570-811-0.6 570-813-0.6	570-803-0.3 570-808-0	NA
800s EB	1.5	<350	≥5	570-811-1.5	NA	NA

Notes:
UCL – upper confidence limit
meters bsg – meters below surface grade
TTLC – Total Threshold Limit Concentration
STLC – Soluble Threshold Limit Concentration
DI-WET – deionized water extraction
TCLP – Toxicity Characteristic Leaching Procedure
mg/kg – milligrams per kilogram
mg/l – milligrams per liter
WB – westbound
EB – eastbound
NA – not applicable

8. RECOMMENDATIONS

Based on the findings of this study, we present the following recommendations for each project location and depth layer as summarized in Tables T12 and 13:

Table T12 – Recommendations for 90% UCL Evaluation As It Applies to the Variance

Section/ Direction	Layer (meters bsg)	Representative Depth (meters bsg)	Soil Type	Recommended Handling
100s WB	Layers Combined	Surface to 1.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and protected from infiltration by a pavement structure which will be maintained by Caltrans.
100s WB	Surface	Surface to 0.15	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and protected from infiltration by a pavement structure which will be maintained by Caltrans.
100s WB	0.3, 0.6, 0.9, 1.5	0.15 to 1.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and protected from infiltration by a pavement structure which will be maintained by Caltrans.
100s WB	Surface, 0.3	Surface to 0.45	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and protected from infiltration by a pavement structure which will be maintained by Caltrans.
100s WB	0.6, 0.9, 1.5	0.45 to 1.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and protected from infiltration by a pavement structure which will be maintained by Caltrans.
100s WB	Surface, 0.3, 0.6	Surface to 0.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and protected from infiltration by a pavement structure which will be maintained by Caltrans.
100s WB	0.9, 1.5	0.75 to 1.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and protected from infiltration by a pavement structure which will be maintained by Caltrans.
100s WB	Surface, 0.3, 0.6, 0.9	Surface to 1.20	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and protected from infiltration by a pavement structure which will be maintained by Caltrans.

Table T12 – Recommendations for 90% UCL Evaluation As It Applies to the Variance

Section/ Direction	Layer (meters bsg)	Representative Depth (meters bsg)	Soil Type	Recommended Handling
100s WB	1.5	1.20 to 1.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
300s WB	Layers Combined	Surface to 1.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
300s WB	Surface	Surface to 0.15	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
300s WB	0.3, 0.6, 0.9, 1.5	0.15 to 1.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
300s WB	Surface, 0.3	Surface to 0.45	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
300s WB	0.6, 0.9, 1.5	0.45 to 1.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
300s WB	Surface, 0.3, 0.6	Surface to 0.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
300s WB	0.9, 1.5	0.75 to 1.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
300s WB	Surface, 0.3, 0.6, 0.9	Surface to 1.20	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
300s WB	1.5	1.20 to 1.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.

Table T12 – Recommendations for 90% UCL Evaluation As It Applies to the Variance

Section/ Direction	Layer (meters bsg)	Representative Depth (meters bsg)	Soil Type	Recommended Handling
500s WB	Layers Combined	Surface to 1.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and protected from infiltration by a pavement structure which will be maintained by Caltrans.
500s WB	Surface	Surface to 0.15	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
500s WB	0.3, 0.6, 0.9, 1.5	0.15 to 1.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and protected from infiltration by a pavement structure which will be maintained by Caltrans.
500s WB	Surface, 0.3	Surface to 0.45	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
500s WB	0.6, 0.9, 1.5	0.45 to 1.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and protected from infiltration by a pavement structure which will be maintained by Caltrans.
500s WB	Surface, 0.3, 0.6	Surface to 0.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and protected from infiltration by a pavement structure which will be maintained by Caltrans.
500s WB	0.9, 1.5	0.75 to 1.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
500s WB	Surface, 0.3, 0.6, 0.9	Surface to 1.20	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and protected from infiltration by a pavement structure which will be maintained by Caltrans.
500s WB	1.5	1.20 to 1.75	X	Non-hazardous, no restrictions.
700s WB	Layers Combined	Surface to 1.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.

Table T12 – Recommendations for 90% UCL Evaluation As It Applies to the Variance

Section/ Direction	Layer (meters bsg)	Representative Depth (meters bsg)	Soil Type	Recommended Handling
700s WB	Surface	Surface to 0.15	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
700s WB	0.3, 0.6, 0.9, 1.5	0.15 to 1.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
700s WB	Surface, 0.3	Surface to 0.45	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
700s WB	0.6, 0.9, 1.5	0.45 to 1.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
700s WB	Surface, 0.3, 0.6	Surface to 0.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
700s WB	0.9, 1.5	0.75 to 1.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
700s WB	Surface, 0.3, 0.6, 0.9	Surface to 1.20	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
700s WB	1.5	1.20 to 1.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
200s EB	Layers Combined	Surface to 1.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
200s EB	Surface	Surface to 0.15	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.

Table T12 – Recommendations for 90% UCL Evaluation As It Applies to the Variance

Section/ Direction	Layer (meters bsg)	Representative Depth (meters bsg)	Soil Type	Recommended Handling
200s EB	0.3, 0.6, 0.9, 1.5	0.15 to 1.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
200s EB	Surface, 0.3	Surface to 0.45	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
200s EB	0.6, 0.9, 1.5	0.45 to 1.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
200s EB	Surface, 0.3, 0.6	Surface to 0.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
200s EB	0.9, 1.5	0.75 to 1.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
200s EB	Surface, 0.3, 0.6, 0.9	Surface to 1.20	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
200s EB	1.5	1.20 to 1.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
400s EB	Layers Combined	Surface to 1.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
400s EB	Surface	Surface to 0.15	X	Insufficient data to perform statistics. Available data suggests layer is: Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil. Additional in-ground and/or stockpile sampling should be performed at the time of construction.

Table T12 – Recommendations for 90% UCL Evaluation As It Applies to the Variance

Section/ Direction	Layer (meters bsg)	Representative Depth (meters bsg)	Soil Type	Recommended Handling
400s EB	0.3, 0.6, 0.9, 1.5	0.15 to 1.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
400s EB	Surface, 0.3	Surface to 0.45	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
400s EB	0.6, 0.9, 1.5	0.45 to 1.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
400s EB	Surface, 0.3, 0.6	Surface to 0.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
400s EB	0.9, 1.5	0.75 to 1.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
400s EB	Surface, 0.3, 0.6, 0.9	Surface to 1.20	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
400s EB	1.5	1.20 to 1.75	X	Insufficient data to perform statistics. Available data suggests layer is: Non-hazardous, no restrictions. Additional in-ground and/or stockpile sampling should be performed at the time of construction.
600s EB	Layers Combined	Surface to 1.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
600s EB	Surface	Surface to 0.15	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
600s EB	0.3, 0.6, 0.9, 1.5	0.15 to 1.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.

Table T12 – Recommendations for 90% UCL Evaluation As It Applies to the Variance

Section/ Direction	Layer (meters bsg)	Representative Depth (meters bsg)	Soil Type	Recommended Handling
600s EB	Surface, 0.3	Surface to 0.45	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
600s EB	0.6, 0.9, 1.5	0.45 to 1.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
600s EB	Surface, 0.3, 0.6	Surface to 0.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
600s EB	0.9, 1.5	0.75 to 1.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
600s EB	Surface, 0.3, 0.6, 0.9	Surface to 1.20	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
600s EB	1.5	1.20 to 1.75	X	Non-hazardous, no restrictions.
800s EB	Layers Combined	Surface to 1.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and protected from infiltration by a pavement structure which will be maintained by Caltrans.
800s EB	Surface	Surface to 0.15	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and protected from infiltration by a pavement structure which will be maintained by Caltrans.
800s EB	0.3, 0.6, 0.9, 1.5	0.15 to 1.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and protected from infiltration by a pavement structure which will be maintained by Caltrans.
800s EB	Surface, 0.3	Surface to 0.45	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and protected from infiltration by a pavement structure which will be maintained by Caltrans.

Table T12 – Recommendations for 90% UCL Evaluation As It Applies to the Variance

Section/ Direction	Layer (meters bsg)	Representative Depth (meters bsg)	Soil Type	Recommended Handling
800s EB	0.6, 0.9, 1.5	0.45 to 1.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
800s EB	Surface, 0.3, 0.6	Surface to 0.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and protected from infiltration by a pavement structure which will be maintained by Caltrans.
800s EB	0.9, 1.5	0.75 to 1.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.
800s EB	Surface, 0.3, 0.6, 0.9	Surface to 1.20	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and protected from infiltration by a pavement structure which will be maintained by Caltrans.
800s EB	1.5	1.20 to 1.75	Y	Hazardous, variance applies. Use material on job-site. Place at minimum of 5 feet above maximum water table elevation and covered with at least 1 foot non-hazardous soil.

Notes:
UCL – upper confidence limit
meters bsg – meters below surface grade
DTSC – United States Environmental Protection Agency, Department of Toxic Substances Control
CCR – California Code of Regulations
RCRA – Resource, Conservation and Recovery Act
WB – westbound
EB – eastbound
NA – not applicable

Table T13 – Recommendations for 95% UCL Evaluation As It Applies to Off-Site Disposal

Area	Layer (meters bsg)	Representative Depth (meters bsg)	Soil Type	Recommended Handling
100s WB	Layers Combined	Surface to 1.75	**Z-3***	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply. **RCRA.***
100s WB	Surface	Surface to 0.15	**Z-3***	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply. **RCRA.***
100s WB	0.3, 0.6, 0.9, 1.5	0.15 to 1.75	**Z-3***	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply. **RCRA.***
100s WB	Surface, 0.3	Surface to 0.45	**Z-3***	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply. **RCRA.***
100s WB	0.6, 0.9, 1.5	0.45 to 1.75	**Z-3***	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply. **RCRA.***
100s WB	Surface, 0.3, 0.6	Surface to 0.75	**Z-3***	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply. **RCRA.***
100s WB	0.9, 1.5	0.75 to 1.75	**Z-3***	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply. **RCRA.***
100s WB	Surface, 0.3, 0.6, 0.9	Surface to 1.20	**Z-3***	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply. **RCRA.***
100s WB	1.5	1.20 to 1.75	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.
300s WB	Layers Combined	Surface to 1.75	**Z-3***	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply. **RCRA.***
300s WB	Surface	Surface to 0.15	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.
300s WB	0.3, 0.6, 0.9, 1.5	0.15 to 1.75	**Z-3***	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply. **RCRA.***
300s WB	Surface, 0.3	Surface to 0.45	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.
300s WB	0.6, 0.9, 1.5	0.45 to 1.75	**Z-3***	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply. **RCRA.***
300s WB	Surface, 0.3, 0.6	Surface to 0.75	**Z-3***	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply. **RCRA.***
300s WB	0.9, 1.5	0.75 to 1.75	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.
300s WB	Surface, 0.3, 0.6, 0.9	Surface to 1.20	**Z-3***	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply. **RCRA.***
300s WB	1.5	1.20 to 1.75	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.

Table T13 – Recommendations for 95% UCL Evaluation As It Applies to Off-Site Disposal

Area	Layer (meters bsg)	Representative Depth (meters bsg)	Soil Type	Recommended Handling
500s WB	Layers Combined	Surface to 1.75	**Z-3***	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply. **RCRA.***
500s WB	Surface	Surface to 0.15	**Z-3***	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply. **RCRA.***
500s WB	0.3, 0.6, 0.9, 1.5	0.15 to 1.75	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.
500s WB	Surface, 0.3	Surface to 0.45	**Z-3***	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply. **RCRA.***
500s WB	0.6, 0.9, 1.5	0.45 to 1.75	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.
500s WB	Surface, 0.3, 0.6	Surface to 0.75	**Z-3***	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply. **RCRA.***
500s WB	0.9, 1.5	0.75 to 1.75	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.
500s WB	Surface, 0.3, 0.6, 0.9	Surface to 1.20	**Z-3***	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply. **RCRA.***
500s WB	1.5	1.20 to 1.75	X	Non-hazardous, no restrictions.
700s WB	Layers Combined	Surface to 1.75	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.
700s WB	Surface	Surface to 0.15	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.
700s WB	0.3, 0.6, 0.9, 1.5	0.15 to 1.75	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.
700s WB	Surface, 0.3	Surface to 0.45	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.
700s WB	0.6, 0.9, 1.5	0.45 to 1.75	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.
700s WB	Surface, 0.3, 0.6	Surface to 0.75	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.
700s WB	0.9, 1.5	0.75 to 1.75	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.
700s WB	Surface, 0.3, 0.6, 0.9	Surface to 1.20	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.
700s WB	1.5	1.20 to 1.75	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.

Table T13 – Recommendations for 95% UCL Evaluation As It Applies to Off-Site Disposal

Area	Layer (meters bsg)	Representative Depth (meters bsg)	Soil Type	Recommended Handling
200s EB	Layers Combined	Surface to 1.75	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.
200s EB	Surface	Surface to 0.15	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.
200s EB	0.3, 0.6, 0.9, 1.5	0.15 to 1.75	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.
200s EB	Surface, 0.3	Surface to 0.45	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply. .
200s EB	0.6, 0.9, 1.5	0.45 to 1.75	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.
200s EB	Surface, 0.3, 0.6	Surface to 0.75	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.
200s EB	0.9, 1.5	0.75 to 1.75	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.
200s EB	Surface, 0.3, 0.6, 0.9	Surface to 1.20	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.
200s EB	1.5	1.20 to 1.75	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.
400s EB	Layers Combined	Surface to 1.75	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.
400s EB	Surface	Surface to 0.15	Z-2	Insufficient data to perform statistics. Available data suggests layer is: Hazardous. Class 1 Disposal site, all other Title 22 CCR requirements apply. Additional in-ground and/or stockpile sampling should be performed at the time of construction.
400s EB	0.3, 0.6, 0.9, 1.5	0.15 to 1.75	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.
400s EB	Surface, 0.3	Surface to 0.45	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.
400s EB	0.6, 0.9, 1.5	0.45 to 1.75	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.
400s EB	Surface, 0.3, 0.6	Surface to 0.75	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.
400s EB	0.9, 1.5	0.75 to 1.75	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.
400s EB	Surface, 0.3, 0.6, 0.9	Surface to 1.20	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.

Table T13 – Recommendations for 95% UCL Evaluation As It Applies to Off-Site Disposal

Area	Layer (meters bsg)	Representative Depth (meters bsg)	Soil Type	Recommended Handling
400s EB	1.5	1.20 to 1.75	X	Insufficient data to perform statistics. Available data suggests layer is: Non-hazardous, no restrictions. Additional in-ground and/or stockpile sampling should be performed at the time of construction.
600s EB	Layers Combined	Surface to 1.75	**Z-3***	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply. **RCRA.***
600s EB	Surface	Surface to 0.15	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.
600s EB	0.3, 0.6, 0.9, 1.5	0.15 to 1.75	**Z-3***	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply. **RCRA.***
600s EB	Surface, 0.3	Surface to 0.45	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.
600s EB	0.6, 0.9, 1.5	0.45 to 1.75	**Z-3***	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply. **RCRA.***
600s EB	Surface, 0.3, 0.6	Surface to 0.75	**Z-3***	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply. **RCRA.***
600s EB	0.9, 1.5	0.75 to 1.20	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.
600s EB	Surface, 0.3, 0.6, 0.9	Surface to 1.20	**Z-3***	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply. **RCRA.***
600s EB	1.5	1.20 to 1.75	X	Non-hazardous, no restrictions.
800s EB	Layers Combined	Surface to 1.75	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.
800s EB	Surface	Surface to 0.15	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.
800s EB	0.3, 0.6, 0.9, 1.5	0.15 to 1.75	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.
800s EB	Surface, 0.3	Surface to 0.45	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.
800s EB	0.6, 0.9, 1.5	0.45 to 1.75	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.
800s EB	Surface, 0.3, 0.6	Surface to 0.75	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.
800s EB	0.9, 1.5	0.75 to 1.75	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.
800s EB	Surface, 0.3, 0.6, 0.9	Surface to 1.20	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.

Table T13 – Recommendations for 95% UCL Evaluation As It Applies to Off-Site Disposal

Area	Layer (meters bsg)	Representative Depth (meters bsg)	Soil Type	Recommended Handling
800s EB	1.5	1.20 to 1.75	Z-2	Hazardous. Class 1 Disposal Site, all other Title 22 CCR requirements apply.

Notes:
UCL – upper confidence limit
meters bsg – meters below surface grade
DTSC – United States Environmental Protection Agency, Department of Toxic Substances Control
CCR – California Code of Regulations
RCRA – Resource, Conservation and Recovery Act
WB – westbound
EB – eastbound
NA – not applicable
*The majority of soil in sections classified as Z-3 may fall under the Z-2 criteria. Soil type classification and recommended handling as RCRA material is based on the failure of one or more Toxicity Characteristic Leaching Procedure (TCLP) analyses at this depth across entire sections. The actual locations of the samples failing the TCLP analyses (which may represent isolated zones) are listed in Tables T10 and T11. The volume of soil requiring handling as a RCRA material may be reduced if additional in-ground and/or stockpile sampling is performed near these sample locations during construction activities.

Concentrations of selenium in several samples collected from the site exceeded 10 times the STLC for selenium. During construction activities, when soil from these areas is stockpiled for disposal, analysis for profiling purposes should include Title 22 metals (TTLC), and STLC analyses if indicated by the results of the TTLC analyses.

9. HEALTH EFFECTS OF LEAD

Concentrations of lead in soil at the site represent a potential threat to the health of site workers performing earthwork activities.

Lead in its element form is a heavy, ductile, soft gray metal. The permissible exposure limit (PEL) for lead is 0.05 milligrams per meters cubed (mg/m^3) in air based on an eight-hour time-weighted average (TWA); Immediately Dangerous to Life and Health (IDLH) exposure limit is 100 mg/m^3 has been established by the National Institute of Occupational Safety and Health (NIOSH). Exposure may produce several symptoms including weakness, eye irritation, facial

pallor, pale eyes, lassitude, insomnia, anemia, tremors, malnutrition, constipation, paralysis of the wrists and ankles, abdominal pain, colic, nephropathy, encephalopathy, gingival lead line, hypertension, anorexia, and weight loss. Target organs are the central nervous system, kidneys, eyes, blood, gingival tissue, and the gastrointestinal tract.

Because of the potential hazard from exposure to lead-contaminated soil, a lead Health and Safety Plan should be prepared by a Certified Industrial Hygienist (CIH). In addition, all site workers (earthwork) should have completed a training program meeting the requirements of 29 CFR 1910.120 and 8 CCR 1532.1 The plan developed by the CIH should include a hazard analysis, describe dust control measures, air monitoring, signage, work practices, emergency response plans, personal protective equipment, decontamination, and documentation.

TABLE 1 - SOIL SAMPLE RESULTS - LEAD AND PH

Sample ID	TTLC (mg/kg)	STLC (mg/l)	DI-WET (mg/l)	TCLP (mg/l)	pH
Section 100s WB (Borings 570-101 to 570-123)					
570-101-0	2,900			8.4	
570-101-0.3	45				
570-101-0.6	1,700			1.6	6.5
570-101-0.9	140	0.22			
570-101-1.5	28				
570-102-0	510	65	1.6	4.5	
570-102-0.3	22				
570-102-0.6	1,400			8.5	
570-102-0.9	270	17	0.95	5.2	
570-102-1.5	220	9.1	0.29		
570-103-0	250	44	0.75	1.3	
570-103-0.3	6.1				
570-103-0.6	470	37	<0.2	1.8	6.5
570-103-0.9	9.2				
570-103-1.5	1,100			2.3	
570-104-0	<5				
570-104-0.3	200	4.9			
570-104-0.6	160	2.1			
570-104-0.9	<5				
570-104-1.5	210	4			
570-105-0	66	1.9			9.1
570-105-0.3	6.6				
570-105-0.6	110	5.6	<0.2		
570-105-0.9	refusal				
570-105-1.5	refusal				
570-106-0	87	7.2	0.49		
570-106-0.3	6.3				
570-106-0.6	<5				
570-106-0.9	<5				
570-106-1.5	<5				
570-107-0	6.2				7.8
570-107-0.3	6.4				
570-107-0.6	410	15	0.34	2.3	
570-107-0.9	<5				
570-107-1.5	<5				
570-108-0	120	27	0.22	0.64	7.4
570-108-0.3	9.7				
570-108-0.6	8.7				
570-108-0.9	8.9				
570-108-1.5	250	6.7	<0.2		
570-109-0	23				
570-109-0.3	17				

TABLE 1 - SOIL SAMPLE RESULTS - LEAD AND PH

Sample ID	TTLC (mg/kg)	STLC (mg/l)	DI-WET (mg/l)	TCLP (mg/l)	pH
570-109-0.6	350	14	0.54	0.29	
570-109-0.9	11				
570-109-1.5	10				
570-110-0	160	24	<0.2	0.69	7.6
570-110-0.3	93	8.9	<0.2		
570-110-0.6	310	37	<0.2	19	
570-110-0.9	7.9				
570-110-1.5	refusal				
570-111-0	66	15	<0.2	0.68	
570-111-0.3	180	8.8	<0.2		
570-111-0.6	8				
570-111-0.9	refusal				
570-111-1.5	refusal				
570-112-0	63	2.9			
570-112-0.3	92	6.7	<0.2		
570-112-0.6	40				
570-112-0.9	22				
570-112-1.5	570	35	<0.2	0.57	
570-113-0	12				
570-113-0.3	1,000			<0.2	7.3
570-113-0.6	36				
570-113-0.9	refusal				
570-113-1.5	refusal				
570-114-0	410	110	1.3	0.52	
570-114-0.3	19				
570-114-0.6	1,100			1.5	
570-114-0.9	9.5				
570-114-1.5	10				
570-115-0	1,200			0.85	
570-115-0.3	20				
570-115-0.6	890	13	0.38		
570-115-0.9	refusal				
570-115-1.5	refusal				
570-116-0	840	73	1.1	1.6	6.2
570-116-0.3	refusal				
570-116-0.6	refusal				
570-116-0.9	refusal				
570-116-1.5	refusal				
570-117-0	810	58	0.79	2.5	
570-117-0.3	400	39	1	1.4	
570-117-0.6	330	24	0.65	0.72	
570-117-0.9	refusal				
570-117-1.5	refusal				

TABLE 1 - SOIL SAMPLE RESULTS - LEAD AND PH

Sample ID	TTLC (mg/kg)	STLC (mg/l)	DI-WET (mg/l)	TCLP (mg/l)	pH
570-118-0	99	6	<0.2		
570-118-0.3	370	26	1.1	1.5	
570-118-0.6	240	14	0.38		
570-118-0.9	43				
570-118-1.5	refusal				
570-119-0	240	28	0.26	0.92	
570-119-0.3	1,300			3	
570-119-0.6	56	2.4			
570-119-0.9	refusal				
570-119-1.5	refusal				
570-120-0	44				7
570-120-0.3	14				
570-120-0.6	12				
570-120-0.9	120	18	<0.2	<0.2	
570-120-1.5	69	1.3			
570-121-0	12				
570-121-0.3	120	6.9	<0.2		
570-121-0.6	5.7				
570-121-0.9	<5				
570-121-1.5	<5				
570-122-0	7.7				8.3
570-122-0.3	5.3				
570-122-0.6	34				
570-122-0.9	220	20	<0.2	<0.2	
570-122-1.5	5.3				
570-123-0	140	9.8	<0.2		
570-123-0.3	20				
570-123-0.6	57	3.7			
570-123-0.9	47				8.2
570-123-1.5	refusal				
Section 300s WB (Borings 570-301 to 570-317)					
570-301-0	270	53	0.26	1.3	
570-301-0.3	59	5.3	<0.2		
570-301-0.6	30				
570-301-0.9	refusal				
570-301-1.5	refusal				
570-302-0	5.7				
570-302-0.3	48				
570-302-0.6	7.9				
570-302-0.9	34				
570-302-1.5	<5				
570-303-0	66	58	<0.2	<0.2	
570-303-0.3	120	14	<0.2		

TABLE 1 - SOIL SAMPLE RESULTS - LEAD AND PH

Sample ID	TTLC (mg/kg)	STLC (mg/l)	DI-WET (mg/l)	TCLP (mg/l)	pH
570-303-0.6	100	1.1			
570-303-0.9	25				
570-303-1.5	3				
570-304-0	930	25	<0.2	<0.2	7.3
570-304-0.3	160	17	<0.2	<0.2	
570-304-0.6	130	1.4			
570-304-0.9	<5				
570-304-1.5	160	<0.2			
570-305-0	590	79	<0.2	1.2	
570-305-0.3	9.3				
570-305-0.6	<5				
570-305-0.9	<5				
570-305-1.5	5.5				
570-306-0	6.2				
570-306-0.3	19				
570-306-0.6	49				6.7
570-306-0.9	9.3				
570-306-1.5	8.1				
570-307-0	8.7				
570-307-0.3	130	<0.2			8
570-307-0.6	24				
570-307-0.9	12				
570-307-1.5	7.6				
570-308-0	220	16	<0.2	0.25	
570-308-0.3	11				
570-308-0.6	7.3				
570-308-0.9	12				
570-308-1.5	8.6				
570-309-0	85	3.2			
570-309-0.3	96	6.1	<0.2		
570-309-0.6	refusal				
570-309-0.9	refusal				
570-309-1.5	refusal				
570-311-0	46				
570-311-0.3	27				
570-311-0.6	1,500			5.8	7.7
570-311-0.9	19				
570-311-1.5	670	58	0.41	2.5	
570-312-0	45				
570-312-0.3	490	31	<0.2	0.23	
570-312-0.6	1,900			0.72	
570-312-0.9	7.5				
570-312-1.5	6				

TABLE 1 - SOIL SAMPLE RESULTS - LEAD AND PH

Sample ID	TTLC (mg/kg)	STLC (mg/l)	DI-WET (mg/l)	TCLP (mg/l)	pH
570-313-0	17				
570-313-0.3	10				8.5
570-313-0.6	160	19	<0.2	1	
570-313-0.9	9.8				
570-313-1.5	24				
570-314-0	120	8.9	<0.2		
570-314-0.3	13				
570-314-0.6	920	76	<0.2	3.9	
570-314-0.9	9.5				
570-314-1.5	49				
570-315-0	48				
570-315-0.3	9.3				8.3
570-315-0.6	50	4.2			
570-315-0.9	5.6				
570-315-1.5	6.7				
570-316-0	22				
570-316-0.3	17				
570-316-0.6	39				
570-316-0.9	16				
570-316-1.5	<5				
570-317-0	62	5.5	<0.2		8.6
570-317-0.3	36				
570-317-0.6	190	4.7			
570-317-0.9	5.4				
570-317-1.5	5.2				
Section 500s WB (Borings 570-501 to 570-519)					
570-501-0	200	9.6	<0.2		7.6
570-501-0.3	20				
570-501-0.6	refusal				
570-501-0.9	refusal				
570-501-1.5	refusal				
570-502-0	65	2.4			
570-502-0.3	25				
570-502-0.6	refusal				
570-502-0.9	refusal				
570-502-1.5	refusal				
570-503-0	72	1.2			
570-503-0.3	21				
570-503-0.6	300	31	<0.2	0.23	
570-503-0.9	6.2				
570-503-1.5	6				
570-504-0	[2]1,100 ([1]75)			1.9	7.8
570-504-0.3	6				

TABLE 1 - SOIL SAMPLE RESULTS - LEAD AND PH

Sample ID	TTLC (mg/kg)	STLC (mg/l)	DI-WET (mg/l)	TCLP (mg/l)	pH
570-504-0.6	1,100	100	0.73	3.7	
570-504-0.9	540	<0.2			
570-504-1.5	32				
570-505-0	9.8				
570-505-0.3	6.7				
570-505-0.6	560	75	0.37	2.1	
570-505-0.9	140	1.6			
570-505-1.5	33				
570-506-0	210	18	0.39	1.1	8.6
570-506-0.3	13				
570-506-0.6	33				
570-506-0.9	360	<0.2			
570-506-1.5	20				
570-507-0	150	8.3	<0.2		
570-507-0.3	14				
570-507-0.6	160	9.4	<0.2		
570-507-0.9	10				
570-507-1.5	5.4				7.9
570-508-0	1,700			<0.2	
570-508-0.3	350	0.69			
570-508-0.6	560	60	0.23	2.4	
570-508-0.9	16				
570-508-1.5	28				
570-509-0	5.8				7.3
570-509-0.3	8.6				
570-509-0.6	7.2				
570-509-0.9	330	29	<0.2	0.99	
570-509-1.5	<5				
570-510-0	360	25	<0.2	0.23	
570-510-0.3	15				
570-510-0.6	180	31	<0.2	1	
570-510-0.9	18				
570-510-1.5	9.5				
570-511-0	32				
570-511-0.3	28				
570-511-0.6	9.8				
570-511-0.9	48				
570-511-1.5	47				8
570-512-0	130	8.8	<0.2		
570-512-0.3	11				
570-512-0.6	360	3.7			
570-512-0.9	11				
570-512-1.5	<5				

TABLE 1 - SOIL SAMPLE RESULTS - LEAD AND PH

Sample ID	TTLC (mg/kg)	STLC (mg/l)	DI-WET (mg/l)	TCLP (mg/l)	pH
570-513-0	240	32	<0.2	0.84	
570-513-0.3	[2]380 ([1]240)	12	<0.2		
570-513-0.6	510	22	<0.2	0.22	
570-513-0.9	6.7				
570-513-1.5	6.5				7
570-514-0	43				
570-514-0.3	9.9				
570-514-0.6	15				
570-514-0.9	14				
570-514-1.5	15				
570-515-0	140	5.3	<0.2		
570-515-0.3	61	120	<0.2	<0.2	
570-515-0.6	39				
570-515-0.9	8.4				
570-515-1.5	7.1				7.6
570-516-0	33				7
570-516-0.3	30				
570-516-0.6	68	5.6	<0.2		
570-516-0.9	9.3				
570-516-1.5	33				
570-517-0	3,200			6.6	
570-517-0.3	1,500			0.89	
570-517-0.6	270	3			
570-517-0.9	13				
570-517-1.5	11				
570-518-0	240	15	<0.2	<0.2	8.2
570-518-0.3	6.5				
570-518-0.6	24				
570-518-0.9	12				
570-518-1.5	19				
570-519-0	300	1.6			
570-519-0.3	33				
570-519-0.6	16				
570-519-0.9	5.2				
570-519-1.5	5.4				
Section 700s WB (Borings 570-701 to 570-713)					
570-701-0	120	6.8	<0.2		
570-701-0.3	21				
570-701-0.6	300	16	<0.2	0.23	
570-701-0.9	5.5				
570-701-1.5	<5				
570-702-0	180	0.30			
570-702-0.3	13				

TABLE 1 - SOIL SAMPLE RESULTS - LEAD AND PH

Sample ID	TTLC (mg/kg)	STLC (mg/l)	DI-WET (mg/l)	TCLP (mg/l)	pH
570-702-0.6	15				
570-702-0.9	5.2				
570-702-1.5	<5				
570-703-0	800	55	<0.2	0.92	
570-703-0.3	370	30	<0.2	3.5	7.5
570-703-0.6	refusal				
570-703-0.9	refusal				
570-703-1.5	refusal				
570-704-0	540	63	0.33	0.51	
570-704-0.3	370	22	0.25	0.35	
570-704-0.6	refusal				
570-704-0.9	refusal				
570-704-1.5	refusal				
570-706-0	1,100			1.6	
570-706-0.3	670	60	0.42	1.2	7.2
570-706-0.6	7				
570-706-0.9	5.1				
570-706-1.5	5.1				
570-707-0	250	15	<0.2	<0.2	7.4
570-707-0.3	87	5.2	<0.2		
570-707-0.6	730	25	<0.2	0.65	
570-707-0.9	27				
570-707-1.5	refusal				
570-708-0	68	3.7			
570-708-0.3	9.9				
570-708-0.6	600	27	<0.2	0.5	
570-708-0.9	15				
570-708-1.5	69	0.33			
570-709-0	1,100			<0.2	8.5
570-709-0.3	16				
570-709-0.6	110	57	<0.2	0.51	
570-709-0.9	17				
570-709-1.5	730	<0.2			
570-710-0	37				
570-710-0.3	19				
570-710-0.6	430	26	<0.2	0.77	
570-710-0.9	5.6				
570-710-1.5	11				
570-711-0	30				7.7
570-711-0.3	19				
570-711-0.6	120	46	<0.2	1.4	
570-711-0.9	5.7				
570-711-1.5	<5				

TABLE 1 - SOIL SAMPLE RESULTS - LEAD AND PH

Sample ID	TTLC (mg/kg)	STLC (mg/l)	DI-WET (mg/l)	TCLP (mg/l)	pH
570-712-0	250	11	<0.2		
570-712-0.3	14				
570-712-0.6	1,000			0.88	
570-712-0.9	18				
570-712-1.5	7.5				
570-713-0	560	17	<0.2	0.28	8.2
570-713-0.3	89	33	<0.2	0.68	
570-713-0.6	400	28	<0.2	1.3	
570-713-0.9	20				
570-713-1.5	7.2				
Section 200s EB (Borings 570-201 to 570-227)					
570-201-0	1,400			3.5	7.4
570-201-0.3	57	5.3	<0.2		
570-201-0.6	6				
570-201-0.9	50	2.5			
570-201-1.5	170	14	<0.2		
570-202-0	460	31	<0.2	0.74	
570-202-0.3	120	6.4	<0.2		
570-202-0.6	65	3.6			
570-202-0.9	180	11	<0.2		
570-202-1.5	250	14	<0.2		
570-203-0	130	6.8	<0.2		8.1
570-203-0.3	88	7.4	<0.2		
570-203-0.6	130	5.1	<0.2		
570-203-0.9	refusal				
570-203-1.5	refusal				
570-204-0	150	8.5	<0.2		
570-204-0.3	94	7.3	<0.2		
570-204-0.6	refusal				
570-204-0.9	refusal				
570-204-1.5	refusal				
570-205-0	64	2.6			
570-205-0.3	16				
570-205-0.6	15				
570-205-0.9	32				
570-205-1.5	refusal				
570-206-0	650	54	0.22	0.54	
570-206-0.3	700	45	<0.2	0.64	7
570-206-0.6	200	11	<0.2		
570-206-0.9	30				
570-206-1.5	12				
570-207-0	320	31	0.22	0.86	
570-207-0.3	59	6.2	<0.2		

TABLE 1 - SOIL SAMPLE RESULTS - LEAD AND PH

Sample ID	TTLC (mg/kg)	STLC (mg/l)	DI-WET (mg/l)	TCLP (mg/l)	pH
570-207-0.6	250	19	0.27	0.78	
570-207-0.9	refusal				
570-207-1.5	refusal				
570-208-0	1,000			1.3	
570-208-0.3	780	58	<0.2	1.9	
570-208-0.6	770	74	<0.2	0.72	
570-208-0.9	refusal				
570-208-1.5	refusal				
570-209-0	470	40	<0.2	0.55	5.8
570-209-0.3	580	31	<0.2	0.2	
570-209-0.6	130	7.5	<0.2		
570-209-0.9	98	7.8	<0.2		
570-209-1.5	refusal				
570-210-0	640	40	<0.2	0.36	
570-210-0.3	110	3.2			
570-210-0.6	400	29	<0.2	0.57	
570-210-1.5	refusal				
570-210-1.5	refusal				
570-211-0	470	29	<0.2	0.42	
570-211-0.3	60	2.2			
570-211-0.6	35				
570-211-0.9	refusal				
570-211-1.5	refusal				
570-212-0	150	14	<0.2		7.5
570-212-0.3	10				
570-212-0.6	16				
570-212-0.9	refusal				
570-212-1.5	refusal				
570-213-0	85	7.4	<0.2		
570-213-0.3	refusal				
570-213-0.6	refusal				
570-213-0.9	refusal				
570-213-1.5	refusal				
570-214-0	1,300			1.3	
570-214-0.3	240	21	<0.2	0.38	
570-214-0.6	refusal				
570-214-0.9	refusal				
570-214-1.5	refusal				
570-215-0	78	3.8			
570-215-0.3	refusal				
570-215-0.6	refusal				
570-215-0.9	refusal				
570-215-1.5	refusal				

TABLE 1 - SOIL SAMPLE RESULTS - LEAD AND PH

Sample ID	TTLC (mg/kg)	STLC (mg/l)	DI-WET (mg/l)	TCLP (mg/l)	pH
570-216-0	230	17	<0.2	0.64	
570-216-0.3	37				
570-216-0.6	refusal				
570-216-0.9	refusal				
570-216-1.5	refusal				
570-217-0	140	5.8	<0.2		
570-217-0.3	refusal				
570-217-0.6	refusal				
570-217-0.9	refusal				
570-217-1.5	refusal				
570-218-0	90	6.5	<0.2		
570-218-0.3	180	3			
570-218-0.6	9.8				
570-218-0.9	<5				
570-218-1.5	5.7				8.1
570-219-0	100	4.5			
570-219-0.3	72	4.8			
570-219-0.6	140	7.8	<0.2		
570-219-0.9	refusal				
570-219-1.5	refusal				
570-220-0	43				
570-220-0.3	17				
570-220-0.6	6.7				
570-220-0.9	<5				
570-220-1.5	7.2				
570-221-0	240	22	<0.2	0.27	
570-221-0.3	refusal				
570-221-0.6	refusal				
570-221-0.9	refusal				
570-221-1.5	refusal				
570-222-0	25				
570-222-0.3	8.4				
570-222-0.6	27				
570-222-0.9	30				
570-222-1.5	32				7.9
570-223-0	330	24	<0.2	0.23	
570-223-0.3	96	4.4			
570-223-0.6	refusal				
570-223-0.9	refusal				
570-223-1.5	refusal				
570-224-0	310	26	<0.2	0.37	
570-224-0.3	18				
570-224-0.6	41				

TABLE 1 - SOIL SAMPLE RESULTS - LEAD AND PH

Sample ID	TTLC (mg/kg)	STLC (mg/l)	DI-WET (mg/l)	TCLP (mg/l)	pH
570-224-0.9	refusal				
570-224-1.5	refusal				
570-225-0	170	17	<0.2	<0.2	
570-225-0.3	110	4.7			
570-225-0.6	refusal				
570-225-0.9	refusal				
570-225-1.5	refusal				
570-226-0	16				
570-226-0.3	5.9				
570-226-0.6	9.5				
570-226-0.9	refusal				
570-226-1.5	refusal				
570-227-0	48				7.9
570-227-0.3	68	4.2			
570-227-0.6	refusal				
570-227-0.9	refusal				
570-227-1.5	refusal				
Section 400s EB (Borings 570-401 to 570-409)					
570-401-0	400	30	<0.2	0.95	
570-401-0.3	240	17	<0.2	1.7	
570-401-0.6	40			<0.2	
570-401-0.9	99	4.1		<0.2	
570-401-1.5	49			<0.2	
570-408-0	61	4		<0.2	
570-408-0.3	11				
570-408-0.6	47			<0.2	
570-408-0.9	18				
570-408-1.5	36			<0.2	
570-409-0	230	17	<0.2	<0.2	
570-409-0.3	59	3		<0.2	
570-409-0.6	refusal				
570-409-0.9	refusal				
570-409-1.5	refusal				
Section 600s EB (Borings 570-601 to 570-621)					
570-601-0	460	26	<0.2	<0.2	7
570-601-0.3	44				
570-601-0.6	47				
570-601-0.9	140	5.9	<0.2		
570-601-1.5	refusal				
570-602-0	570	41	<0.2	0.47	
570-602-0.3	67	5.1	<0.2		
570-602-0.6	110	7.1	<0.2		
570-602-0.9	130	7.2	<0.2		

TABLE 1 - SOIL SAMPLE RESULTS - LEAD AND PH

Sample ID	TTLC (mg/kg)	STLC (mg/l)	DI-WET (mg/l)	TCLP (mg/l)	pH
570-602-1.5	refusal				
570-603-0	650	28	<0.2	0.27	
570-603-0.3	140	46	0.21	1	
570-603-0.6	170	10	<0.2		7.4
570-603-0.9	refusal				
570-603-1.5	refusal				
570-610-0	72	4.7			
570-610-0.3	9.6				
570-610-0.6	1,900			12	
570-610-0.9	380	29	<0.2	0.84	
570-610-1.5	refusal				
570-611-0	200	12	<0.2		
570-611-0.3	6.8				
570-611-0.6	refusal				
570-611-0.9	refusal				
570-611-1.5	refusal				
570-612-0	5.2				
570-612-0.3	25				8.9
570-612-0.6	55	2.1			
570-612-0.9	4				
570-612-1.5	<5				
570-613-0	80	1.9			
570-613-0.3	7.9				
570-613-0.6	83	14	<0.2		
570-613-0.9	20				
570-613-1.5	refusal				
570-614-0	260	34	<0.2	<0.2	
570-614-0.3	270	0.9			
570-614-0.6	260	26	<0.2	0.5	
570-614-0.9	5.1				
570-614-1.5	5.6				
570-615-0	1,100			0.3	
570-615-0.3	5.6				
570-615-0.6	920	84	<0.2	0.45	8.3
570-615-0.9	9.4				
570-615-1.5	11				
570-616-0	380	23	<0.2	<0.2	
570-616-0.3	99	8	<0.2		
570-616-0.6	630	17	0.31	2.6	
570-616-0.9	8.7				
570-616-1.5	refusal				
570-617-0	300	21	0.25	0.8	
570-617-0.3	260	16	<0.2	<0.2	

TABLE 1 - SOIL SAMPLE RESULTS - LEAD AND PH

Sample ID	TTLC (mg/kg)	STLC (mg/l)	DI-WET (mg/l)	TCLP (mg/l)	pH
570-617-0.6	34				
570-617-0.9	refusal				
570-617-1.5	refusal				
570-618-0	150	13	<0.2		
570-618-0.3	41				7.6
570-618-0.6	7				
570-618-0.9	6.5				
570-618-1.5	5.8				
570-619-0	68	9	<0.2		
570-619-0.3	15				
570-619-0.6	6.1				
570-619-0.9	7.8				
570-619-1.5	7.2				
570-620-0	74	7.2	<0.2		
570-620-0.3	37				
570-620-0.6	refusal				
570-620-0.9	refusal				
570-620-1.5	refusal				
570-621-0	69	3.6			8.1
570-621-0.3	23				
570-621-0.6	11				
570-621-0.9	refusal				
570-621-1.5	refusal				
Section 800s EB (Borings 570-801 to 570-813)					
570-801-0	44				
570-801-0.3	13				
570-801-0.6	14				
570-801-0.9	36				
570-801-1.5	9.9				
570-802-0	63	2.8			
570-802-0.3	22				
570-802-0.6	39				
570-802-0.9	33				8.7
570-802-1.5	refusal				
570-803-0	140	1			
570-803-0.3	340	5	2.5		
570-803-0.6	260	7	<0.2		
570-803-0.9	<5				
570-803-1.5	<5				
570-804-0	1,000			2.8	
570-804-0.3	36				
570-804-0.6	720	64	<0.2	<0.2	
570-804-0.9	8.8				

TABLE 1 - SOIL SAMPLE RESULTS - LEAD AND PH

Sample ID	TTLC (mg/kg)	STLC (mg/l)	DI-WET (mg/l)	TCLP (mg/l)	pH
570-804-1.5	11				7.9
570-805-0	24				
570-805-0.3	150	14	<0.2		
570-805-0.6	54	8.1	<0.2		
570-805-0.9	210	36	<0.2	0.46	
570-805-1.5	refusal				
570-807-0	83	4.3			
570-807-0.3	9.2				
570-807-0.6	22				
570-807-0.9	280	16	<0.2	0.43	
570-807-1.5	refusal				
570-808-0	83	5.7	0.93		
570-808-0.3	52	1.4			8.8
570-808-0.6	1,400			3.2	
570-808-0.9	35				
570-808-1.5	refusal				
570-809-0	7.9				
570-809-0.3	29				
570-809-0.6	75	29	<0.2	<0.2	
570-809-0.9	19				
570-809-1.5	refusal				
570-810-0	190	7.4	<0.2		
570-810-0.3	78	4.9			
570-810-0.6	44				
570-810-0.9	8.4				
570-810-1.5	5.5				7.4
570-811-0	[2]560 ([1]110)	110	<0.2	<0.2	
570-811-0.3	290	7	<0.2		
570-811-0.6	670	15	0.20	0.51	
570-811-0.9	40				
570-811-1.5	150	90	0.4	1.4	
570-812-0	17				
570-812-0.3	1,000			2.9	
570-812-0.6	8.8				
570-812-0.9	14				
570-812-1.5	14				
570-813-0	48				8.2
570-813-0.3	6.1				
570-813-0.6	130	6.2	<0.2		
570-813-0.9	26				
570-813-1.5	refusal				

TABLE 1 - SOIL SAMPLE RESULTS - LEAD AND PH

Sample ID	TTLC (mg/kg)	STLC (mg/l)	DI-WET (mg/l)	TCLP (mg/l)	pH
Equipment Rinsate Samples (mg/l)					
EB-1	<0.0050				
EB-2	<0.0050				
EB-3	<0.0050				
EB-4	<0.0050				
EB-5	<0.0050				
EB-7	<0.0050				
EB-8	<0.0050				
EB-9	0.01				
EB-12	<0.0050				
EB-14	<0.0050				
EB-15	<0.0050				
EB-19	<0.0050				
EB-22	<0.0050				

Notes:

TTLC - Total Threshold Limit Concentrations for Lead using United States Environmental Protection Agency (EPA) Test Method No. 6010B.

STLC - Soluble Threshold Limit Concentrations for Lead using EPA Test Method No. 7420.

DI-WET - Soluble Threshold Limit Concentrations for Lead using De-Ionized Water Extraction using EPA Test Method No. 7420.

TCLP - Toxic Characteristic Leaching Procedure for Lead using EPA Test Method Nos. 1311/7420.

EPA - United States Environmental Protection Agency

mg/kg - milligrams per kilogram

mg/l - milligrams per liter

WB - westbound

EB - eastbound

Blank indicates not analyzed.

[1]Initial analytical result.

[2]Analytical result used in statistical evaluation and calculations.

Refusal indicates a proposed sample was not collected due to refusal of soil conditions encountered during drilling at that depth.

All of the boring locations in a section may not have been drilled, as described in the text.

TABLE 2 - ANALYTICAL RESULTS FOR METALS

Sample ID	Sample Date	Sb (mg/kg)	As (mg/kg)	Ba (mg/kg)	Be (mg/kg)	Cd (mg/kg)	Total Cr (mg/kg)	Co (mg/kg)	Cu (mg/kg)	Hg (mg/kg)	Mo (mg/kg)	Ni (mg/kg)	Se (mg/kg)	Ag (mg/kg)	Tl (mg/kg)	V (mg/kg)	Zn (mg/kg)
570-101-0	7/15/02	0.4	10	140	ND	ND	10	5	55	0.1	2.8	20	ND	0.3	ND	25	380
570-101-0.6	7/15/02	2	10	220	ND	0.6	20	5	120	0.15	5	20	ND	0.4	0.7	20	690
570-106-0.3	7/15/02	0.6	5	100	ND	ND	5	5	10	0.13	0.08	5	ND	0.1	2	20	40
570-111-0.6	7/15/02	1	15	220	ND	ND	20	15	40	0.06	0.4	20	ND	ND	4.9	70	90
570-115-0.3	7/15/02	ND	5	75	ND	ND	5	5	5	ND	ND	10	ND	0.2	2.6	30	40
570-119-0.6	7/17/02	3.5	2	210	ND	0.5	31	21	48	0.08	ND	25	8.4	ND	ND	77	140
570-201-0	7/15/02	2	10	160	ND	ND	15	5	70	0.12	2	15	ND	0.3	4	25	360
570-205-0.9	7/15/02	0.2	15	180	ND	ND	15	10	35	0.21	0.6	15	ND	ND	ND	50	85
570-208-0.3	7/15/02	0.4	15	200	ND	ND	20	10	60	0.41	3	20	ND	0.03	0.6	45	340
570-214-0.0	7/15/02	2	20	210	ND	1	20	5	110	0.17	3.2	25	ND	0.3	2	30	590
570-224-0.6	7/16/02	2	10	140	ND	ND	10	10	25	0.04	0.2	10	ND	0.1	2	45	85
570-304-1.5	7/16/02	1	15	660	ND	ND	20	15	45	0.03	ND	15	ND	0.1	1	55	760
570-307-0.9	7/16/02	1	10	100	ND	ND	5	5	15	0.04	0.7	5	ND	0.2	0.7	35	45
570-311-0.6	7/16/02	0.5	10	210	ND	0.7	20	15	140	0.1	5	40	ND	0.6	2.5	25	660
570-312-0.6	7/16/02	2.9	10	270	ND	1	30	10	130	0.3	5	35	ND	0.6	1	30	710
570-316-0.3	7/16/02	2	15	160	ND	ND	15	15	25	0.03	ND	15	ND	ND	2.6	55	70
570-401-0	7/16/02	0.9	10	140	ND	ND	15	10	30	0.9	15	ND	0.1	2	55	140	0.04
570-401-0.3	7/16/02	0.8	10	120	ND	ND	10	5	25	1	15	ND	0.3	2.6	55	95	0.04
570-505-1.5	7/17/02	ND	3.1	240	ND	2.6	32	11	69	0.14	5.5	32	11	ND	ND	43	520
570-508-0.0	7/17/02	0.2	2.8	110	ND	0.4	15	11	27	0.04	0.3	13	4.5	ND	ND	40	82
570-511-0.9	7/17/02	2	0	160	ND	0.6	25	17	26	0.03	ND	20	5.6	ND	ND	65	93
570-514-0.3	7/17/02	0.4	ND	180	ND	0.3	26	19	30	0.08	0.03	21	7.9	ND	ND	67	78
570-517-0	7/17/02	2	3.1	180	ND	1	25	15	45	0.09	0.3	20	6.9	ND	ND	57	220
570-601-0	7/16/02	2	10	120	ND	ND	10	5	40	0.16	1	10	ND	0.08	2	30	340
570-610-0.6	7/16/02	2	10	180	ND	ND	25	10	90	0.13	4.1	30	ND	0.2	0.08	50	600
570-615-0	7/16/02	1	15	160	ND	ND	15	15	30	0.4	15	ND	0.1	3.7	55	95	0.19
570-618-0.6	7/16/02	0.6	15	190	ND	ND	15	15	35	1	15	ND	0.02	1	60	80	0.04
570-621-0.3	7/16/02	0.9	10	140	ND	ND	5	10	25	0.4	10	ND	ND	2.6	40	90	0.07
570-703-0.3	7/18/02	1	3.9	140	ND	0.8	21	12	36	0.11	1	16	10	ND	ND	42	190

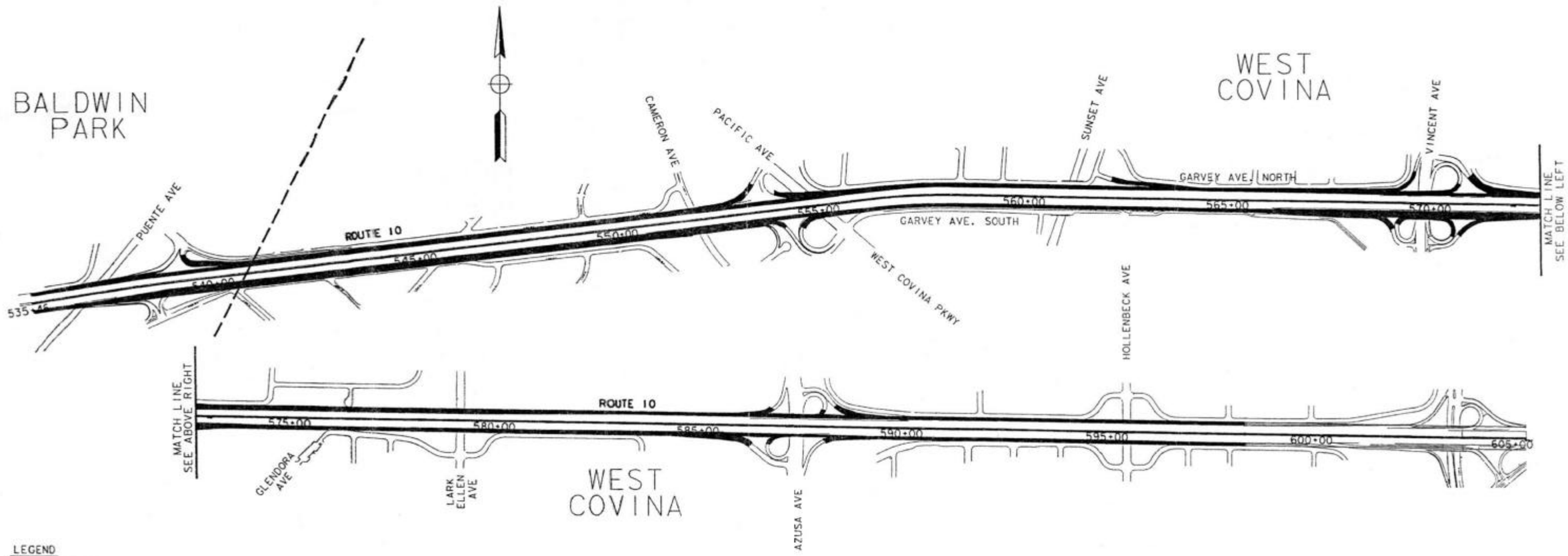
TABLE 2 - ANALYTICAL RESULTS FOR METALS

Sample ID	Sample Date	Sb (mg/kg)	As (mg/kg)	Ba (mg/kg)	Be (mg/kg)	Cd (mg/kg)	Total Cr (mg/kg)	Co (mg/kg)	Cu (mg/kg)	Hg (mg/kg)	Mo (mg/kg)	Ni (mg/kg)	Se (mg/kg)	Ag (mg/kg)	Tl (mg/kg)	V (mg/kg)	Zn (mg/kg)
570-706-0	7/18/02	2	3.1	160	ND	1	24	13	61	0.09	1	21	12	ND	ND	46	270
570-709-0	7/18/02	2	2	120	ND	0.3	14	9.7	20	0.09	0.6	11	15	ND	ND	34	130
570-711-1.5	7/18/02	2	1	180	ND	0.2	20	14	23	0.05	ND	17	10	ND	ND	51	64
570-804-0	7/17/02	0.7	4.7	170	ND	2.8	35	14	61	0.05	2.5	29	8.4	ND	ND	53	440
570-808-0.6	7/17/02	2.9	2	150	ND	0.7	24	14	32	0.1	0.8	21	7	ND	ND	56	160
570-812-0.3	7/17/02	1	3.7	130	ND	0.4	21	15	21	0.14	ND	16	12	ND	ND	56	69

Notes:

Sb = antimony
As = arsenic
Ba = barium
Be = beryllium
Cd = cadmium
Total Cr = total chromium
Co = cobalt
Cu = copper
mg/kg = milligrams per kilogram
ND = not detected
Hg = mercury analyzed using EPA Method 7471.
Mo = molybdenum
Ni = nickel
Se = selenium
Ag = silver
Tl = thallium
V = vanadium
Zn = zinc

Samples were analyzed using United States Environmental Protection Agency (EPA) Test Method Nos. 6010B/7471A.



LEGEND

CONSTRUCTION THIS STAGE*

NOTES

* FOR SPECIFIC CONSTRUCTION FEATURES AND TRAFFIC OPERATIONS PHASED DURING STAGE 1, SEE FIGURES 3 THROUGH 5

NOT TO SCALE

Ninyo & Moore

SITE LOCATION MAP - SEGMENT 2

I-10 HOV WIDENING
EA 11708 (KP 53.8 to 60.3)
PUENTE AVENUE TO CITRUS AVENUE
LOS ANGELES COUNTY, CALIFORNIA

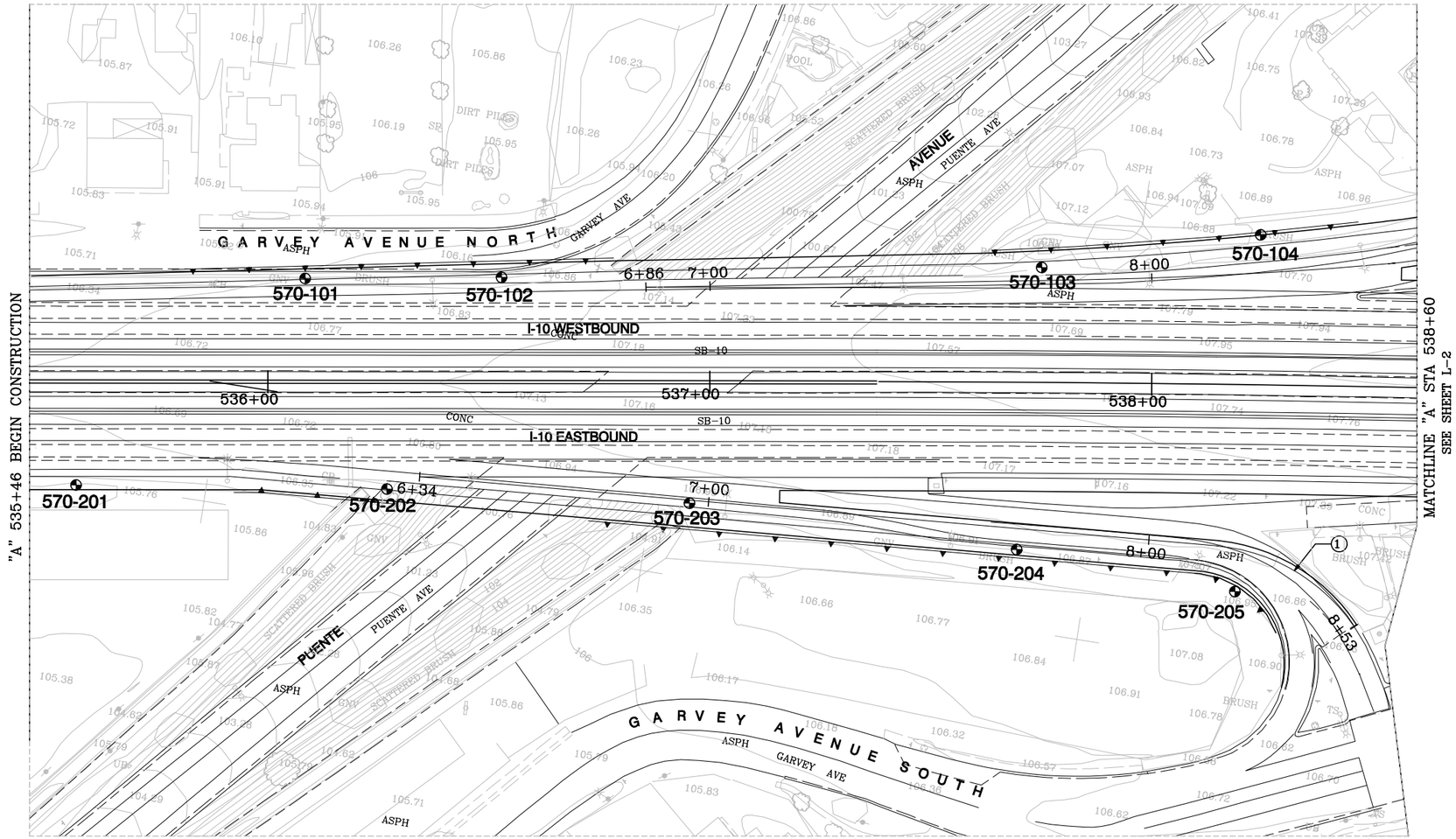
PROJECT NO.	DATE	FIGURE
203939001	9/2002	1

REFERENCE: LAYOUT PLAN PROVIDED BY CALIFORNIA DEPARTMENT OF TRANSPORTATION, 4/23/02.

NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

203939-B60.DWG

CURVE NO	R (m)	Δ	L (m)	T (m)
①	42	50°49'04"	38.21	20.03



LEGEND

▨	PROPOSED BRIDGE WIDENING OR REPLACEMENT
—▪—	PROPOSED RETAINING WALL
—▲—	PROPOSED SOUNDWALL
570-205	APPROXIMATE LOCATION OF BORING

REFERENCE: LAYOUT PLAN PROVIDED BY CALIFORNIA DEPARTMENT OF TRANSPORTATION, 4/23/02.

NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

N

0 10 20 30 40

APPROXIMATE SCALE IN METERS

Ninyo & Moore

BORING LOCATION MAP - LAYOUT L-1

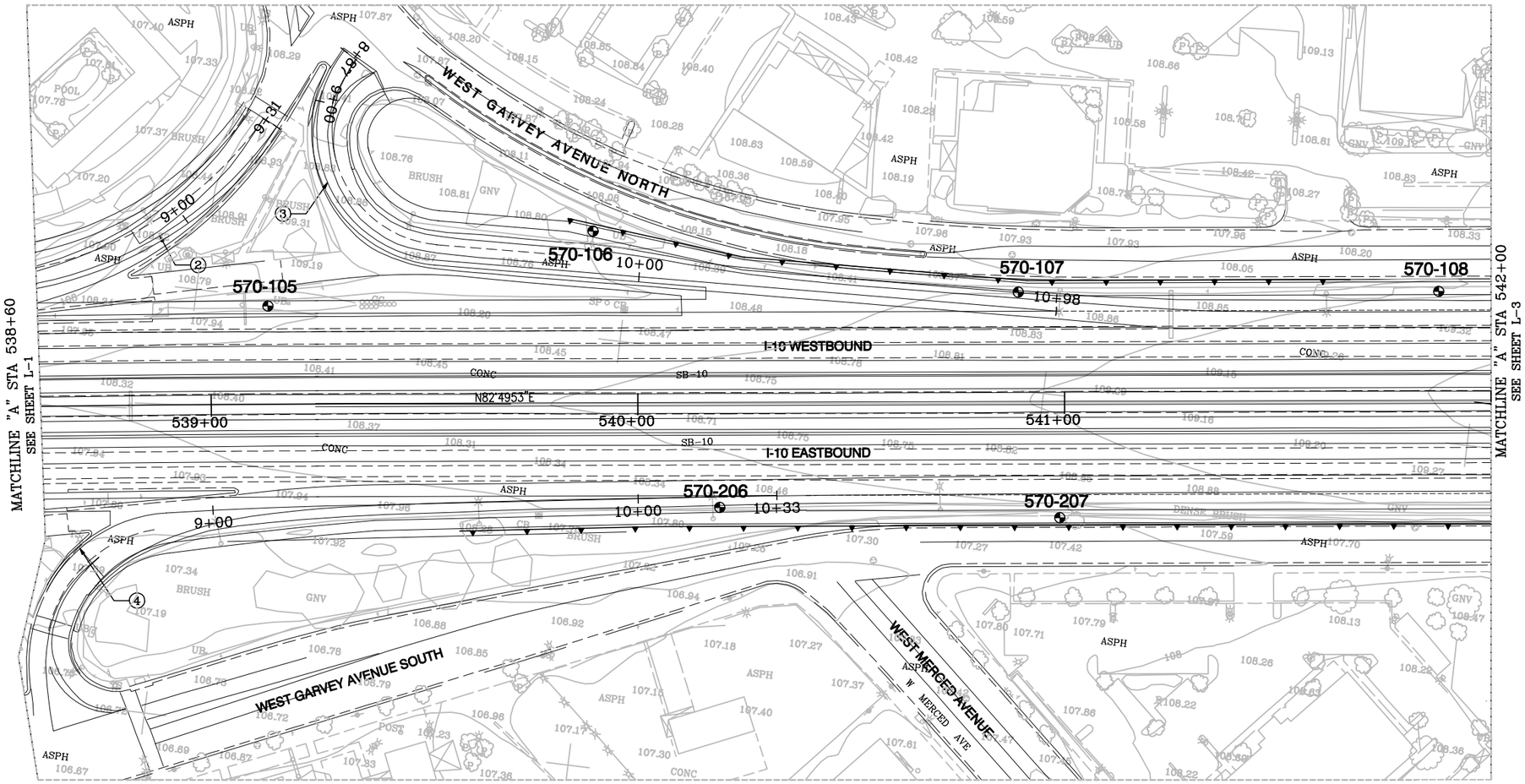
I-10 HOV WIDENING
EA 11708 (KP 53.8 to 60.3)
PUENTE AVENUE TO CITRUS AVENUE
LOS ANGELES COUNTY, CALIFORNIA

PROJECT NO.	DATE
203939001	9/2002

SEGMENT 2
L-1 OF L-20

203939-B15.DWG

CURVE NO	R (m)	Δ	L (m)	T (m)
2	90	47°59'47"	40.07	75.39
3	30.5	123°16'37"	56.46	65.58
4	34	75°13'15"	44.64	26.19



LEGEND

▨	PROPOSED BRIDGE WIDENING OR REPLACEMENT
—•—	PROPOSED RETAINING WALL
—▲—	PROPOSED SOUNDWALL
570-206 ⊕	APPROXIMATE LOCATION OF BORING

N

0 10 20 30 40
APPROXIMATE SCALE IN METERS

REFERENCE: LAYOUT PLAN PROVIDED BY CALIFORNIA DEPARTMENT OF TRANSPORTATION, 4/23/02.
NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

Ninyo & Moore

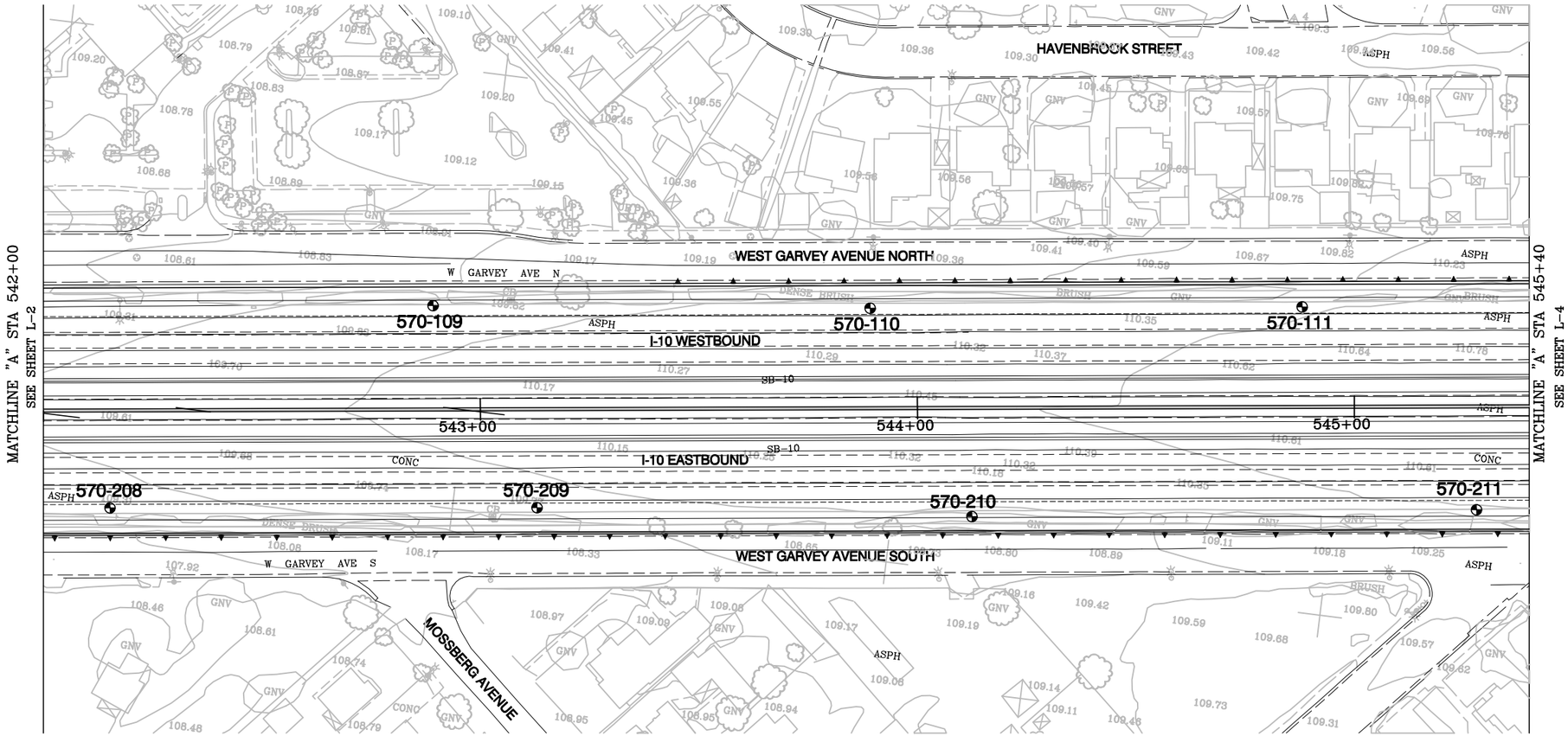
BORING LOCATION MAP - LAYOUT L-2

I-10 HOV WIDENING
EA 11708 (KP 53.8 to 60.3)
PUENTE AVENUE TO CITRUS AVENUE
LOS ANGELES COUNTY, CALIFORNIA

PROJECT NO.	DATE
203939001	9/2002

SEGMENT 2
L-2 OF L-20

203939-B56.DWG



LEGEND

▨	PROPOSED BRIDGE WIDENING OR REPLACEMENT
—▪—	PROPOSED RETAINING WALL
—▲—	PROPOSED SOUNDWALL
570-211	APPROXIMATE LOCATION OF BORING

0 10 20 30 40

APPROXIMATE SCALE IN METERS

REFERENCE: LAYOUT PLAN PROVIDED BY CALIFORNIA DEPARTMENT OF TRANSPORTATION, 4/23/02.

NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

Ninyo & Moore

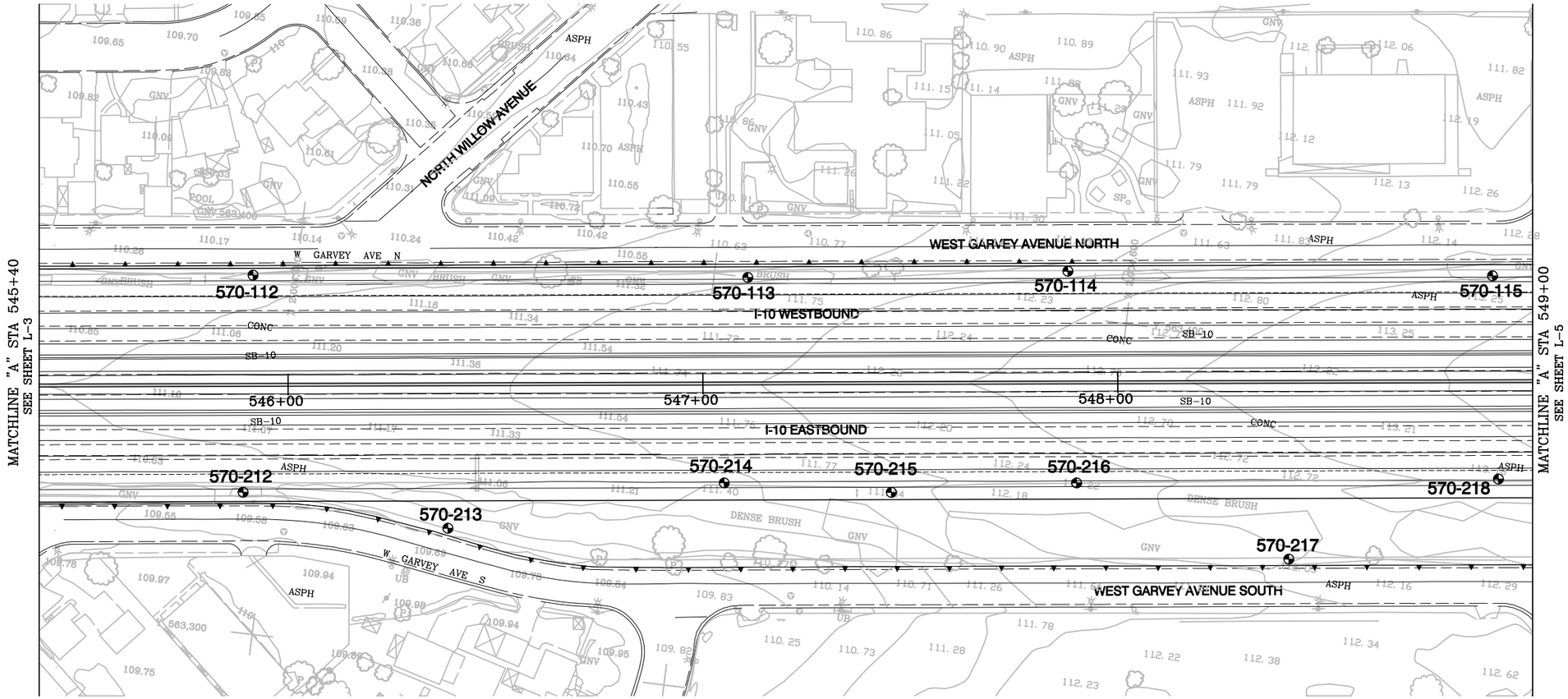
BORING LOCATION MAP - LAYOUT L-3

I-10 HOV WIDENING
EA 11708 (KP 53.8 to 60.3)
PUENTE AVENUE TO CITRUS AVENUE
LOS ANGELES COUNTY, CALIFORNIA

PROJECT NO.	DATE
203939001	9/2002

SEGMENT 2
L-3 OF L-20

203939-B16.DWG



LEGEND

▨	PROPOSED BRIDGE WIDENING OR REPLACEMENT
—▪—	PROPOSED RETAINING WALL
—▲—	PROPOSED SOUNDWALL
570-218	APPROXIMATE LOCATION OF BORING

REFERENCE: LAYOUT PLAN PROVIDED BY CALIFORNIA DEPARTMENT OF TRANSPORTATION, 4/23/02.

NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

0 10 20 30 40

APPROXIMATE SCALE IN METERS

Ninyo & Moore

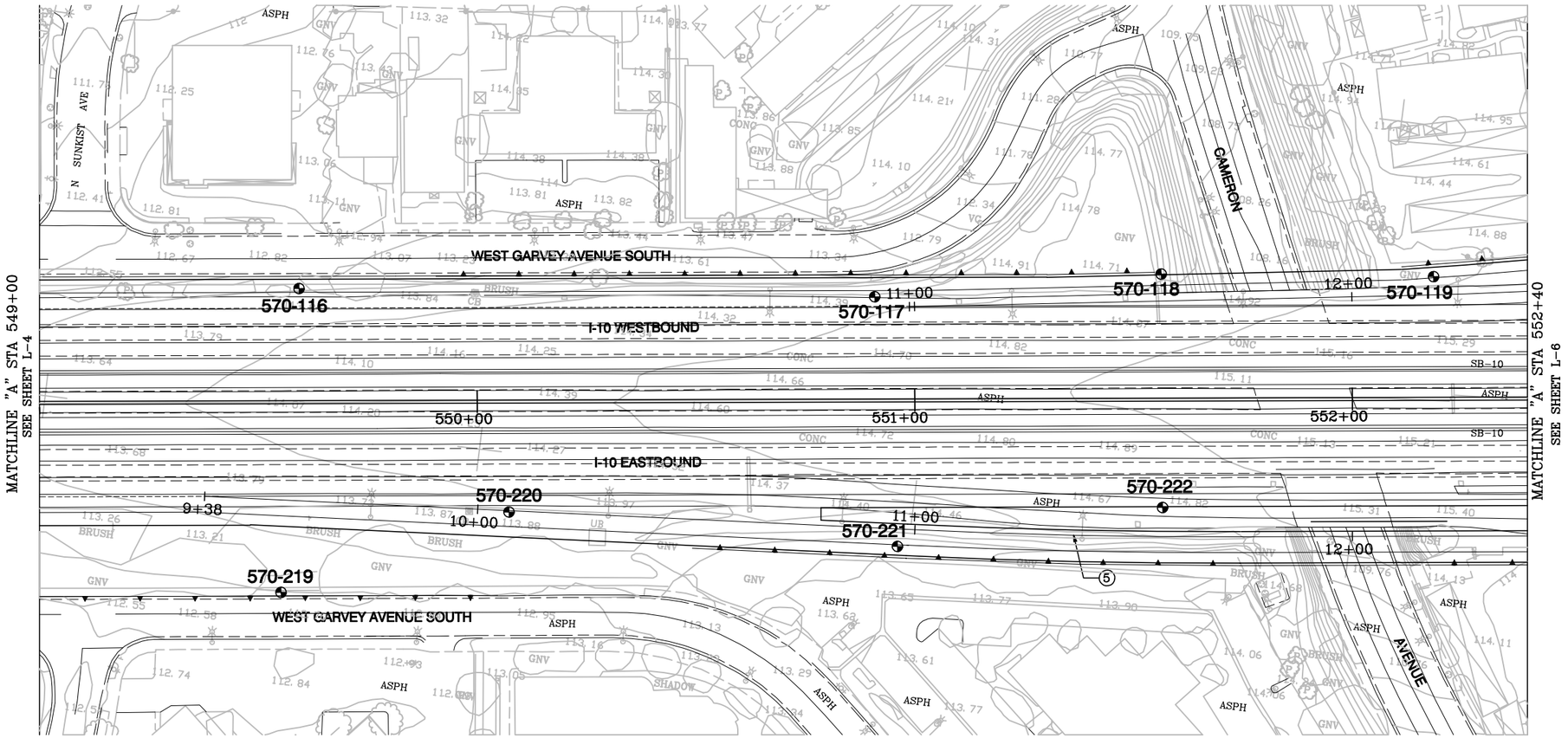
BORING LOCATION MAP - LAYOUT L-4

I-10 HOV WIDENING
EA 11708 (KP 53.8 to 60.3)
PUENTE AVENUE TO CITRUS AVENUE
LOS ANGELES COUNTY, CALIFORNIA

PROJECT NO.	DATE	SEGMENT 2
203939001	9/2002	L-4 OF L-20

203939-B17.DWG

CURVE NO	R (m)	Δ	L (m)	T (m)
5	1254	2°51'45"	76.14	38.08



LEGEND

▨	PROPOSED BRIDGE WIDENING OR REPLACEMENT
—▪—	PROPOSED RETAINING WALL
—▲—	PROPOSED SOUNDWALL
570-222	APPROXIMATE LOCATION OF BORING

N

0 10 20 30 40

APPROXIMATE SCALE IN METERS

Ninyo & Moore

BORING LOCATION MAP - LAYOUT L-5

I-10 HOV WIDENING
EA 11708 (KP 53.8 to 60.3)
PUENTE AVENUE TO CITRUS AVENUE
LOS ANGELES COUNTY, CALIFORNIA

PROJECT NO.	DATE
203939001	9/2002

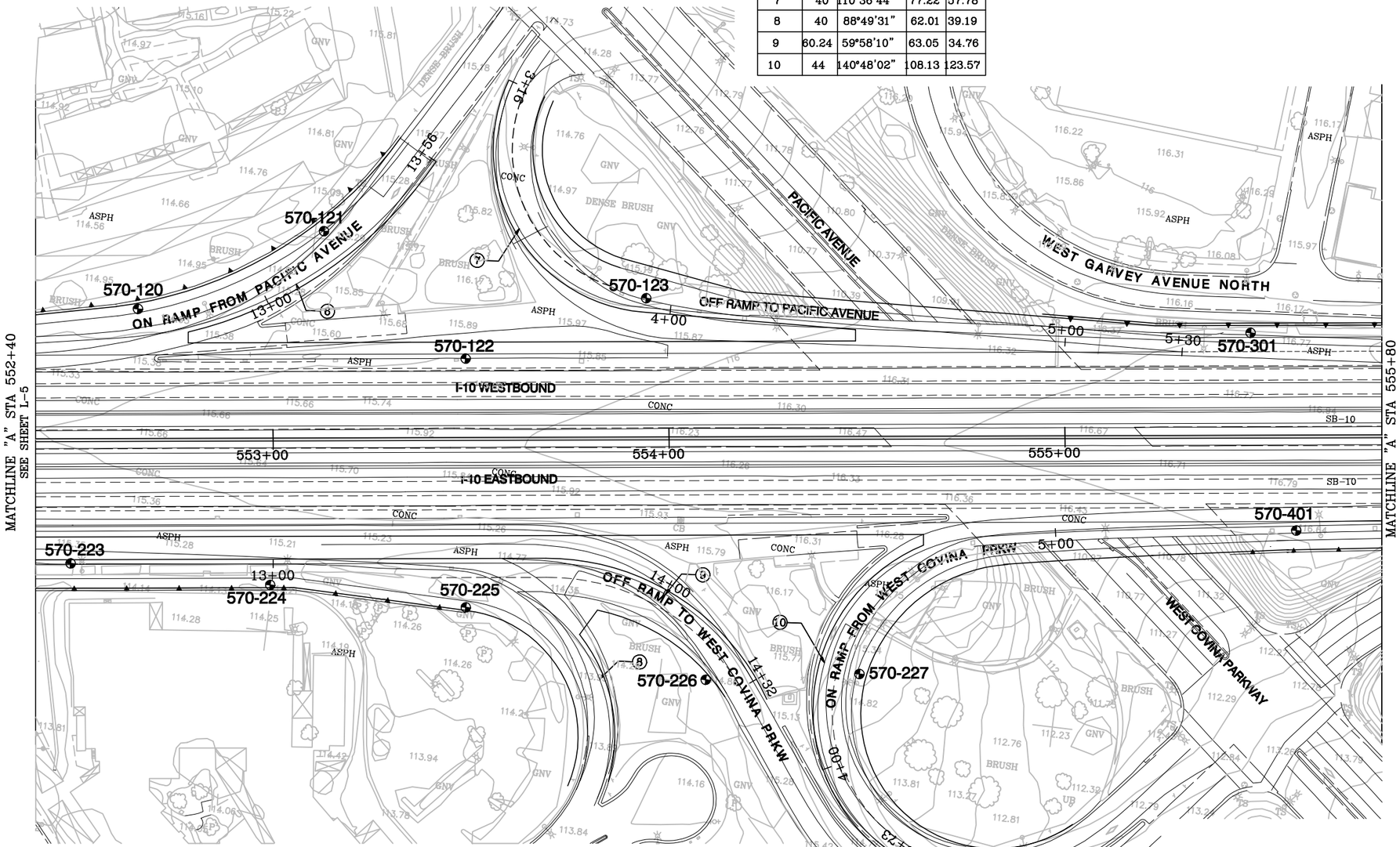
SEGMENT 2
L-5 OF L-20

REFERENCE: LAYOUT PLAN PROVIDED BY CALIFORNIA DEPARTMENT OF TRANSPORTATION, 4/23/02.

NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

203939-B18.DWG

CURVE NO	R (m)	Δ	L (m)	T (m)
6	105	53°23'10"	94.17	50.52
7	40	110°36'44"	77.22	57.78
8	40	88°49'31"	62.01	39.19
9	60.24	59°58'10"	63.05	34.76
10	44	140°48'02"	108.13	123.57



LEGEND

▨	PROPOSED BRIDGE WIDENING OR REPLACEMENT
—▪—	PROPOSED RETAINING WALL
—▲—	PROPOSED SOUNDWALL
570-401 ⊕	APPROXIMATE LOCATION OF BORING

N

0 10 20 30 40
APPROXIMATE SCALE IN METERS

Ninyo & Moore

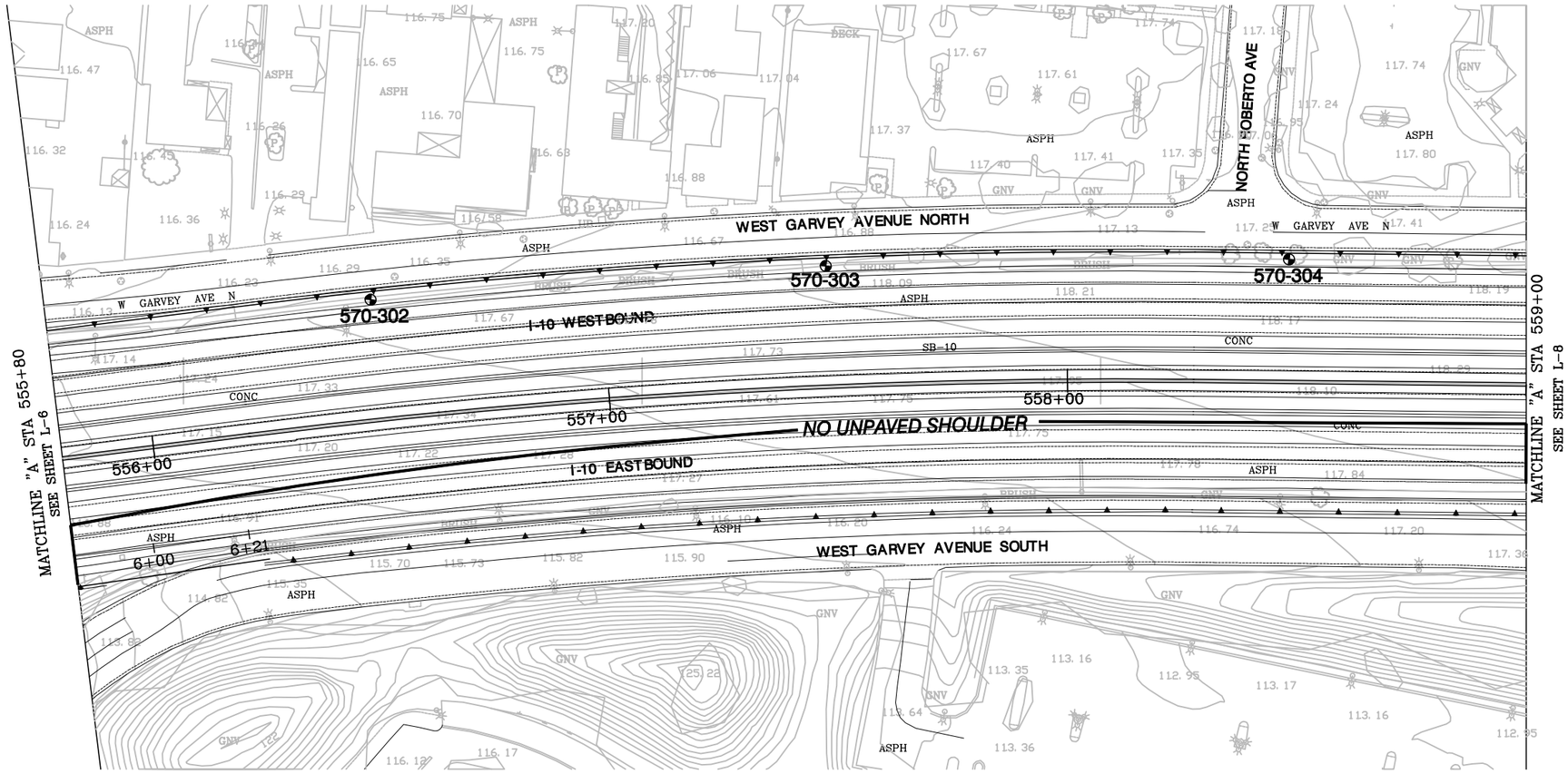
BORING LOCATION MAP - LAYOUT L-6

I-10 HOV WIDENING
EA 11708 (KP 53.8 to 60.3)
PUENTE AVENUE TO CITRUS AVENUE
LOS ANGELES COUNTY, CALIFORNIA

PROJECT NO.	DATE	SEGMENT 2
203939001	9/2002	L-6 OF L-20

REFERENCE: LAYOUT PLAN PROVIDED BY CALIFORNIA DEPARTMENT OF TRANSPORTATION, 4/23/02.
NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

203939-B57.DWG



LEGEND

▨	PROPOSED BRIDGE WIDENING OR REPLACEMENT
—•—	PROPOSED RETAINING WALL
—▲—	PROPOSED SOUNDWALL
570-302	APPROXIMATE LOCATION OF BORING

N

0 10 20 30 40

APPROXIMATE SCALE IN METERS

Ninyo & Moore

BORING LOCATION MAP - LAYOUT L-7

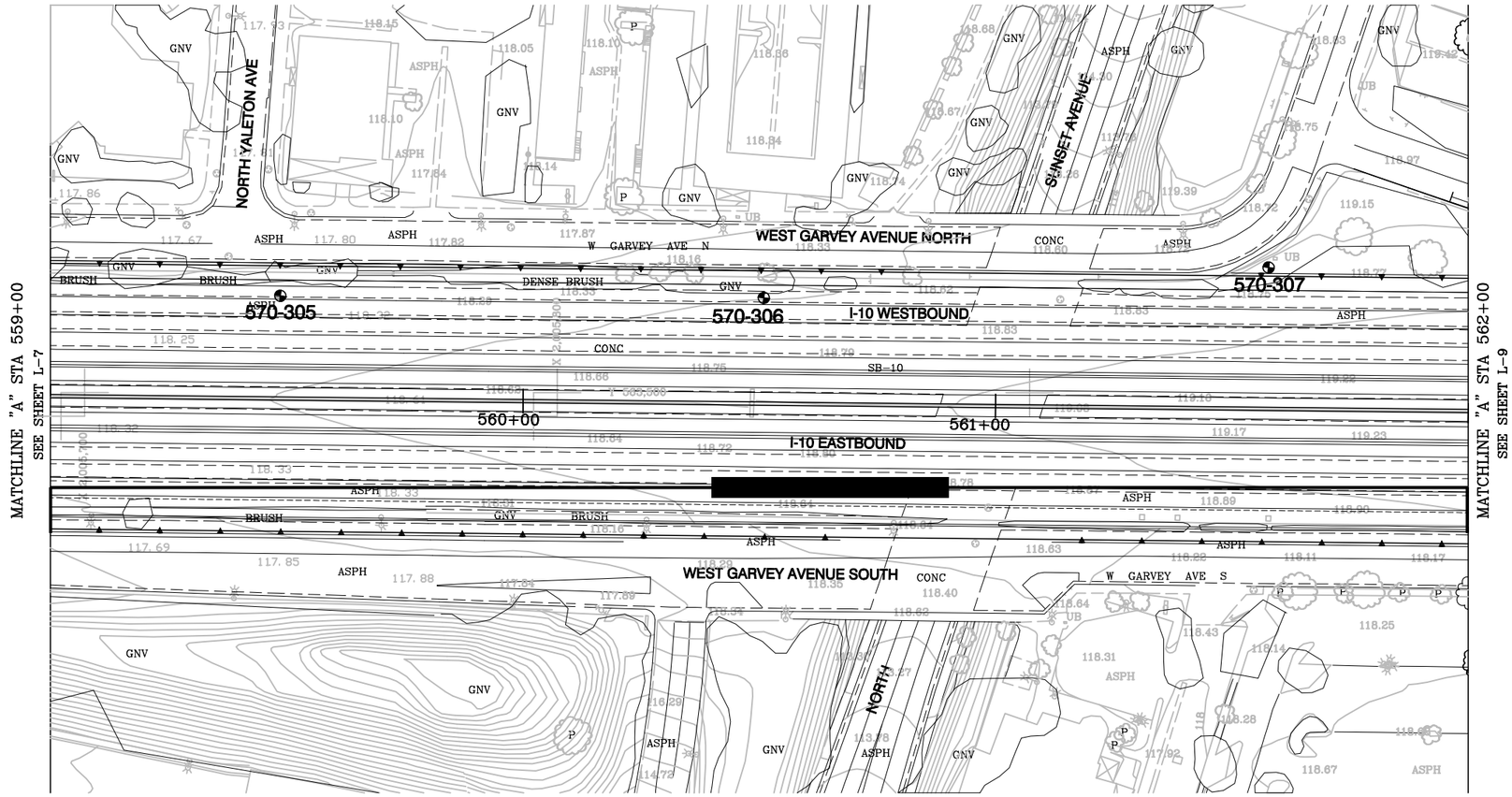
I-10 HOV WIDENING
EA 11708 (KP 53.8 to 60.3)
PUENTE AVENUE TO CITRUS AVENUE
LOS ANGELES COUNTY, CALIFORNIA

PROJECT NO.	DATE	SEGMENT 2
203939001	9/2002	L-7 OF L-20

REFERENCE: LAYOUT PLAN PROVIDED BY CALIFORNIA DEPARTMENT OF TRANSPORTATION, 4/23/02.

NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

203939-B19.DWG



LEGEND

▨	PROPOSED BRIDGE WIDENING OR REPLACEMENT
—▪—	PROPOSED RETAINING WALL
—▲—	PROPOSED SOUNDWALL
570-305 ⊕	APPROXIMATE LOCATION OF BORING

N

0 10 20 30 40

APPROXIMATE SCALE IN METERS

Ninyo & Moore

BORING LOCATION MAP - LAYOUT L-8

I-10 HOV WIDENING
EA 11708 (KP 53.8 to 60.3)
PUENTE AVENUE TO CITRUS AVENUE
LOS ANGELES COUNTY, CALIFORNIA

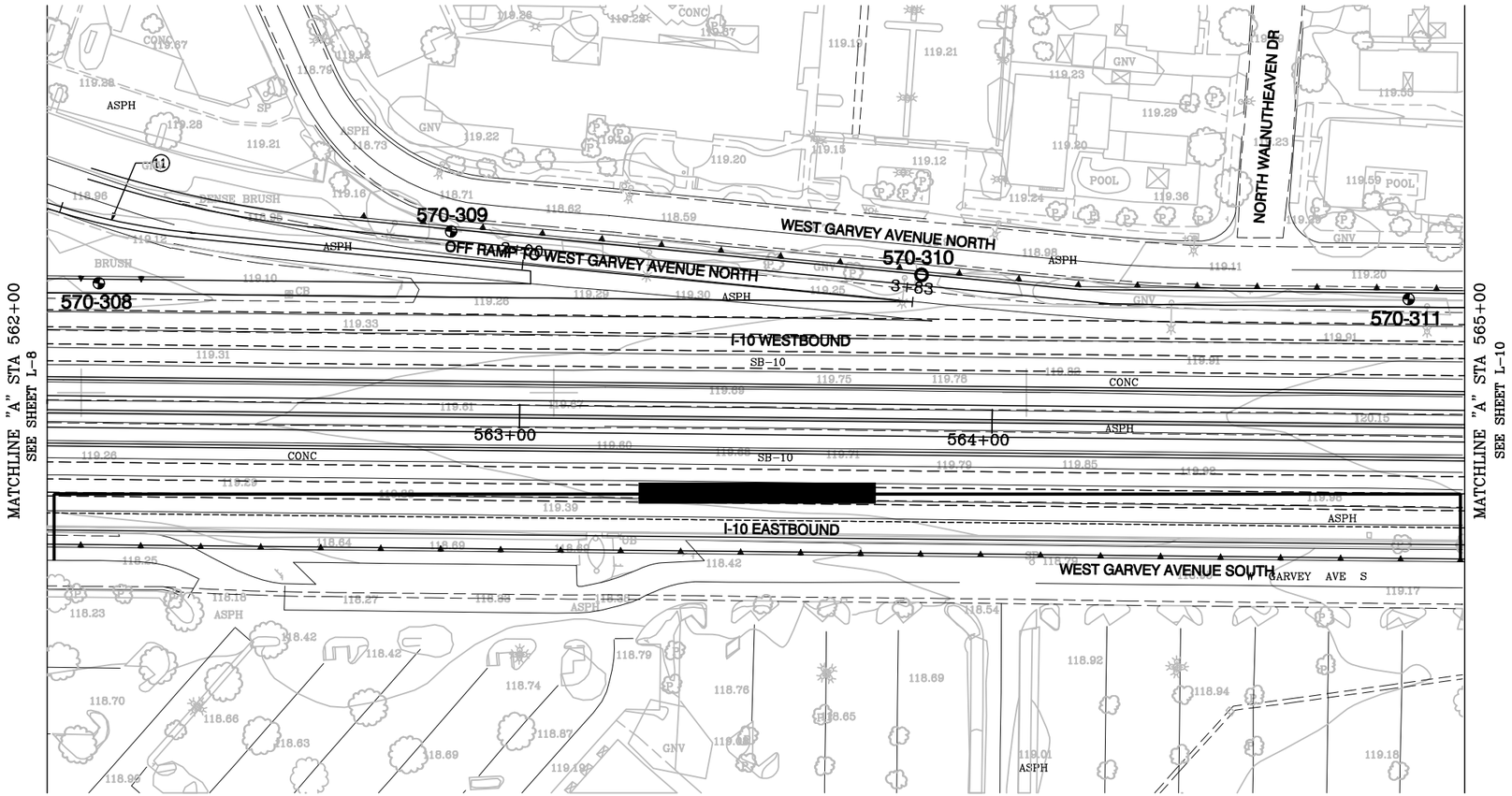
PROJECT NO.	DATE	SEGMENT 2
203939001	9/2002	L-8 OF L-20

REFERENCE: LAYOUT PLAN PROVIDED BY CALIFORNIA DEPARTMENT OF TRANSPORTATION, 4/23/02.

NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

203939-B20.DWG

CURVE NO	R (m)	Δ	L (m)	T (m)
11	148.8	13°44'32"	35.69	17.93



LEGEND

	PROPOSED BRIDGE WIDENING OR REPLACEMENT
	PROPOSED RETAINING WALL
	PROPOSED SOUNDWALL
570-311	APPROXIMATE LOCATION OF PROPOSED BORING
570-310	APPROXIMATE LOCATION OF ATTEMPTED BORING, IRRIGATION WATER LINE ENCOUNTERED

0 10 20 30 40
APPROXIMATE SCALE IN METERS

REFERENCE: LAYOUT PLAN PROVIDED BY CALIFORNIA DEPARTMENT OF TRANSPORTATION, 4/23/02.

NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

Ninyo & Moore

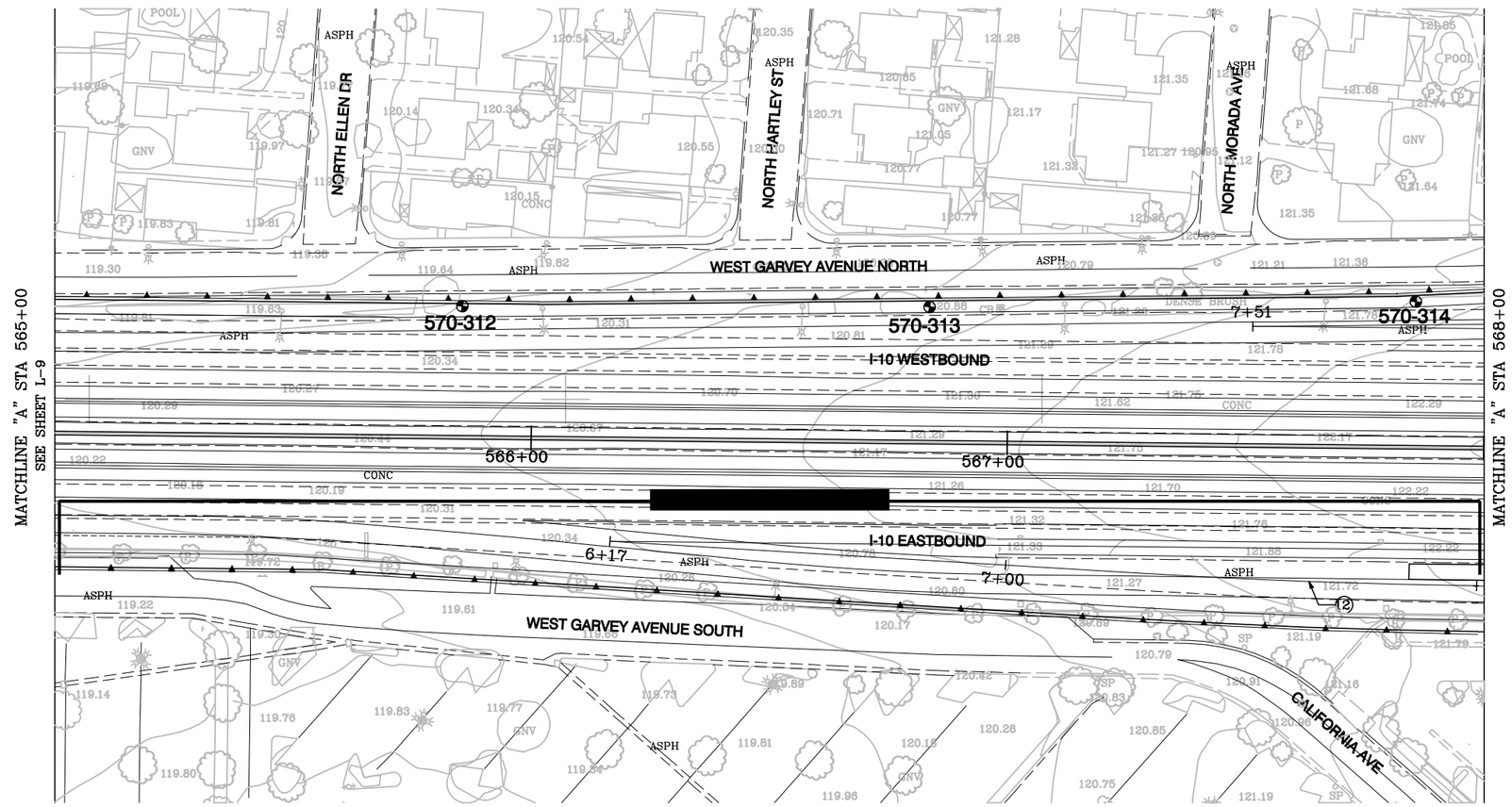
BORING LOCATION MAP - LAYOUT L-9

I-10 HOV WIDENING
EA 11708 (KP 53.8 to 60.3)
PUENTE AVENUE TO CITRUS AVENUE
LOS ANGELES COUNTY, CALIFORNIA

PROJECT NO.	DATE	SEGMENT 2
203939001	9/2002	L-9 OF L-20

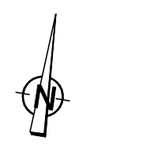
203939-B21.DWG

CURVE NO	R (m)	Δ	L (m)	T (m)
12	1524	2°40'26"	71.12	35.57



LEGEND

	PROPOSED BRIDGE WIDENING OR REPLACEMENT
	PROPOSED RETAINING WALL
	PROPOSED SOUNDWALL
570-314	APPROXIMATE LOCATION OF BORING



0 10 20 30 40
APPROXIMATE SCALE IN METERS

Ninyo & Moore

BORING LOCATION MAP - LAYOUT L-10

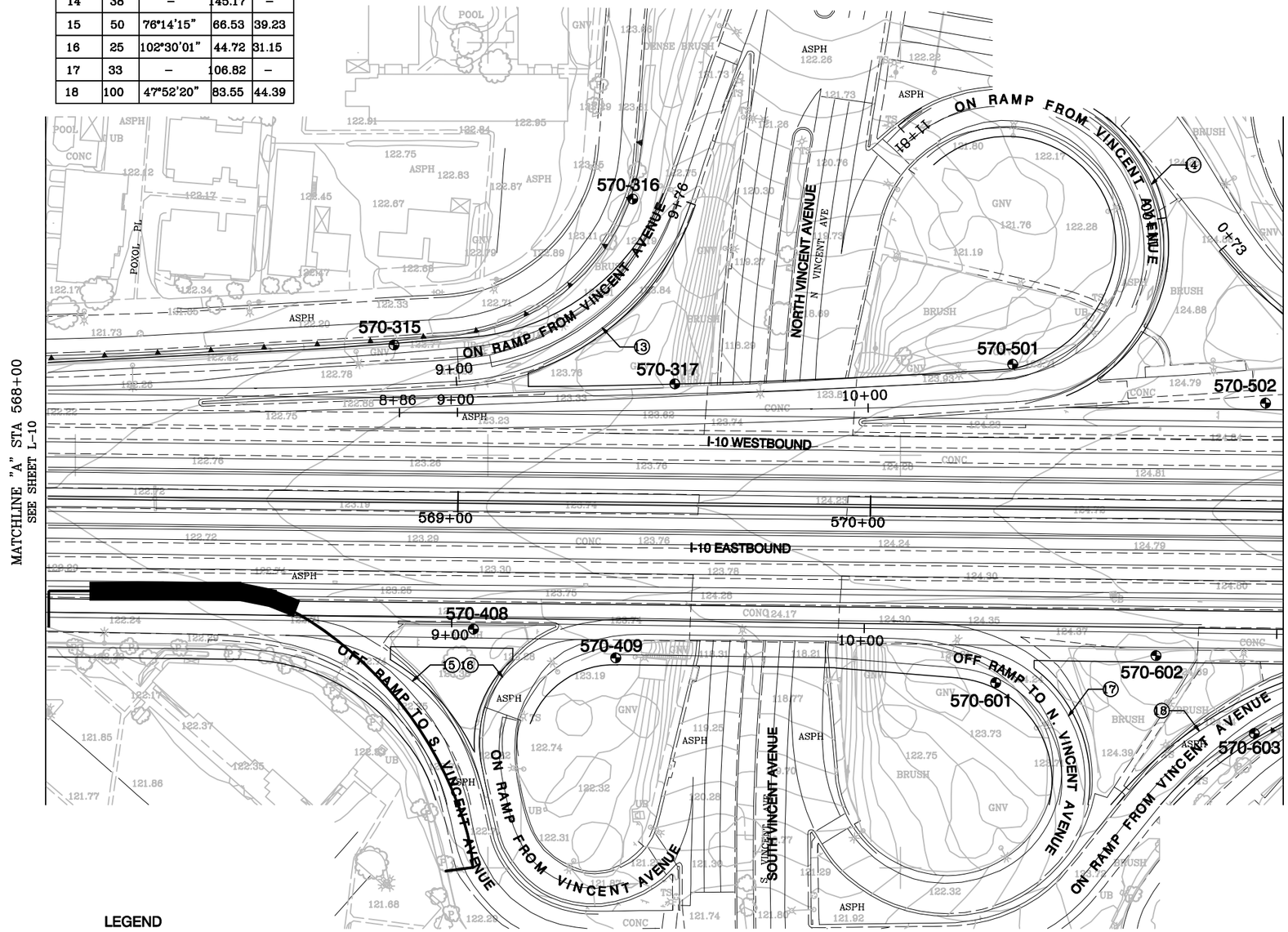
I-10 HOV WIDENING
EA 11708 (KP 53.8 to 60.3)
PUENTE AVENUE TO CITRUS AVENUE
LOS ANGELES COUNTY, CALIFORNIA

PROJECT NO.	DATE	SEGMENT 2
203939001	9/2002	L-10 OF L-20

REFERENCE: LAYOUT PLAN PROVIDED BY CALIFORNIA DEPARTMENT OF TRANSPORTATION, 4/23/02.
NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

203939-B22.DWG

CURVE NO	R (m)	Δ	L (m)	T (m)
13	63	68°21'30"	75.16	42.78
14	38	–	145.17	–
15	50	76°14'15"	66.53	39.23
16	25	102°30'01"	44.72	31.15
17	33	–	106.82	–
18	100	47°52'20"	83.55	44.39



LEGEND

- PROPOSED BRIDGE WIDENING OR REPLACEMENT
- PROPOSED RETAINING WALL
- PROPOSED SOUNDWALL
- 570-603 — APPROXIMATE LOCATION OF BORING

0 10 20 30 40
APPROXIMATE SCALE IN METERS

Ninyo & Moore

BORING LOCATION MAP - LAYOUT L-11

I-10 HOV WIDENING
EA 11708 (KP 53.8 to 60.3)
PUENTE AVENUE TO CITRUS AVENUE
LOS ANGELES COUNTY, CALIFORNIA

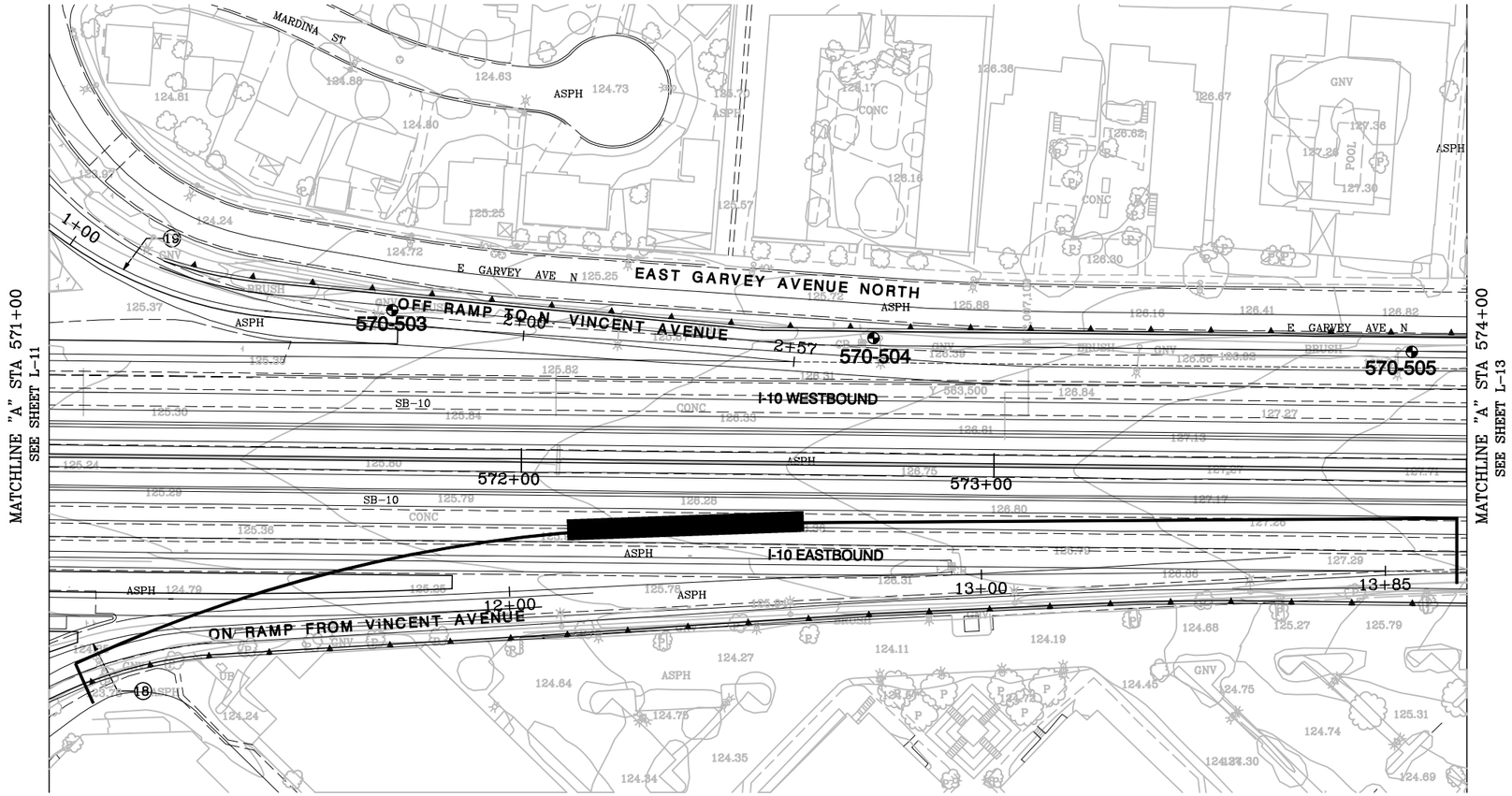
PROJECT NO.	DATE
203939001	9/2002

SEGMENT 2
L-11 OF L-20

REFERENCE: LAYOUT PLAN PROVIDED BY CALIFORNIA DEPARTMENT OF TRANSPORTATION, 4/23/02.
NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

203939-B23.DWG

CURVE NO	R (m)	Δ	L (m)	T (m)
18	100	47°52'20"	83.55	44.39
19	90	45°41'33"	71.77	37.92



LEGEND

▨	PROPOSED BRIDGE WIDENING OR REPLACEMENT
—▪—	PROPOSED RETAINING WALL
—▲—	PROPOSED SOUNDWALL
570-503 ⊕	APPROXIMATE LOCATION OF BORING

N

0 10 20 30 40

APPROXIMATE SCALE IN METERS

Ninyo & Moore

BORING LOCATION MAP - LAYOUT L-12

I-10 HOV WIDENING
EA 11708 (KP 53.8 to 60.3)
PUENTE AVENUE TO CITRUS AVENUE
LOS ANGELES COUNTY, CALIFORNIA

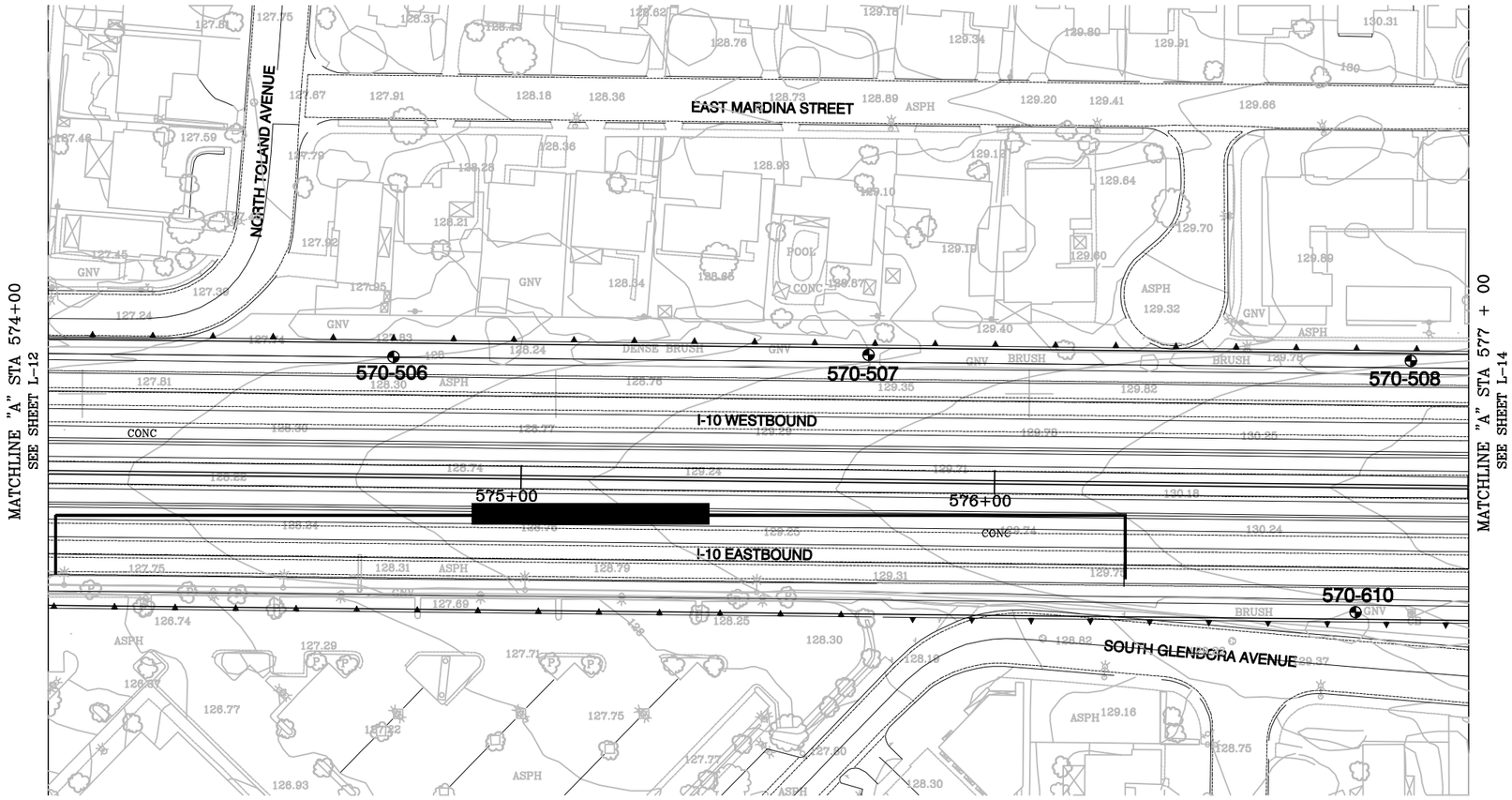
PROJECT NO.	DATE
203939001	9/2002

SEGMENT 2
L-12 OF L-20

REFERENCE: LAYOUT PLAN PROVIDED BY CALIFORNIA DEPARTMENT OF TRANSPORTATION, 4/23/02.

NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

203939-B58.DWG



LEGEND

	PROPOSED BRIDGE WIDENING OR REPLACEMENT
	PROPOSED RETAINING WALL
	PROPOSED SOUNDWALL
570-506	APPROXIMATE LOCATION OF BORING

N

0 10 20 30 40

APPROXIMATE SCALE IN METERS

Ninyo & Moore

BORING LOCATION MAP - LAYOUT L-13

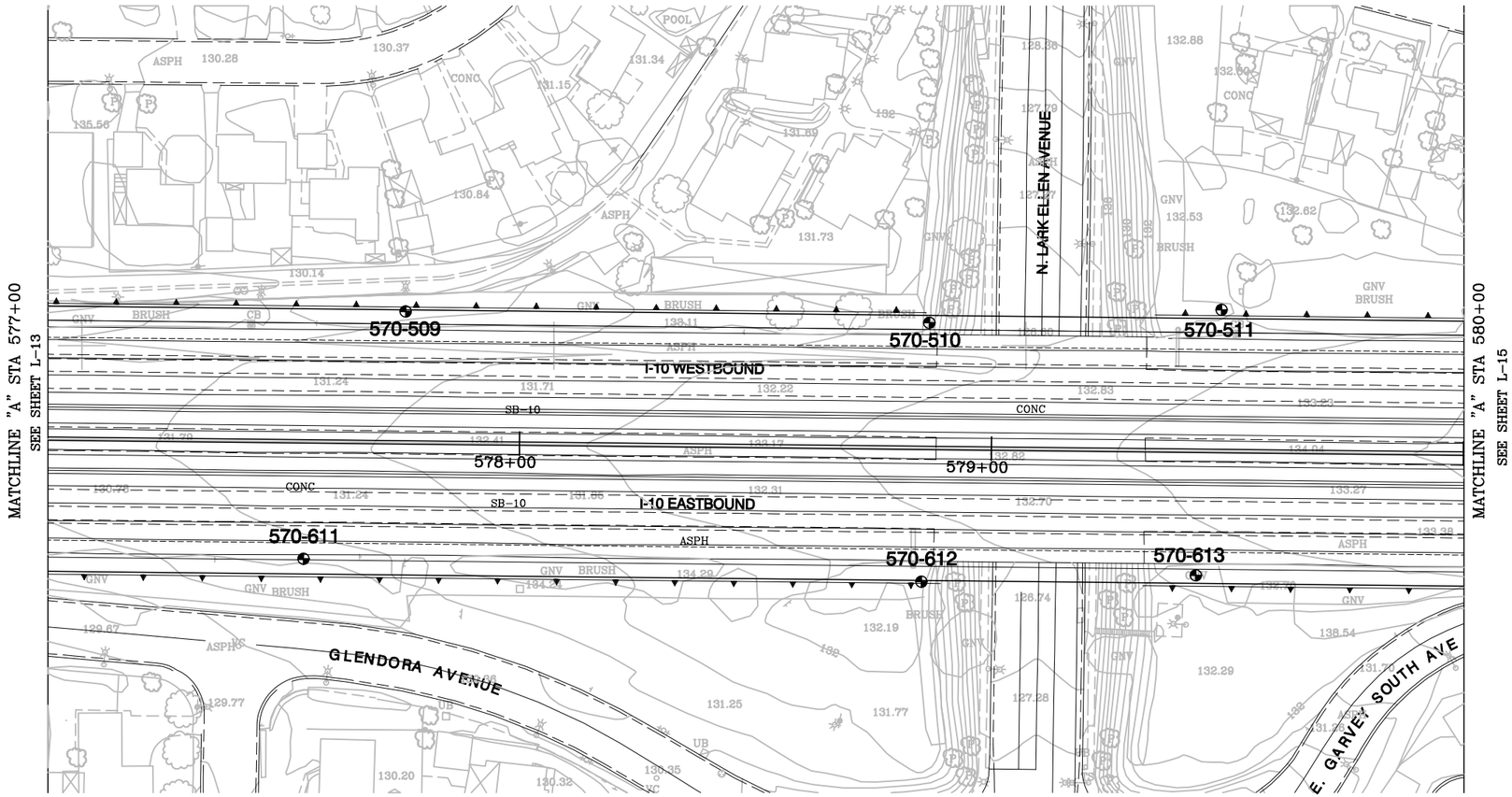
I-10 HOV WIDENING
EA 11708 (KP 53.8 to 60.3)
PUENTE AVENUE TO CITRUS AVENUE
LOS ANGELES COUNTY, CALIFORNIA

PROJECT NO.	DATE	SEGMENT 2
203939001	9/2002	L-13 OF L-20

REFERENCE: LAYOUT PLAN PROVIDED BY CALIFORNIA DEPARTMENT OF TRANSPORTATION, 4/23/02.

NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

203939-B24.DWG



LEGEND

	PROPOSED BRIDGE WIDENING OR REPLACEMENT
	PROPOSED RETAINING WALL
	PROPOSED SOUNDWALL
570-613	APPROXIMATE LOCATION OF BORING

0 10 20 30 40
APPROXIMATE SCALE IN METERS

Ninyo & Moore

BORING LOCATION MAP - LAYOUT L-14

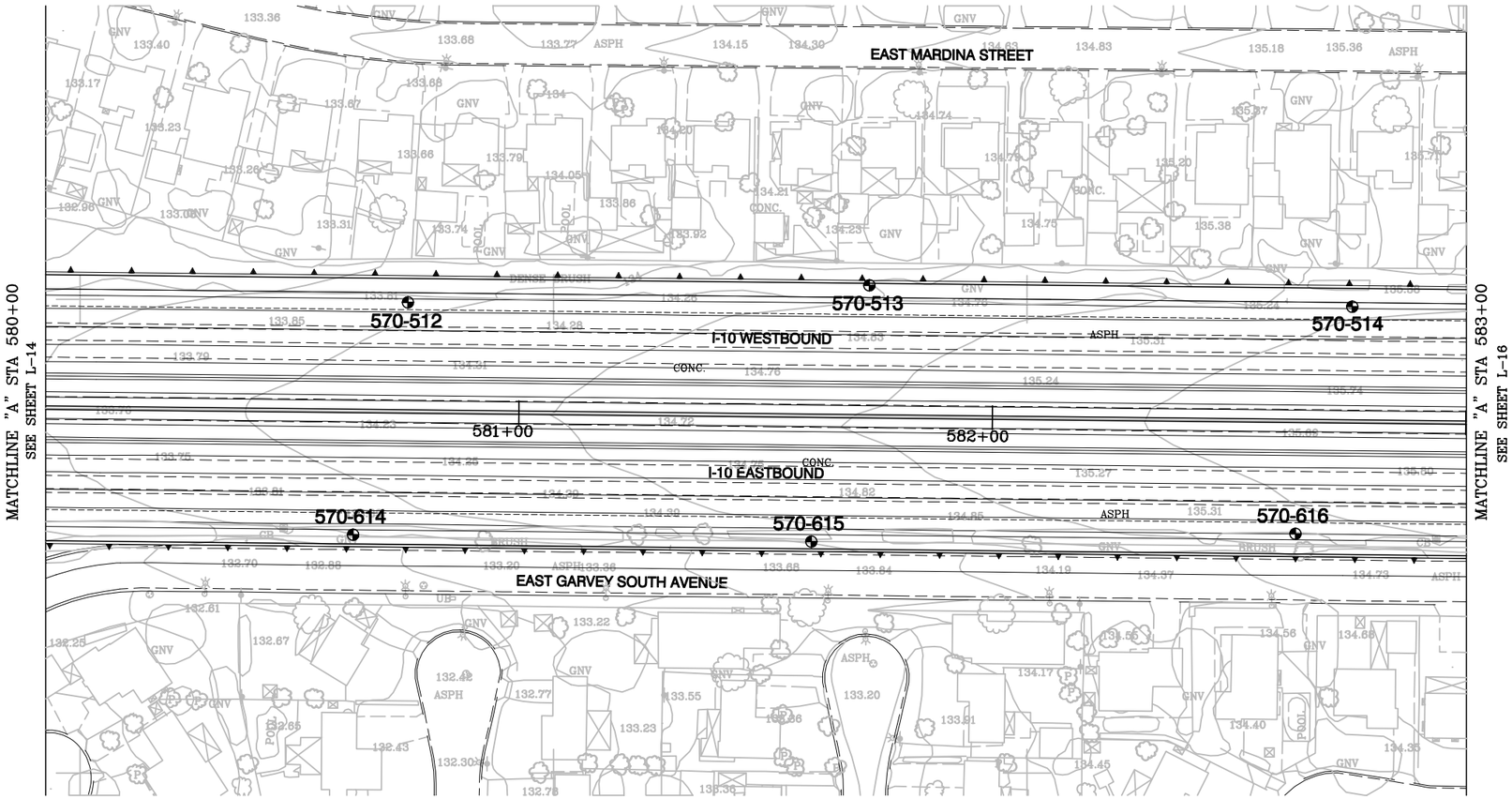
I-10 HOV WIDENING
EA 11708 (KP 53.8 to 60.3)
PUENTE AVENUE TO CITRUS AVENUE
LOS ANGELES COUNTY, CALIFORNIA

PROJECT NO.	DATE
203939001	9/2002

SEGMENT 2
L-14 OF L-20

REFERENCE: LAYOUT PLAN PROVIDED BY CALIFORNIA DEPARTMENT OF TRANSPORTATION, 4/23/02.
NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

203939-B25.DWG



LEGEND

	PROPOSED BRIDGE WIDENING OR REPLACEMENT
	PROPOSED RETAINING WALL
	PROPOSED SOUNDWALL
570-616	APPROXIMATE LOCATION OF BORING

0 10 20 30 40

APPROXIMATE SCALE IN METERS

Ninyo & Moore

BORING LOCATION MAP - LAYOUT L-15

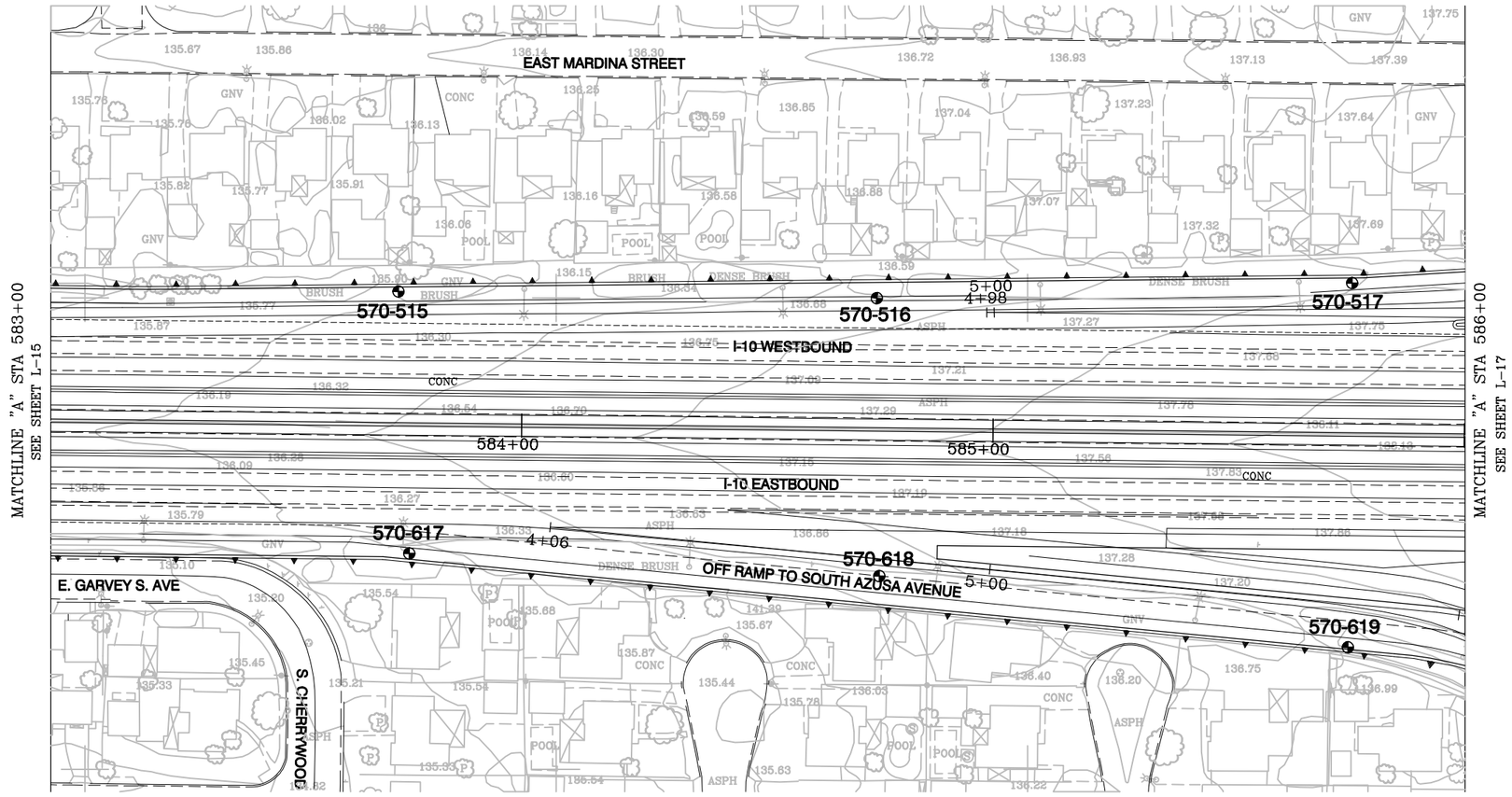
I-10 HOV WIDENING
EA 11708 (KP 53.8 to 60.3)
PUENTE AVENUE TO CITRUS AVENUE
LOS ANGELES COUNTY, CALIFORNIA

PROJECT NO.	DATE	SEGMENT 2
203939001	9/2002	L-15 OF L-20

REFERENCE: LAYOUT PLAN PROVIDED BY CALIFORNIA DEPARTMENT OF TRANSPORTATION, 4/23/02.

NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

203939-B26.DWG



LEGEND

▨	PROPOSED BRIDGE WIDENING OR REPLACEMENT
—▪—	PROPOSED RETAINING WALL
—▲—	PROPOSED SOUNDWALL
570-619	APPROXIMATE LOCATION OF BORING

N

0 10 20 30 40

APPROXIMATE SCALE IN METERS

Ninyo & Moore

BORING LOCATION MAP - LAYOUT L-16

I-10 HOV WIDENING
EA 11708 (KP 53.8 to 60.3)
PUENTE AVENUE TO CITRUS AVENUE
LOS ANGELES COUNTY, CALIFORNIA

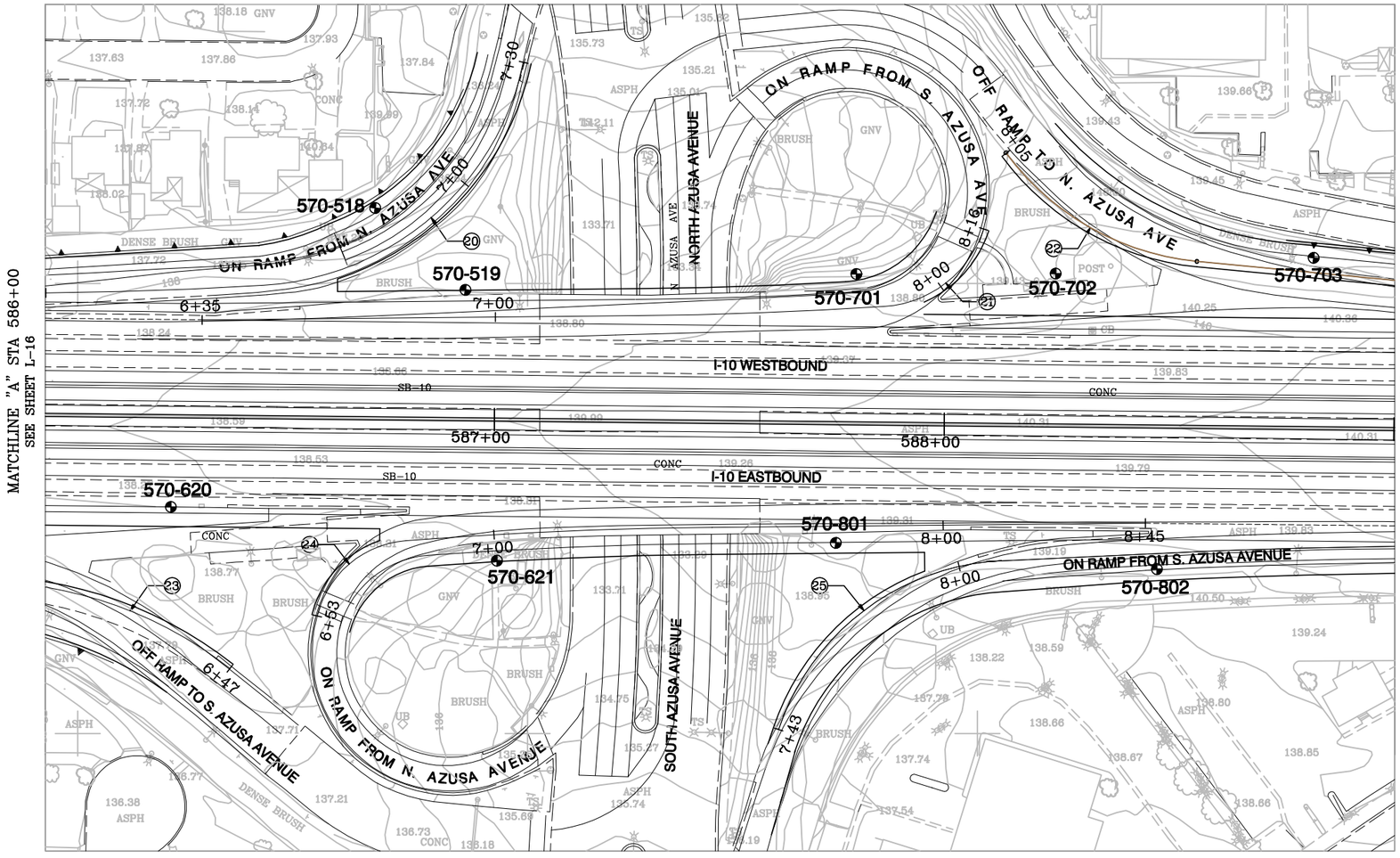
PROJECT NO.	DATE	SEGMENT 2
203939001	9/2002	L-16 OF L-20

REFERENCE: LAYOUT PLAN PROVIDED BY CALIFORNIA DEPARTMENT OF TRANSPORTATION, 4/23/02.

NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

203939-B27.DWG

CURVE NO	R (m)	Δ	L (m)	T (m)
20	63	74°21'37"	81.76	47.79
21	25	68°14'54"	29.78	16.94
22	60	48°02'35"	50.31	26.74
23	90	32°43'20"	51.40	26.42
24	22	71°49'45"	27.58	15.93
25	55	68°48'34"	66.05	37.67



LEGEND

- PROPOSED BRIDGE WIDENING OR REPLACEMENT
- PROPOSED RETAINING WALL
- PROPOSED SOUNDWALL
- 570-802 APPROXIMATE LOCATION OF BORING

0 10 20 30 40
APPROXIMATE SCALE IN METERS

Ninyo & Moore

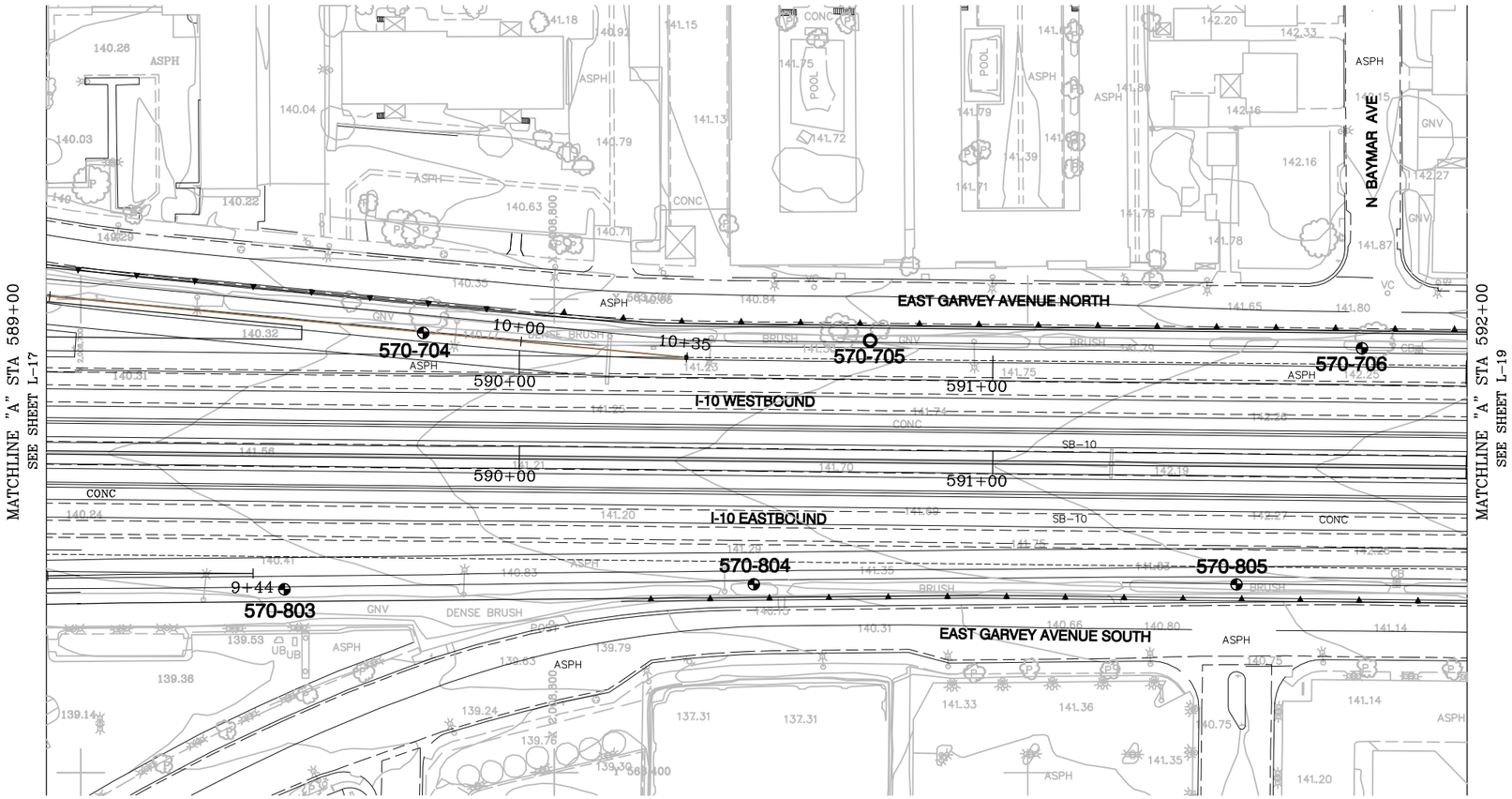
BORING LOCATION MAP - LAYOUT L-17

I-10 HOV WIDENING
EA 11708 (KP 53.8 to 60.3)
PUENTE AVENUE TO CITRUS AVENUE
LOS ANGELES COUNTY, CALIFORNIA

PROJECT NO.	DATE	SEGMENT 2
203939001	9/2002	L-17 OF L-20

REFERENCE: LAYOUT PLAN PROVIDED BY CALIFORNIA DEPARTMENT OF TRANSPORTATION, 4/23/02.
NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

203939-B28.DWG



LEGEND

▨	PROPOSED BRIDGE WIDENING OR REPLACEMENT
—▪—	PROPOSED RETAINING WALL
—▲—	PROPOSED SOUNDWALL
570-805 ◉	APPROXIMATE LOCATION OF BORING
570-705 ○	APPROXIMATE LOCATION OF ATTEMPTED BORING, IRRIGATION WATER LINE ENCOUNTERED

N

0 10 20 30 40

APPROXIMATE SCALE IN METERS

Ninyo & Moore

BORING LOCATION MAP - LAYOUT L-18

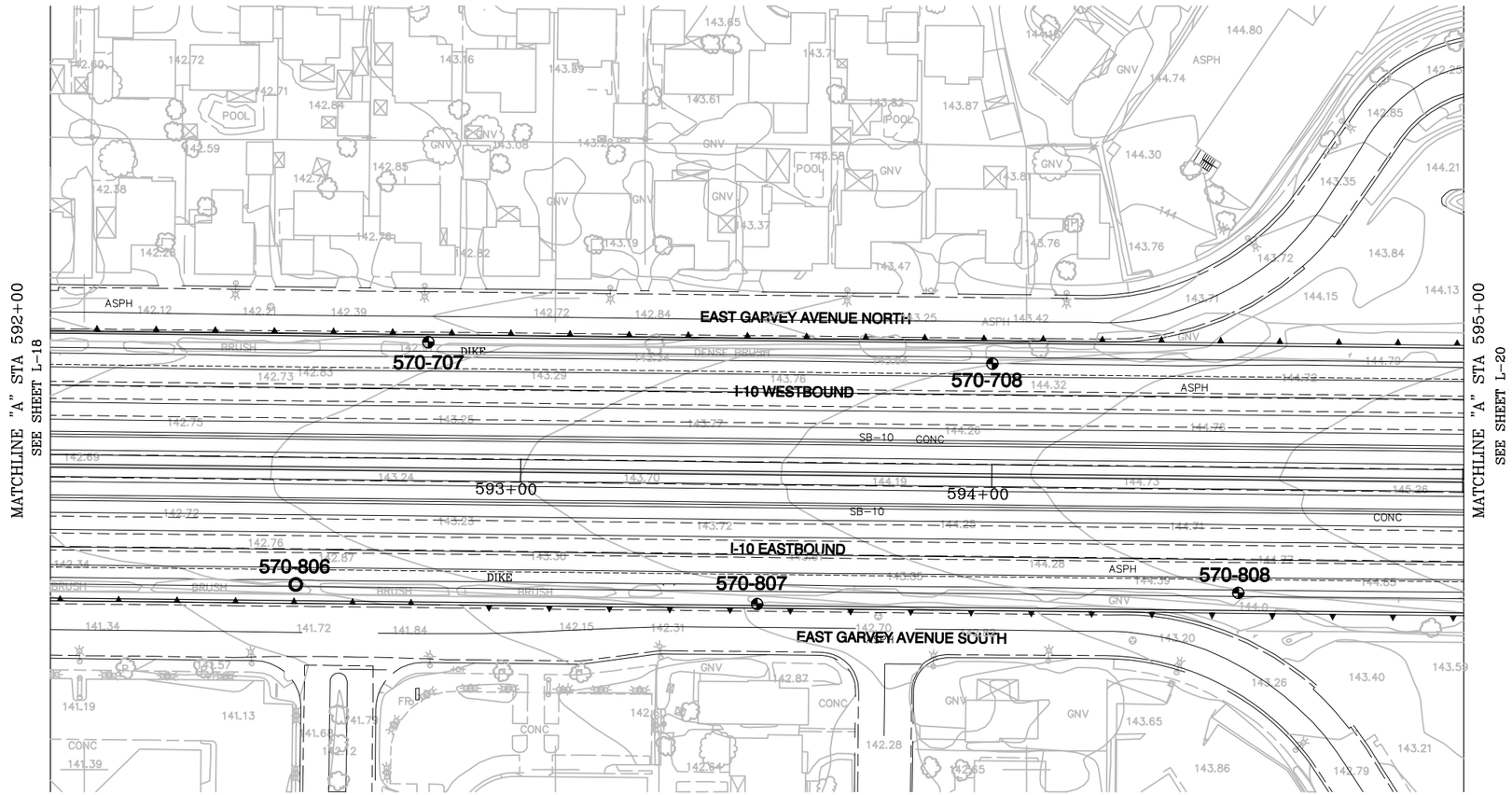
I-10 HOV WIDENING
EA 11708 (KP 53.8 to 60.3)
PUENTE AVENUE TO CITRUS AVENUE
LOS ANGELES COUNTY, CALIFORNIA

PROJECT NO.	DATE	SEGMENT 2
203939001	9/2002	L-18 OF L-20

REFERENCE: LAYOUT PLAN PROVIDED BY CALIFORNIA DEPARTMENT OF TRANSPORTATION, 4/23/02.

NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

203939-B29.DWG



LEGEND

▨	PROPOSED BRIDGE WIDENING OR REPLACEMENT
—▪—	PROPOSED RETAINING WALL
—▲—	PROPOSED SOUNDWALL
570-707 ⊕	APPROXIMATE LOCATION OF BORING
570-806 ○	APPROXIMATE LOCATION OF ATTEMPTED BORING, IRRIGATION WATER LINE ENCOUNTERED

N

0 10 20 30 40

APPROXIMATE SCALE IN METERS

REFERENCE: LAYOUT PLAN PROVIDED BY CALIFORNIA DEPARTMENT OF TRANSPORTATION, 4/23/02.

NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

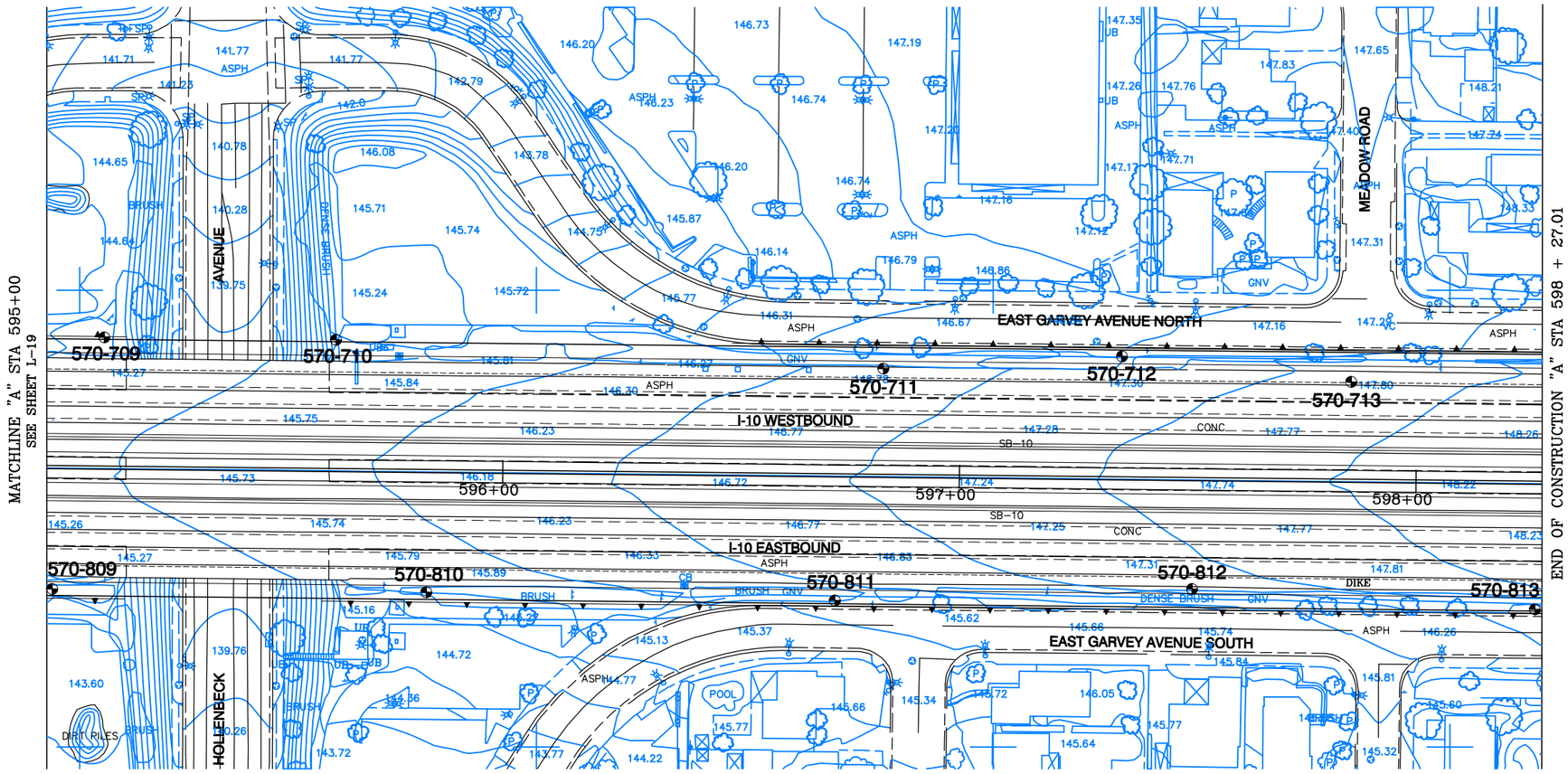
Ninyo & Moore

BORING LOCATION MAP - LAYOUT L-19

I-10 HOV WIDENING
EA 11708 (KP 53.8 to 60.3)
PUENTE AVENUE TO CITRUS AVENUE
LOS ANGELES COUNTY, CALIFORNIA

PROJECT NO.	DATE	SEGMENT 2
203939001	9/2002	L-19 OF L-20

203939-B30.DWG



LEGEND

▨	PROPOSED BRIDGE WIDENING OR REPLACEMENT
—▪—	PROPOSED RETAINING WALL
—▲—	PROPOSED SOUNDWALL
570-813 ⊕	APPROXIMATE LOCATION OF BORING

N

0 10 20 30 40

APPROXIMATE SCALE IN METERS

Ninyo & Moore

BORING LOCATION MAP - LAYOUT L-20

I-10 HOV WIDENING
EA 11708 (KP 53.8 to 60.3)
PUENTE AVENUE TO CITRUS AVENUE
LOS ANGELES COUNTY, CALIFORNIA

PROJECT NO.	DATE	SEGMENT 2
203939001	9/2002	L-20 OF L-20

REFERENCE: LAYOUT PLAN PROVIDED BY CALIFORNIA DEPARTMENT OF TRANSPORTATION, 4/23/02.

NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

203939-B31.DWG

APPENDIX A

LABORATORY REPORTS

Laboratory	Site	Consultant
Advanced Technology Laboratories	Caltrans/I-10 (605-57)/Lead Survey	Ninyo & Moore - David Shaler/Steve Reese
3275 Walnut Avenue, Signal Hill, CA 90807	TO 07-117070-PX	475 Goddard, Suite 200, Irvine, CA 92618
Tel. (562) 989-4045 Fax (562) 989-6348	Project # 203939001	Tel. (949) 753-7070 Fax (949) 753-7071

Special Instructions
See Project specifications. 5 Day TAT.

Relinquished by: (name/date/time) 7-15-02
Received by: (name/date/time) 5:10p 7-15-02
Relinquished by: (name/date/time) 7-15-02 6:40p
Received by: (name/date/time) 7/15/02 6:35pm

Lab No	Sample I.D	Date	Time	Sample container P=plastic B=brass	Analyses: Total Lead EPA Method 6010	Analyses: pH EPA Method 9045
	EB- 4			P	X	
	570- 108-0	7-15-02	12:20	B	X	X
	570- 108-0.3		12:22		X	
	570- 108-0.6		12:24		X	
	570- 108-0.9		12:26		X	
	570- 108-1.5		12:30		X	
	570- 109-0		13:18		X	
	570- 109-0.3		13:20		X	
	570- 109-0.6		13:23		X	
	570- 109-0.9		13:27		X	
	570- 109-1.5		13:32		X	
	570- 107-0		13:48		X	X
	570- 107-0.3		13:49		X	
	570- 107-0.6		13:53		X	
	570- 107-0.9		13:55		X	
	570- 107-1.5		13:59		X	
	570- 106-0		14:18		X	
	570- 106-0.3		14:19		X	
	570- 106-0.6		14:22		X	
	570- 106-0.9		14:25		X	
	570- 106-1.5		14:28		X	
	570- 105-0		14:32		X	X
	570- 105-0.3		14:33		X	
	570- 105-0.6		14:58		X	
	570- 104-0		15:10		X	
	570- 104-0.3		15:12		X	
	570- 104-0.6		15:14		X	
	570- 104-0.9		15:16		X	
	570- 104-1.5		15:19		X	
	570- 103-0		15:21		X	
	570- 103-0.3		15:23		X	
	570- 103-0.6		15:29		X	X
	570- 103-0.9		15:31		X	
	570- 103-1.5		15:36		X	
	570- 102-0		15:40		X	
	570- 102-0.3		15:42		X	
	570- 102-0.6		15:46		X	
	570- 102-0.9		15:48		X	
	570- 102-1.5		15:55		X	
	570- 101-0		16:00		X	
	570- 101-0.3		16:02		X	
	570- 101-0.6		16:04		X	X
	570- 101-0.9		16:06		X	
	570- 101-1.5		16:10		X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	

Total # of samples: 44

Please See Tab 7

Laboratory	Site	Consultant
Advanced Technology Laboratories	Caltrans/I-10 (605-57)/Lead Survey	Ninyo & Moore - David Shaler/Steve Reese
3275 Walnut Avenue, Signal Hill, CA 90807	TO 07-117070-PX	475 Goddard, Suite 200, Irvine, CA 92618
Tel. (562) 989-4045 Fax (562) 989-6348	Project # 203939001	Tel. (949) 753-7070 Fax (949) 753-7071

Special Instructions
See Project specifications. 5 Day TAT.

Relinquished by: (name/date/time) [signature] 7-15-02	Received by: (name/date/time) [signature] 07-15-02
Relinquished by: (name/date/time) [signature] 7-15-02 6:40p	Received by: (name/date/time) [signature] 7/15/02 6:35pm

Lab No	Sample I.D	Date	Time	Sample container P=plastic B=brass	Analyses: Total Lead EPA Method 6010	Analyses: pH EPA Method 9045
	EB-3	7/15/02	~~11:05~~ RC	B	X	
	570-118-0.0		~~11:15~~ RC 11:05	B	X	
	570-118-0.3		~~11:30~~ 11:15	B	X	
	570-118-0.6		RC 11:30	B	X	
	570-118-0.9		11:45	B	X	
	570-117-0.0		12:02	B	X	
	570-117-0.3		12:07	B	X	
	570-117-0.6		12:30	B	X	
	570-116-0.0		12:36	B	X	X
	570-115-0.0		13:25	P	X	
	570-115-0.3		13:30	P	X	
	570-115-0.6		13:35	P	X	
	570-114-0.0		13:50	P	X	
	570-114-0.3		14:00	P	X	
	570-114-0.6		14:05	P	X	
	570-114-0.9		14:10	P	X	
	570-114-1.0		14:13	P	X	
	570-113-0.0		14:20	P	X	
	570-113-0.3		14:25	P	X	X
	570-113-0.6		14:35	P	X	
	570-112-0.0		14:50	P	X	
	570-112-0.3		14:55	P	X	
	570-112-0.6		15:00	P	X	
	570-112-0.9		15:03	P	X	
	570-112-1.5		15:12	P	X	
	570-111-0.0		15:20	P	X	
	570-111-0.3		15:35 RC	P	X	
	570-111-0.6		15:40	P	X	
	570-				X	~~X~~
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
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	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	

Total # of samples: 28

PLEASE SEE TAB 2

Laboratory	Site	Consultant
Advanced Technology Laboratories 3275 Walnut Avenue, Signal Hill, CA 90807 Tel. (562) 989-4045 Fax (562) 989-6348	Caltrans/I-10 (605-57)/Lead Survey TO 07-117070-PX Project # 203939001	Ninyo & Moore - David Shaler/Steve Reese 475 Goddard, Suite 200, Irvine, CA 92618 Tel. (949) 753-7070 Fax (949) 753-7071

Special Instructions
See Project specifications. 5 Day TAT.

Relinquished by: (name/date/time) 7-18-02 — Received by: (name/date/time) 7-18-02 4:00p

Relinquished by: (name/date/time) 7-18-02 7:05p — Received by: (name/date/time) 7-18-02 7:16pm

Lab No	Sample I.D	Date	Time	Sample container P=plastic B=brass	Analyses: Total Lead EPA Method 6010	Analyses: pH EPA Method 9045
	EB-19	7/18/02	3:35	P	X	
	57D-713-0		8:45		X	X
	57D-713-0.3		8:46		X	
	57D-713-0.6		8:47		X	
	57D-713-0.9		8:48		X	
	57D-713-1.5		8:50		X	
	57D-712-0		8:56		X	
	57D-712-0.3		8:57		X	
	57D-712-0.6		8:59		X	
	57D-712-0.9		9:01		X	
	57D-712-1.5		9:03		X	
	57D-711-0		9:10		X	X
	57D-711-0.3		9:12		X	
	57D-711-0.6		9:13		X	
	57D-711-0.9		9:15		X	
	57D-711-1.5		9:17		X	
	57D-710-0		9:29		X	
	57D-710-0.3		9:31		X	
	57D-710-0.6		9:32		X	
	57D-710-0.9		9:34		X	
	57D-710-1.5		9:36		X	
	57D-709-0		9:45		X	X
	57D-709-0.3		9:47		X	
	57D-709-0.6		9:50		X	
	57D-709-0.9		9:52		X	
	57D-709-1.5		9:55		X	
	57D-708-0		9:59		X	
	57D-708-0.3		10:00		X	
	57D-708-0.6		10:01		X	
	57D-708-0.9		10:02		X	
	57D-708-1.5		10:04		X	
	57D-707-0		10:10		X	X
	57D-707-0.3		10:12		X	
	57D-707-0.6		10:13		X	
	57D-707-0.9		10:15		X	
	57D-701-0		11:47	B	X	
	57D-701-0.3		11:51		X	
	57D-701-0.6		11:54		X	
	57D-701-0.9		11:57		X	
	57D-701-1.5		12:01		X	
	57D-703-0		8:56		X	
	57D-703-0.3		8:58		X	X
	57D-70[illegible]-[illegible]0		8:48		X	
	57D-70[illegible]-[illegible]0.3		8:50		X	
	57D-519-0		10:35	P	X	
	57D-519-0.3		10:36		X	
	57D-519-0.6		10:35		X	
	57D-519-0.9		10:40		X	
	57D-519-1.5		10:45		X	
	57D-702-0		10:45		X	
	57D-702-0.3		10:45		X	
	57D-702-0.6		10:45		X	
	57D-702-0.9		10:20		X	
	57D-702-1.5		10:20		X	
	57D-706-0		9:15		X	
	57D-706-0.3		9:15		X	X
	57D-706-0.6		9:15		X	
	57D-706-0.9		9:15		X	
	57D-706-1.5		9:20		X	
	57D-					

Total # of samples: 59

Please See Tab 3

Laboratory	Site	Consultant
Advanced Technology Laboratories 3275 Walnut Avenue, Signal Hill, CA 90807 Tel. (562) 989-4045 Fax (562) 989-6348	Caltrans/I-10 (605-57)/Lead Survey TO 07-117070-PX Project # 203939001	Ninyo & Moore - David Shaler/Steve Reese 475 Goddard, Suite 200, Irvine, CA 92618 Tel. (949) 753-7070 Fax (949) 753-7071

Special Instructions
See Project specifications. 5 Day TAT. Fax COC to Steve Reise

Relinquished by: (name/date/time) 7-15-02 — Received by: (name/date/time) 5:10 P 7-15-02

Relinquished by: (name/date/time) 7-15-02 6:40p — Received by: (name/date/time) 7/15/02 6:35 pm

Lab No	Sample I.D	Date	Time	Sample container P=plastic B=brass	Analyses: Total Lead EPA Method 6010	Analyses: pH EPA Method 9045
	EB-1	7/15/02	~~[illegible]~~ 3:30	AB P	X	
	570-201-0		11:20	B	X	X
	570-201-0.3		11:24		X	
	570-201-0.6		11:29		X	
	570-201-0.9		11:33		X	
	570-201-1.5		11:39		X	
	570-202-0		11:40		X	
	570-202-0.3		11:40		X	
	570-202-0.6		11:45		X	
	570-202-0.9		11:48		X	
	570-202-1.5		12:00		X	X
	570-203-0		12:10		X	
	570-203-0.3		12:12		X	
	570-203-0.6		12:15		X	
	570-204-0		12:08		X	
	570-204-0.3		12:15		X	
	570-205-0		12:25		X	
	570-205-0.3		12:30		X	
	570-205-0.6		12:35		X	
	570-205-0.9		12:40		X	
	570-206-0		1:20		X	X
	570-206-0.3		1:23		X	
	570-206-0.6		1:25		X	
	570-206-0.9		1:27		X	
	570-206-1.5		1:30		X	
	570-207-0		13:33		X	
	570-207-0.3		13:38		X	
	570-207-0.6		13:42		X	
	570-208-0		13:48		X	
	570-208-0.3		13:51		X	
	570-208-0.6		13:55		X	X
	570-209-0		1:50		X	
	570-209-0.3		1:53		X	
	570-209-0.6		1:56		X	
	570-209-0.9		1:58		X	
	570-210-0		14:12		X	
	570-210-0.3		14:17		X	
	570-210-0.6		14:20		X	
	570-211-0		2:20		X	
	570-211-0.3		2:23		X	
	570-211-0.6		2:27		X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	

Total # of samples: 41

Please See Tab 4

Laboratory	Site	Consultant
Advanced Technology Laboratories 3275 Walnut Avenue, Signal Hill, CA 90807 Tel. (562) 989-4045 Fax (562) 989-6348	Caltrans/I-10 (605-57)/Lead Survey TO 07-117070-PX Project # 203939001	Ninyo & Moore - David Shaler/Steve Reese 475 Goddard, Suite 200, Irvine, CA 92618 Tel. (949) 753-7070 Fax (949) 753-7071

Special Instructions
See Project specifications. 5 Day TAT. Fax COC to Steve Reese

Relinquished by: (name/date/time) [signature] 7-15-02	Received by: (name/date/time) [signature] 5:10p 7-15-02
Relinquished by: (name/date/time) [signature] 7-15-02 6:40	Received by: (name/date/time) [signature] 7/15/02 6:35pm

Lab No	Sample I.D	Date	Time	Sample container P=plastic B=brass	Analyses: Total Lead EPA Method 6010	Analyses: pH EPA Method 9045
	~~EB-2~~	~~7/15/02~~	~~3:35pm~~	~~P~~	~~X~~	
	570-212-0.0	7/15/02	1:00pm	B	X	X
	570-212-0.3	↓	1:10pm	↓	X	
	570-212-0.6	↓	1:30pm	↓	X	
	570-213-0.0	↓	1:10pm	↓	X	
	570-214-0.0	↓	1:55pm	↓	X	
	570-214-0.3	↓	2:05pm	↓	X	
	570-215-0.0	↓	1:52pm	↓	X	
	570-219-0.0	↓	2:45pm	↓	X	
	570-219-0.3	↓	1:50pm	↓	X	
	570-217-0.6	↓	2:55pm	↓	X	
	570-217-0.0	↓	3:00pm	↓	X	
	570-221-0.0	↓	2:45PM	↓	X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	

SR

Total # of samples: 13

Please See Tab 5

Laboratory	Site	Consultant
Advanced Technology Laboratories 3275 Walnut Avenue, Signal Hill, CA 90807 Tel. (562) 989-4045 Fax (562) 989-6348	Caltrans/I-10 (605-57)/Lead Survey TO 07-117070-PX Project # 203939001	Ninyo & Moore - David Shaler/Steve Reese 475 Goddard, Suite 200, Irvine, CA 92618 Tel. (949) 753-7070 Fax (949) 753-7071

Special Instructions
See Project specifications. 5 Day TAT.

Relinquished by: (name/date/time) 7/16/02 4:10 — Received by: (name/date/time) 7-16-02 4:10P

Relinquished by: (name/date/time) 7-16-02 8:00a — Received by: (name/date/time) 7/16/02 8:00pm

Lab No	Sample I.D	Date	Time	Sample container P=plastic B=brass	Analyses: Total Lead EPA Method 6010	Analyses: pH EPA Method 9045
	EB-9	7/16/02	4:10	P	X	
	570-120-0		2:55	B	X	X
	570-120-0.3		2:55		X	
	570-120-0.6		2:55		X	
	570-120-0.9		3:00		X	
	570-120-1.5		3:00		X	
	570-121-0		3:10		X	
	570-121-0.3		3:10		X	
	570-121-0.6		3:10		X	
	570-121-0.9		3:10		X	
	570-121-1.5		3:20		X	
	570-122-0		2:35		X	X
	570-122-0.3		2:35		X	
	570-122-0.6		2:35		X	
	570-122-0.9		2:40		X	
	570-122-1.5		2:40		X	
	570-216-0		9:15		X	
	570-216-0.3		9:15		X	
	570-218-0		9:30		X	
	570-218-0.3		9:30		X	
	570-218-0.6		9:30		X	
	570-218-0.9		9:35		X	
	570-218-1.5		9:40		X	X
	570-220-0		9:50		X	
	570-220-0.3		9:50		X	
	570-220-0.6		9:50		X	
	570-220-0.9		9:55		X	
	570-220-1.5		10:00		X	
	570-222-0		10:10		X	
	570-222-0.3		10:10		X	
	570-222-0.6		10:20		X	
	570-222-0.9		10:20		X	
	570-222-1.5		10:25		X	X
	570-302-0		1:30		X	
	570-302-0.3		1:30		X	
	570-302-0.6		1:30		X	
	570-302-0.9		1:30		X	
	570-302-1.5		1:35		X	
	570-303-0		1:10		X	
	570-303-0.3		1:10		X	
	570-303-0.6		1:10		X	
	570-303-0.9		1:15		X	
	570-303-1.5		1:20		X	
	570-304-0		12:40		X	X
	570-304-0.3		12:40		X	
	570-304-0.6		12:50		X	
	570-304-0.9		12:50		X	
	570-304-1.5		12:55		X	
	570-305-0		12:25		X	
	570-305-0.3		12:25		X	
	570-305-0.6		12:25		X	
	570-305-0.9		12:30		X	
	570-305-1.5		12:30		X	
	570-306-0		12:05		X	
	570-306-0.3		12:05		X	
	570-306-0.6		12:10		X	X
	570-306-0.9		12:10		X	
	570-306-1.5		12:15		X	
	~~570~~ EB-2	7/15/02	3:35PM	P	X	
	~~570~~				X	

Total # of samples: 59

Please See Tab 9

Laboratory	Site	Consultant
Advanced Technology Laboratories 3275 Walnut Avenue, Signal Hill, CA 90807 Tel. (562) 989-4045 Fax (562) 989-6348	Caltrans/I-10 (605-57)/Lead Survey TO 07-117070-PX Project # 203939001	Ninyo & Moore - David Shaler/Steve Reese 475 Goddard, Suite 200, Irvine, CA 92618 Tel. (949) 753-7070 Fax (949) 753-7071

Special Instructions
See Project specifications. 5 Day TAT.

Relinquished by: (name/date/time) [signature] 7-16-02 | Received by: (name/date/time) [signature] 7-16-02 4:10p

Relinquished by: (name/date/time) [signature] 7-16-02 8:00p | Received by: (name/date/time) [signature] 7/16/02 5:00pm

Lab No	Sample I.D	Date	Time	Sample container P=plastic B=brass	Analyses: Total Lead EPA Method 6010	Analyses: pH EPA Method 9045
	EB- 8	7/16/02	4:00pm	P	X	
	570- 501-0	7/16/02	9:33	B	X	X
	570- 501-0-3	↓	9:56	↓	X	
	570- 502-0		9:12		X	
	570- 502-0-3		9:26		X	
	570- 408-0		10:20		X	
	570- 408-0-3		10:23		X	
	570- 408-0.6		10:27		X	
	570- 408-0.9		10:34		X	
	570- 408-1.5		10:42		X	
	570- 409-0		10:45		X	
	570- 409-0.3		10:57		X	
	570- 601-0		11:10		X	X
	570- 601-0.3		11:13		X	
	570- 601-0.6		11:17		X	
	570- 601-0.9		11:22		X	
	570- 602-0		11:11		X	
	570- 602-0.3		11:19		X	
	570- 602-0.6		11:28		X	
	570- 602-0.9		11:34		X	
	570- 603-0		11:45		X	
	570- 603-0.3		11:52		X	
	570- 603-0.6		11:56		X	X
	570- 223-0.0		1:25pm		X	
	570- 223-0.3		1:31pm		X	
	570- 224-0		1:25pm		X	
	570- 224-0.3		1:31pm		X	
	570- 224-0.6		1:40pm		X	
	570- 225-0		1:38pm		X	
	570- 225-0.3	↓	1:45pm	↓	X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	

Total # of samples: 30

Please See Tab 7

Laboratory	Site	Consultant
Advanced Technology Laboratories	Caltrans/I-10 (605-57)/Lead Survey	Ninyo & Moore - David Shaler/Steve Reese
3275 Walnut Avenue, Signal Hill, CA 90807	TO 07-117070-PX	475 Goddard, Suite 200, Irvine, CA 92618
Tel. (562) 989-4045 Fax (562) 989-6348	Project # 203939001	Tel. (949) 753-7070 Fax (949) 753-7071

Special Instructions
See Project specifications. 5 Day TAT.

Relinquished by: (name/date/time) 7-16-02
Received by: (name/date/time) 7-16-02 4:10
Relinquished by: (name/date/time) 7-16-02 8:00
Received by: (name/date/time) 7/16/02 8:00pm

Lab No	Sample I.D	Date	Time	Sample container P=plastic B=brass	Analyses: Total Lead EPA Method 6010	Analyses: pH EPA Method 9045
	EB-5	7/16/02	3:23	P	X	
	570-227-0		9:10	B	X	X
	570-227-0.3		9:14		X	
	570-401-0		9:25		X	
	570-401-0.3		9:30		X	
	570-401-0.6		9:36		X	
	570-401-0.9		9:39		X	
	570-401-1.5		9:42		X	
	570-617-0		10:25		X	
	570-617-0.3		10:30		X	
	570-617-0.6		10:35		X	
	570-618-0		10:37		X	
	570-618-0.3		10:40		X	X
	570-618-0.6		10:42		X	
	570-618-0.9		10:45		X	
	570-618-1.5		10:48		X	
	570-619-0		10:53		X	
	570-619-0.3		10:54		X	
	570-619-0.6		10:59		X	
	570-619-0.9		11:03		X	
	570-619-1.5		11:06		X	
	570-620-0		10:58		X	
	570-620-0.3		11:00		X	
	570-621-0		11:25		X	X
	570-621-0.3		11:29		X	
	570-621-0.6		11:31		X	
	570-801-0		11:26		X	
	570-801-0.3		11:29		X	
	570-801-0.6		11:33		X	
	570-801-0.9		11:37		X	
	570-801-1.5		11:46		X	
	570-802-0		11:56		X	
	570-802-0.3		11:59		X	
	570-802-0.6		12:02		X	
	570-802-0.9		12:06		X	X
	570-613-0.6		14:34		X	
	570-613-0.9		14:26		X	
	570-614-0		14:35		X	
	570-614-0.3		14:37		X	
	570-614-0.6		14:39		X	
	570-614-0.9		14:40		X	
	570-614-1.5		14:44		X	
	570-615-0		14:55		X	
	570-615-0.3		14:57		X	
	570-615-0.6		14:58		X	X
	570-615-0.9		15:00		X	
	570-615-1.5		15:01		X	
	570-616-0		15:07		X	
	570-616-0.3		15:08		X	
	570-616-0.6		15:15		X	
	570-616-0.9		15:18		X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	

Total # of samples: 31

Please see Tab 8

Laboratory	Site	Consultant
Advanced Technology Laboratories	Caltrans/I-10 (605-57)/Lead Survey	Ninyo & Moore - David Shaler/Steve Reese
3275 Walnut Avenue, Signal Hill, CA 90807	TO 07-117070-PX	475 Goddard, Suite 200, Irvine, CA 92618
Tel. (562) 989-4045 Fax (562) 989-6348	Project # 203939001	Tel. (949) 753-7070 Fax (949) 753-7071

Special Instructions
See Project specifications. 5 Day TAT

Relinquished by: (name/date/time) 7-16-02 — Received by: (name/date/time) 7-16-02 4:00p

Relinquished by: (name/date/time) 7-16-02 8:00p — Received by: (name/date/time) 7/16/02 8:00pm

Lab No	Sample I.D	Date	Time	Sample container P=plastic B=brass	Analyses: Total Lead EPA Method 6010	Analyses: pH EPA Method 9045
	EB-7	7-16-02	15:30	P	X	
	570-110-0	7-16-02	8:45	B	X	X
	570-110-0.3		8:47		X	
	570-110-0.6		8:50		X	
	570-110-0.9		8:53		X	
	570-316-0		9:30		X	
	570-316-0.3		9:33		X	
	570-316-0.6		9:35		X	
	570-316-0.9		9:36		X	
	570-316-1.5		9:38		X	
	570-315-0		9:40		X	
	570-315-0.3		9:41		X	X
	570-315-0.6		9:42		X	
	570-315-0.9		9:44		X	
	570-315-1.5		9:48		X	
	570-314-0		9:55		X	
	570-314-0.3		9:57		X	
	570-314-0.6		9:59		X	
	570-314-0.9		10:01		X	
	570-314-1.5		10:03		X	
	570-313-0		10:09		X	
	570-313-0.3		10:10		X	X
	570-313-0.6		10:12		X	
	570-313-0.9		10:14		X	
	570-313-1.5		10:16		X	
	570-312-0		10:20		X	
	570-312-0.3		10:22		X	
	570-312-0.6		10:24		X	
	570-312-0.9		10:26		X	
	570-312-1.5		10:28		X	
	570-311-0		10:44		X	
	570-311-0.3		10:45		X	
	570-311-0.6		10:48		X	X
	570-311-0.9		10:52		X	
	570-311-1.5		10:57		X	
	570-309-0		12:16		X	
	570-309-0.3		12:18		X	
	570-308-0		12:31		X	
	570-308-0.3		12:33		X	
	570-308-0.6		12:36		X	
	570-308-0.9		12:39		X	
	570-308-1.5		12:41		X	
	570-307-0		12:57		X	
	570-307-0.3		12:59		X	X
	570-307-0.6		13:00		X	
	570-307-0.9		13:02		X	
	570-307-1.5		13:04		X	
	570-610-0		13:35		X	
	570-610-0.3		13:38		X	
	570-610-0.6		13:40		X	
	570-610-0.9		13:42		X	
	570-611-0		13:50		X	
	570-611-0.3		13:53		X	
	570-612-0		14:05		X	
	570-612-0.3		14:07		X	X
	570-612-0.6		14:09		X	
	570-612-0.9		14:10		X	
	570-612-1.5		14:12		X	
	570-613-0		14:20		X	
	570-613-0.3		14:22		X	

Total # of samples: 60

Please see Lab Q

Laboratory	Site	Consultant
Advanced Technology Laboratories	Caltrans/I-10 (605-57)/Lead Survey	Ninyo & Moore - David Shaler/Steve Reese
3275 Walnut Avenue, Signal Hill, CA 90807	TO 07-117070-PX	475 Goddard, Suite 200, Irvine, CA 92618
Tel. (562) 989-4045 Fax (562) 989-6348	Project # 203939001	Tel. (949) 753-7070 Fax (949) 753-7071

Special Instructions
See Project specifications. 5 Day TAT.

Relinquished by: (name/date/time) 7-17-02 Received by: (name/date/time) 7/17/02

Relinquished by: (name/date/time) 7/11/02 1725 Received by: (name/date/time) 7/12/02 17:25

Lab No	Sample I.D	Date	Time	Sample container P=plastic B=brass	Analyses: Total Lead EPA Method 6010	Analyses: pH EPA Method 9045
	EB- 14	7/17/02	15:51	P	X	
	570- 518-0		8:55	B	X	X
	570- 518-0.3		8:56		X	
	570- 518-0.6		8:58		X	
	570- 518-0.9		8:59		X	
	570- 518-1.5		9:04		X	
	570- 517-0		9:09		X	
	570- 517-0.3		9:11		X	
	570- 517-0.6		9:13		X	
	570- 517-0.9		19:15		X	
	570- 517-1.5		9:16		X	
	570- 516-0		9:20		X	X
	570- 516-0.3		9:22		X	
	570- 516-0.6		9:24		X	
	570- 516-0.9		9:25		X	
	570- 516-1.5		9:27		X	
	570- 515-0		9:33		X	
	570- 515-0.3		9:35		X	
	570- 515-0.6		9:37		X	
	570- 515-0.9		9:39		X	
	570- 515-1.5		9:41		X	X
	570- 514-0		9:45		X	
	570- 514-0.3		9:48		X	
	570- 514-0.6		9:50		X	
	570- 514-0.9		9:52		X	
	570- 514-1.5		9:54		X	
	570- 513-0		9:57		X	
	570- 513-0.3		9:59		X	
	570- 513-0.6		10:01		X	
	570- 513-0.9		10:02		X	
	570- 513-1.5		10:03		X	X
	570- 512-0		10:10		X	
	570- 512-0.3		10:12		X	
	570- 512-0.6		10:14		X	
	570- 512-0.9		10:15		X	
	570- 512-1.5		10:17		X	
	570- 511-0		10:20		X	
	570- 511-0.3		10:22		X	
	570- 511-0.6		10:24		X	
	570- 511-0.9		10:25		X	
	570- 511-1.5		10:28		X	X
	570- 510-0		10:40		X	
	570- 510-0.3		10:41		X	
	570- 510-0.6		10:43		X	
	570- 510-0.9		10:45		X	
	570- 510-1.5		10:48		X	
	570- 507-0		10:55		X	
	570- 507-0.3		10:57		X	
	570- 507-0.6		10:59		X	
	570- 507-0.9		11:01		X	
	570- 507-1.5		11:04		X	X
	570- 803-0		11:44		X	
	570- 803-0.3		11:45		X	
	570- 803-0.6		11:46		X	
	570- 803-0.9		11:49		X	
	570- 803-1.5		11:52		X	
	570- 804-0		12:00		X	
	570- 804-0.3		12:01		X	
	570- 804-0.6		12:02		X	
	570- 804-0.9		12:04		X	

Total # of samples: 60

Please See Tab 10

Laboratory	Site	Consultant
Advanced Technology Laboratories 3275 Walnut Avenue, Signal Hill, CA 90807 Tel. (562) 989-4045 Fax (562) 989-6348	Caltrans/I-10 (605-57)/Lead Survey TO 07-117070-PX Project # 203939001	Ninyo & Moore - David Shaler/Steve Reese 475 Goddard, Suite 200, Irvine, CA 92618 Tel. (949) 753-7070 Fax (949) 753-7071

Special Instructions

See Project specifications. 5 Day TAT.

Relinquished by: (name/date/time) [illegible] 7-17-02 — Received by: (name/date/time) [illegible] 7/17/02

Relinquished by: (name/date/time) [illegible] 7/17/02 1725 — Received by: (name/date/time) [illegible] 7/17/02 17:25

Lab No	Sample I.D	Date	Time	Sample container P=plastic B=brass	Total Lead EPA Method 6010	pH EPA Method 9045
	EB- 15	7/17/02	16:00 ~~12:05~~	P	X	
	5710-804-1.5	↓	12:05	↓	X	X
	5710-805-0		12:12		X	
	5710-805-0.3		12:14		X	
	5710-805-0.6		12:15		X	
	5710-805-0.9		12:18		X	
	5710-807-0		12:57		X	
	5710-807-0.3		12:58		X	
	5710-807-0.6		13:00		X	
	5710-807-0.9		13:02		X	
	5710-808-0		13:18		X	
	5710-808-0.3		13:20		X	X
	5710-808-0.6		13:22		X	
	5710-808-0.9		13:24		X	
	5710-809-0		13:35		X	
	5710-809-0.3		13:38		X	
	5710-809-0.6		13:39		X	
	5710-809-0.9		13:41		X	
	5710-810-0		13:46		X	
	5710-810-0.3		13:48		X	
	5710-810-0.6		13:50		X	
	5710-810-0.9		13:51		X	
	5710-810-1.5		13:53		X	X
	5710-811-0		13:59		X	
	5710-811-0.3		14:02		X	
	5710-811-0.6		14:04		X	
	5710-811-0.9		14:05		X	
	5710-811-1.5	↓	14:08	↓	X	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	571-				X	

Total # of samples: 28

Please See Tab 11

Laboratory	Site	Consultant
Advanced Technology Laboratories 3275 Walnut Avenue, Signal Hill, CA 90807 Tel. (562) 989-4045 Fax (562) 989-6348	Caltrans/I-10 (605-57)/Lead Survey TO 07-117070-PX Project # 203939001	Ninyo & Moore - David Shaler/Steve Reese 475 Goddard, Suite 200, Irvine, CA 92618 Tel. (949) 753-7070 Fax (949) 753-7071

Special Instructions
See Project specifications. 5 Day TAT.

Relinquished by: (name/date/time) 7-17-02
Received by: (name/date/time) 7/17/02
Relinquished by: (name/date/time) 7/17/02 1725
Received by: (name/date/time) 7/17/02 1725

Lab No	Sample I.D	Date	Time	Sample container P=plastic B=brass	Analyses: Total Lead EPA Method 6010	Analyses: pH EPA Method 9045
	EB-12	7/17/02	RC 8:55	P	X	
	570-509-0.0		RC 9:00	B	X	X
	570-509-0.3		RC 9:05		X	
	570-509-0.6		9:05		X	
	570-509-0.9		9:10		X	
	570-509-1.5		9:15		X	
	570-508-0.0		9:20		X	
	570-508-0.3		9:25		X	
	570-508-0.6		9:30		X	
	570-508-0.9		9:35		X	
	570-508-1.5		9:40		X	
	570-506-0.0		9:45		X	X
	570-506-0.3		9:50		X	
	570-506-0.6		9:52		X	
	570-506-0.9		9:55		X	
	570-506-1.5		10:00		X	
	570-505-0.0		10:05		X	
	570-505-0.3		10:08		X	
	570-505-0.6		10:10		X	
	570-505-0.9		10:13		X	
	570-505-1.5		10:15		X	
	570-504-0.0		10:20		X	X
	570-504-0.3		10:22		X	
	570-504-0.6		10:25		X	
	570-504-0.9		10:27		X	
	570-504-1.5		10:29		X	
	570-503-0.0		10:35		X	
	570-503-0.3		10:38		X	
	570-503-0.6		10:42		X	
	570-503-0.9		10:45		X	
	570-503-1.5		10:48		X	
	570-317-0.0		10:55		X	X
	570-317-0.3		10:58		X	
	570-317-0.6		11:05		X	
	570-317-0.9		11:08		X	
	570-317-1.5		11:12		X	
	570-812-0.0		12:15		X	
	570-812-0.3		12:18		X	
	570-812-0.6		12:22		X	
	570-812-0.9		12:25		X	
	570-812-1.5		12:30		X	
	570-813-0.0		12:40		X	X
	570-813-0.3		12:42		X	
	570-813-0.6		12:50		X	
	570-813-0.9		12:55		X	
	570-301-0		9:00		X	
	570-301-0.3		9:10		X	
	570-301-0.6		9:20		X	
	570-123-0		9:10		X	
	570-123-0.3		9:12		X	
	570-123-0.6		9:16		X	
	570-123-0.9		9:25		X	X
	570-119-0		9:52		X	
	570-119-0.3		9:58		X	
	570-119-0.6		10:02		X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	

Total # of samples: 55

Please See Tab 16

August 15, 2002

David Shaler
Ninyo & Moore
475 Goddard Suite 200
Irvine, CA 92618
TEL: (949) 753-7070
FAX: (949) 753-7071

RECEIVED
AUG 2 6 2002
NINYO & MOORE
ORANGE COUNTY OFFICE

RE: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

Attention: David Shaler

ELAP No.: 1838
NELAP No.: 02107CA
Workorder No.: 057935

Enclosed are the results for sample(s) received on July 15, 2002 by Advanced Technology Laboratories and tested for the parameters indicated in the enclosed chain of custody.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

J Kelly for

Eddie F. Rodriguez
Laboratory Director

This cover letter is an integral part of this analytical report.

Laboratory	Site	Consultant
Advanced Technology Laboratories	Caltrans/I-10 (605-57)/Lead Survey	Ninyo & Moore - David Shaler/Steve Reese
3275 Walnut Avenue, Signal Hill, CA 90807	TO 07-117070-PX	475 Goddard, Suite 200, Irvine, CA 92618
Tel. (562) 989-4045 Fax (562) 989-6348	Project # 203939001	Tel. (949) 753-7070 Fax (949) 753-7071

Special Instructions

See Project specifications. 5 Day TAT.

Relinquished by: (name/date/time) [illegible] 7-15-02

Received by: (name/date/time) [illegible] 5:10p 7-15-02

Relinquished by: (name/date/time) [illegible] 7-15-02 6:40p

Received by: (name/date/time) [illegible] 7/15/02 6:35pm

Lab No	Sample I.D	Date	Time	Sample container P=plastic B=brass	Analyses: Total Lead EPA Method 6010	Analyses: pH EPA Method 9045
	EB- 4			P	X	
	570- 108-0	7-15-02	12:20	B	X	X
	570- 108-0.3		12:22		X	
	570- 108-0.6		12:24		X	
	570- 108-0.9		12:26		X	
	570- 108-1.5		12:30		X	
	570- 109-0		13:18		X	
	570- 109-0.3		13:20		X	
	570- 109-0.6		13:23		X	
	570- 109-0.9		13:27		X	
	570- 109-1.5		13:32		X	
	570- 107-0		13:48		X	X
	570- 107-0.3		13:49		X	
	570- 107-0.6		13:53		X	
	570- 107-0.9		13:55		X	
	570- 107-1.5		13:59		X	
	570- 106-0		14:18		X	
	570- 106-0.3		14:19		X	
	570- 106-0.6		14:22		X	
	570- 106-0.9		14:25		X	
	570- 106-1.5		14:28		X	
	570- 105-0		14:32		X	X
	570- 105-0.3		14:33		X	
	570- 105-0.6		14:58		X	
	570- 104-0		15:10		X	
	570- 104-0.3		15:12		X	
	570- 104-0.6		15:14		X	
	570- 104-0.9		15:16		X	
	570- 104-1.5		15:19		X	
	570- 103-0		15:21		X	
	570- 103-0.3		15:23		X	
	570- 103-0.6		15:29		X	X
	570- 103-0.9		15:31		X	
	570- 103-1.5		15:36		X	
	570- 102-0		15:40		X	
	570- 102-0.3		15:42		X	
	570- 102-0.6		15:46		X	
	570- 102-0.9		15:48		X	
	570- 102-1.5		15:55		X	
	570- 101-0		16:00		X	
	570- 101-0.3		16:02		X	
	570- 101-0.6		16:04		X	X
	570- 101-0.9		16:06		X	
	570- 101-1.5		16:10		X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	

Total # of samples: 44

Advanced Technology Laboratories

Date: *22-Jul-02*

CLIENT: Ninyo & Moore
Lab Order: 057935
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Lab ID: 057935-001A

Client Sample ID: EB-4
Collection Date:
Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
LEAD BY ICP	**(EPA 3010A)**			**EPA 6010B**		
RunID: ICP2_020718A	QC Batch: 9623					Analyst: **RQ**
Lead	ND	0.0050		mg/L	1	7/18/2002

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Date: 7/22/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057935
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/15/2002 6:36:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057935-002A	570-108-0	120	mg/Kg	9604	5	1	7/15/2002	7/18/2002
057935-003A	570-108-0.3	9.7	mg/Kg	9605	5	1	7/15/2002	7/18/2002
057935-004A	570-108-0.6	8.7	mg/Kg	9605	5	1	7/15/2002	7/18/2002
057935-005A	570-108-0.9	8.9	mg/Kg	9605	5	1	7/15/2002	7/18/2002
057935-006A	570-108-1.5	250	mg/Kg	9605	5	1	7/15/2002	7/18/2002
057935-007A	570-109-0	23	mg/Kg	9605	5	1	7/15/2002	7/18/2002
057935-008A	570-109-0.3	17	mg/Kg	9605	5	1	7/15/2002	7/18/2002
057935-009A	570-109-0.6	350	mg/Kg	9605	5	1	7/15/2002	7/18/2002
057935-010A	570-109-0.9	11	mg/Kg	9605	5	1	7/15/2002	7/18/2002
057935-011A	570-109-1.5	10	mg/Kg	9605	5	1	7/15/2002	7/18/2002
057935-012A	570-107-0	6.2	mg/Kg	9605	5	1	7/15/2002	7/18/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: 7/22/2002

LEAD BY ICP
EPA 6010B

CLIENT: Ninyo & Moore
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Project No:
PO No:

Lab Order: 057935
Date Received: 7/15/2002 6:36:0
Matrix: Soil
Analyst: RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057935-013A	570-107-0.3	6.4	mg/Kg	9605	5	1	7/15/2002	7/18/2002
057935-014A	570-107-0.6	410	mg/Kg	9605	5	1	7/15/2002	7/18/2002
057935-015A	570-107-0.9	ND	mg/Kg	9605	5	1	7/15/2002	7/18/2002
057935-016A	570-107-1.5	ND	mg/Kg	9605	5	1	7/15/2002	7/18/2002
057935-017A	570-106-0	87	mg/Kg	9605	5	1	7/15/2002	7/18/2002
057935-018A	570-106-0.3	6.3	mg/Kg	9605	5	1	7/15/2002	7/18/2002
057935-019A	570-106-0.6	ND	mg/Kg	9605	5	1	7/15/2002	7/18/2002
057935-020A	570-106-0.9	ND	mg/Kg	9605	5	1	7/15/2002	7/18/2002
057935-021A	570-106-1.5	ND	mg/Kg	9605	5	1	7/15/2002	7/18/2002
057935-022A	570-105-0	66	mg/Kg	9605	5	1	7/15/2002	7/18/2002
057935-023A	570-105-0.3	6.6	mg/Kg	9606	5	1	7/15/2002	7/18/2002

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Date: 7/22/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057935
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/15/2002 6:36:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057935-024A	570-105-0.6	110	mg/Kg	9606	5	1	7/15/2002	7/18/2002
057935-025A	570-104-0	ND	mg/Kg	9606	5	1	7/15/2002	7/18/2002
057935-026A	570-104-0.3	200	mg/Kg	9606	5	1	7/15/2002	7/18/2002
057935-027A	570-104-0.6	160	mg/Kg	9606	5	1	7/15/2002	7/18/2002
057935-028A	570-104-0.9	ND	mg/Kg	9606	5	1	7/15/2002	7/18/2002
057935-029A	570-104-1.5	210	mg/Kg	9606	5	1	7/15/2002	7/18/2002
057935-030A	570-103-0	250	mg/Kg	9606	5	1	7/15/2002	7/18/2002
057935-031A	570-103-0.3	6.1	mg/Kg	9606	5	1	7/15/2002	7/18/2002
057935-032A	570-103-0.6	470	mg/Kg	9606	5	1	7/15/2002	7/18/2002
057935-033A	570-103-0.9	9.2	mg/Kg	9606	5	1	7/15/2002	7/18/2002
057935-034A	570-103-1.5	1100	mg/Kg	9606	5	1	7/15/2002	7/18/2002

Qualifiers:

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DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: 7/22/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057935
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/15/2002 6:36:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057935-035A	570-102-0	510	mg/Kg	9606	5	1	7/15/2002	7/18/2002
057935-036A	570-102-0.3	22	mg/Kg	9606	5	1	7/15/2002	7/18/2002
057935-037A	570-102-0.6	1400	mg/Kg	9606	5	1	7/15/2002	7/18/2002
057935-038A	570-102-0.9	270	mg/Kg	9606	5	1	7/15/2002	7/18/2002
057935-039A	570-102-1.5	220	mg/Kg	9606	5	1	7/15/2002	7/18/2002
057935-040A	570-101-0	2900	mg/Kg	9606	5	1	7/15/2002	7/18/2002
057935-041A	570-101-0.3	45	mg/Kg	9606	5	1	7/15/2002	7/18/2002
057935-042A	570-101-0.6	1700	mg/Kg	9606	5	1	7/15/2002	7/18/2002
057935-043A	570-101-0.9	140	mg/Kg	9607	5	1	7/15/2002	7/18/2002
057935-044A	570-101-1.5	28	mg/Kg	9607	5	1	7/15/2002	7/18/2002

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Advanced Technology Laboratories

Date: 7/22/2002

pH
EPA 9045C

CLIENT:	Ninyo & Moore	**Lab Order:**	057935
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/15/2002 6:36:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057935-002A	570-108-0	7.43	pH Units	R19556	0.1	1	7/15/2002	7/19/2002
057935-012A	570-107-0	7.82	pH Units	R19556	0.1	1	7/15/2002	7/19/2002
057935-022A	570-105-0	9.12	pH Units	R19556	0.1	1	7/15/2002	7/19/2002
057935-032A	570-103-0.6	6.46	pH Units	R19556	0.1	1	7/15/2002	7/19/2002
057935-042A	570-101-0.6	6.53	pH Units	R19556	0.1	1	7/15/2002	7/19/2002

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DO - Surrogate Diluted Out
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Advanced Technology Laboratories

Date: 7/29/2002

LEAD BY ATOMIC ABSORPTION
WET/ EPA 7420

CLIENT: Ninyo & Moore
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Project No:
PO No:

Lab Order: 057935
Date Received: 7/15/2002 6:36:0
Matrix: Soil
Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057935-002A	570-108-0	27	mg/L	9751	0.8	4	7/15/2002	7/25/2002
057935-006A	570-108-1.5	6.7	mg/L	9751	0.2	1	7/15/2002	7/25/2002
057935-009A	570-109-0.6	14	mg/L	9751	0.4	2	7/15/2002	7/25/2002
057935-014A	570-107-0.6	15	mg/L	9751	0.4	2	7/15/2002	7/25/2002
057935-017A	570-106-0	7.2	mg/L	9751	0.2	1	7/15/2002	7/25/2002
057935-022A	570-105-0	1.9	mg/L	9751	0.2	1	7/15/2002	7/25/2002
057935-024A	570-105-0.6	5.6	mg/L	9751	0.2	1	7/15/2002	7/25/2002
057935-026A	570-104-0.3	4.9	mg/L	9751	0.2	1	7/15/2002	7/25/2002
057935-027A	570-104-0.6	2.1	mg/L	9751	0.2	1	7/15/2002	7/25/2002
057935-029A	570-104-1.5	4.0	mg/L	9751	0.2	1	7/15/2002	7/25/2002
057935-030A	570-103-0	44	mg/L	9751	1.6	8	7/15/2002	7/25/2002

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DO - Surrogate Diluted Out
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H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: 7/29/2002

LEAD BY ATOMIC ABSORPTION
WET/ EPA 7420

CLIENT:	Ninyo & Moore	**Lab Order:**	057935
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/15/2002 6:36:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057935-032A	570-103-0.6	37	mg/L	9751	0.8	4	7/15/2002	7/25/2002
057935-035A	570-102-0	65	mg/L	9751	4	20	7/15/2002	7/25/2002
057935-038A	570-102-0.9	17	mg/L	9751	0.4	2	7/15/2002	7/25/2002
057935-039A	570-102-1.5	9.1	mg/L	9751	0.2	1	7/15/2002	7/25/2002
057935-043A	570-101-0.9	0.22	mg/L	9751	0.2	1	7/15/2002	7/25/2002

Qualifiers:

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J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: 8/2/2002

LEAD BY ATOMIC ABSORPTION
WET DI/ EPA 7420

CLIENT:	Ninyo & Moore	**Lab Order:**	057935
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/15/2002 6:36:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057935-002A	570-108-0	0.22	mg/L	9942	0.2	1	7/15/2002	8/1/2002
057935-006A	570-108-1.5	ND	mg/L	9942	0.2	1	7/15/2002	8/1/2002
057935-009A	570-109-0.6	0.54	mg/L	9942	0.2	1	7/15/2002	8/1/2002
057935-014A	570-107-0.6	0.34	mg/L	9942	0.2	1	7/15/2002	8/1/2002
057935-017A	570-106-0	0.49	mg/L	9942	0.2	1	7/15/2002	8/1/2002
057935-024A	570-105-0.6	ND	mg/L	9942	0.2	1	7/15/2002	8/1/2002
057935-030A	570-103-0	0.75	mg/L	9942	0.2	1	7/15/2002	8/1/2002
057935-032A	570-103-0.6	ND	mg/L	9943	0.2	1	7/15/2002	8/1/2002
057935-035A	570-102-0	1.6	mg/L	9943	0.2	1	7/15/2002	8/1/2002
057935-038A	570-102-0.9	0.95	mg/L	9943	0.2	1	7/15/2002	8/1/2002
057935-039A	570-102-1.5	0.29	mg/L	9943	0.2	1	7/15/2002	8/1/2002

Qualifiers:

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DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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Date: *13-Aug-02*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	570-106-0.3
Lab Order:	057935		
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Collection Date:**	7/15/2002 2:19:00 PM
Lab ID:	057935-018A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS						
	(EPA 3050A)			**EPA 6010B**		
RunID: ICP2_020810B	QC Batch: 10209					Analyst: **RQ**
Antimony	ND	2.5		mg/Kg	10	8/10/2002
Arsenic	5.0	2.5		mg/Kg	10	8/10/2002
Barium	100	1.5		mg/Kg	10	8/10/2002
Beryllium	ND	1.5		mg/Kg	10	8/10/2002
Cadmium	ND	1.5		mg/Kg	10	8/10/2002
Chromium	5.0	1.5		mg/Kg	10	8/10/2002
Cobalt	5.0	1.5		mg/Kg	10	8/10/2002
Copper	10	1.5		mg/Kg	10	8/10/2002
Molybdenum	ND	2.5		mg/Kg	10	8/10/2002
Nickel	5.0	1.5		mg/Kg	10	8/10/2002
Selenium	ND	2.5		mg/Kg	10	8/10/2002
Silver	ND	1.5		mg/Kg	10	8/10/2002
Thallium	ND	2.5		mg/Kg	10	8/10/2002
Vanadium	20	1.5		mg/Kg	10	8/10/2002
Zinc	40	5.0		mg/Kg	10	8/10/2002
MERCURY BY COLD VAPOR TECHNIQUE						
	(EPA 7471)			**EPA 7471A**		
RunID: AA1_020809A	QC Batch: 10164					Analyst: **NS**
Mercury	0.13	0.10		mg/Kg	1	8/9/2002

Qualifiers:

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H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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Date: *13-Aug-02*

CLIENT: Ninyo & Moore
Lab Order: 057935
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Lab ID: 057935-040A

Client Sample ID: 570-101-0
Collection Date: 7/15/2002 4:00:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS	**(EPA 3050A)**			**EPA 6010B**		
RunID: ICP2_020810B	QC Batch: 10209					Analyst: RQ
Antimony	ND	2.5		mg/Kg	10	8/10/2002
Arsenic	10	2.5		mg/Kg	10	8/10/2002
Barium	140	1.5		mg/Kg	10	8/10/2002
Beryllium	ND	1.5		mg/Kg	10	8/10/2002
Cadmium	ND	1.5		mg/Kg	10	8/10/2002
Chromium	10	1.5		mg/Kg	10	8/10/2002
Cobalt	5.0	1.5		mg/Kg	10	8/10/2002
Copper	55	1.5		mg/Kg	10	8/10/2002
Molybdenum	2.8	2.5		mg/Kg	10	8/10/2002
Nickel	20	1.5		mg/Kg	10	8/10/2002
Selenium	ND	2.5		mg/Kg	10	8/10/2002
Silver	ND	1.5		mg/Kg	10	8/10/2002
Thallium	ND	2.5		mg/Kg	10	8/10/2002
Vanadium	25	1.5		mg/Kg	10	8/10/2002
Zinc	380	5.0		mg/Kg	10	8/10/2002
MERCURY BY COLD VAPOR TECHNIQUE	**(EPA 7471)**			**EPA 7471A**		
RunID: AA1_020809A	QC Batch: 10164					Analyst: NS
Mercury	0.10	0.10		mg/Kg	1	8/9/2002

Qualifiers:
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DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: *13-Aug-02*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	570-101-0.6
Lab Order:	057935		
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Collection Date:**	7/15/2002 4:04:00 PM
Lab ID:	057935-042A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS						
	(EPA 3050A)			**EPA 6010B**		
RunID: ICP2_020810B	QC Batch: 10209					Analyst: **RQ**
Antimony	ND	2.5		mg/Kg	10	8/10/2002
Arsenic	10	2.5		mg/Kg	10	8/10/2002
Barium	220	1.5		mg/Kg	10	8/10/2002
Beryllium	ND	1.5		mg/Kg	10	8/10/2002
Cadmium	ND	1.5		mg/Kg	10	8/10/2002
Chromium	20	1.5		mg/Kg	10	8/10/2002
Cobalt	5.0	1.5		mg/Kg	10	8/10/2002
Copper	120	1.5		mg/Kg	10	8/10/2002
Molybdenum	5.0	2.5		mg/Kg	10	8/10/2002
Nickel	20	1.5		mg/Kg	10	8/10/2002
Selenium	ND	2.5		mg/Kg	10	8/10/2002
Silver	ND	1.5		mg/Kg	10	8/10/2002
Thallium	ND	2.5		mg/Kg	10	8/10/2002
Vanadium	20	1.5		mg/Kg	10	8/10/2002
Zinc	690	5.0		mg/Kg	10	8/10/2002
MERCURY BY COLD VAPOR TECHNIQUE						
	(EPA 7471)			**EPA 7471A**		
RunID: AA1_020809A	QC Batch: 10164					Analyst: **NS**
Mercury	0.15	0.10		mg/Kg	1	8/9/2002

Qualifiers:

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S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: 8/15/2002

LEAD BY ATOMIC ABSORPTION
EPA 1311/ 7420

CLIENT: Ninyo & Moore
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Project No:
PO No:

Lab Order: 057935
Date Received: 7/15/2002 6:36:0
Matrix: Soil
Analyst: NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057935-002A	570-108-0	0.64	mg/L	10352	0.2	1	7/15/2002	8/14/2002
057935-009A	570-109-0.6	0.29	mg/L	10352	0.2	1	7/15/2002	8/14/2002
057935-014A	570-107-0.6	2.3	mg/L	10354	0.2	1	7/15/2002	8/14/2002
057935-030A	570-103-0	1.3	mg/L	10354	0.2	1	7/15/2002	8/14/2002
057935-032A	570-103-0.6	1.8	mg/L	10354	0.2	1	7/15/2002	8/14/2002
057935-034A	570-103-1.5	2.3	mg/L	10086	0.2	1	7/15/2002	8/6/2002
057935-035A	570-102-0	4.5	mg/L	10354	0.2	1	7/15/2002	8/14/2002
057935-037A	570-102-0.6	8.5	mg/L	10086	0.2	1	7/15/2002	8/6/2002
057935-038A	570-102-0.9	5.2	mg/L	10354	0.2	1	7/15/2002	8/14/2002
057935-040A	570-101-0	8.4	mg/L	10086	0.2	1	7/15/2002	8/6/2002
057935-042A	570-101-0.6	1.6	mg/L	10086	0.2	1	7/15/2002	8/6/2002

Qualifiers:
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DO - Surrogate Diluted Out
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Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: *15-Aug-02*

CLIENT: Ninyo & Moore
Work Order: 057935
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10086

Sample ID: MB-10086	SampType: mblk	TestCode: 7420_TC	Units: mg/L	Prep Date: 8/5/2002	Run ID: AA2_020806G
Client ID: ZZZZZ	Batch ID: 10086	TestNo: EPA 1311/ 74	(EPA 3010A)	Analysis Date: 8/6/2002	SeqNo: 314586

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: MB-10076-TCLP	SampType: mblk	TestCode: 7420_TC	Units: mg/L	Prep Date: 8/5/2002	Run ID: AA2_020806G
Client ID: ZZZZZ	Batch ID: 10086	TestNo: EPA 1311/ 74	(EPA 3010A)	Analysis Date: 8/6/2002	SeqNo: 314587

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.07372	0.20									

Sample ID: LCS-10086	SampType: lcs	TestCode: 7420_TC	Units: mg/L	Prep Date: 8/5/2002	Run ID: AA2_020806G
Client ID: ZZZZZ	Batch ID: 10086	TestNo: EPA 1311/ 74	(EPA 3010A)	Analysis Date: 8/6/2002	SeqNo: 314601

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.172	0.20	1	0	117	80	120	0	0		

Sample ID: 057950-033AMS	SampType: MS	TestCode: 7420_TC	Units: mg/L	Prep Date: 8/5/2002	Run ID: AA2_020806G
Client ID: ZZZZZ	Batch ID: 10086	TestNo: EPA 1311/ 74	(EPA 3010A)	Analysis Date: 8/6/2002	SeqNo: 314599

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	8.972	0.20	2.5	5.811	126	80	120	0	0		S

Sample ID: 057950-033ADUP	SampType: DUP	TestCode: 7420_TC	Units: mg/L	Prep Date: 8/5/2002	Run ID: AA2_020806G
Client ID: ZZZZZ	Batch ID: 10086	TestNo: EPA 1311/ 74	(EPA 3010A)	Analysis Date: 8/6/2002	SeqNo: 314598

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	6.054	0.20	0	0	0	0	0	5.811	4.09	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

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CLIENT: Ninyo & Moore
Work Order: 057935
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10164

Sample ID: **MB-10164** SampType: **mblk** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809A**
Client ID: **ZZZZZ** Batch ID: **10164** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316084**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: **LCS-10164** SampType: **lcs** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809A**
Client ID: **ZZZZZ** Batch ID: **10164** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316083**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.043	0.10	2.08	0	98.2	80	120	0	0		

Sample ID: **057935-042AMS** SampType: **MS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809A**
Client ID: **570-101-0.6** Batch ID: **10164** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316081**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.03	0.10	0.83	0.1521	106	62	146	0	0		

Sample ID: **057935-042AMSD** SampType: **MSD** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809A**
Client ID: **570-101-0.6** Batch ID: **10164** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316082**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.9301	0.10	0.83	0.1521	93.7	62	146	1.03	10.2	33	

Sample ID: **057935-042ADUP** SampType: **DUP** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809A**
Client ID: **570-101-0.6** Batch ID: **10164** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316080**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.1234	0.10	0	0	0	0	0	0.1521	20.8	30	

Qualifiers:
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Calculations are based on raw values
DO - Surrogate diluted out
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CLIENT: Ninyo & Moore
Work Order: 057935
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10209

Sample ID: **MB-10209** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/9/2002** Run ID: **ICP2_020810B**
Client ID: **ZZZZZ** Batch ID: **10209** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316560**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.0505	0.25									J
Arsenic	0.1785	0.25									J
Barium	ND	0.15									
Beryllium	0.011	0.15									J
Cadmium	0.0285	0.15									J
Chromium	ND	0.15									
Cobalt	0.038	0.15									J
Copper	ND	0.15									
Molybdenum	0.0045	0.25									J
Nickel	ND	0.15									
Selenium	ND	0.25									
Silver	0.036	0.15									J
Thallium	0.046	0.25									J
Vanadium	ND	0.15									
Zinc	0.037	0.50									J

Sample ID: **LCS-10209** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/9/2002** Run ID: **ICP2_020810B**
Client ID: **ZZZZZ** Batch ID: **10209** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316561**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	46	0.25	50	0	92	80	120	0	0		
Arsenic	47	0.25	50	0	94	80	120	0	0		
Barium	50.5	0.15	50	0	101	80	120	0	0		
Beryllium	46.5	0.15	50	0	93	80	120	0	0		
Cadmium	46	0.15	50	0	92	80	120	0	0		
Chromium	48	0.15	50	0	96	80	120	0	0		
Cobalt	47.5	0.15	50	0	95	80	120	0	0		
Copper	48.5	0.15	50	0	97	80	120	0	0		
Molybdenum	48	0.25	50	0	96	80	120	0	0		
Nickel	46	0.15	50	0	92	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; S - Spike/Surrogate outside limits due to matrix interference; B - Analyte detected in the associated Method Blank; **Calculations are based on raw values**; DO - Surrogate diluted out; H - Sample exceeded holding time

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Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10209

Sample ID: **LCS-10209** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/9/2002** Run ID: **ICP2_020810B**
Client ID: **ZZZZZ** Batch ID: **10209** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316561**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	43	0.25	50	0	86	80	120	0	0		
Silver	48.5	0.15	50	0	97	80	120	0	0		
Thallium	48	0.25	50	0	96	80	120	0	0		
Vanadium	48	0.15	50	0	96	80	120	0	0		
Zinc	47	0.50	50	0	94	80	120	0	0		

Sample ID: **057948-004AMS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/9/2002** Run ID: **ICP2_020810B**
Client ID: **ZZZZZ** Batch ID: **10209** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316573**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	65	2.5	125	0.895	51.3	32	115	0	0		
Arsenic	130	2.5	125	10	96	59	111	0	0		
Barium	280	1.5	125	135	116	34	151	0	0		
Beryllium	120	1.5	125	0	96	56	112	0	0		
Cadmium	115	1.5	125	0	92	52	120	0	0		
Chromium	140	1.5	125	15	100	56	118	0	0		
Cobalt	130	1.5	125	10	96	58	117	0	0		
Copper	155	1.5	125	30	100	58	134	0	0		
Molybdenum	115	2.5	125	0.905	91.3	56	115	0	0		
Nickel	135	1.5	125	15	96	52	120	0	0		
Selenium	120	2.5	125	0	96	46	108	0	0		
Silver	125	1.5	125	0.1	99.9	74	117	0	0		
Thallium	125	2.5	125	2.41	98.1	62	117	0	0		
Vanadium	180	1.5	125	55	100	55	122	0	0		
Zinc	260	5.0	125	145	92	43	134	0	0		

Sample ID: **057948-004AMSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/9/2002** Run ID: **ICP2_020810B**
Client ID: **ZZZZZ** Batch ID: **10209** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316574**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
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ANALYTICAL QC SUMMARY REPORT

BatchID: 10209

Sample ID: 057948-004AMSD SampType: MSD TestCode: 6010_S Units: mg/Kg Prep Date: 8/9/2002 Run ID: ICP2_020810B
Client ID: ZZZZZ Batch ID: 10209 TestNo: EPA 6010B (EPA 3050A) Analysis Date: 8/10/2002 SeqNo: 316574

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	75	2.5	125	0.895	59.3	32	115	65	14.3	20	
Arsenic	135	2.5	125	10	100	59	111	130	3.77	20	
Barium	265	1.5	125	135	104	34	151	280	5.50	20	
Beryllium	120	1.5	125	0	96	56	112	120	0	20	
Cadmium	115	1.5	125	0	92	52	120	115	0	20	
Chromium	140	1.5	125	15	100	56	118	140	0	20	
Cobalt	130	1.5	125	10	96	58	117	130	0	20	
Copper	160	1.5	125	30	104	58	134	155	3.17	20	
Molybdenum	120	2.5	125	0.905	95.3	56	115	115	4.26	20	
Nickel	140	1.5	125	15	100	52	120	135	3.64	20	
Selenium	125	2.5	125	0	100	46	108	120	4.08	20	
Silver	125	1.5	125	0.1	99.9	74	117	125	0	20	
Thallium	130	2.5	125	2.41	102	62	117	125	3.92	20	
Vanadium	185	1.5	125	55	104	55	122	180	2.74	20	
Zinc	280	5.0	125	145	108	43	134	260	7.41	20	

Sample ID: 057948-004ADUP SampType: DUP TestCode: 6010_S Units: mg/Kg Prep Date: 8/9/2002 Run ID: ICP2_020810B
Client ID: ZZZZZ Batch ID: 10209 TestNo: EPA 6010B (EPA 3050A) Analysis Date: 8/10/2002 SeqNo: 316572

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.13	2.5	0	0	0	0	0	0.895	0	30	J
Arsenic	10	2.5	0	0	0	0	0	10	0	30	
Barium	130	1.5	0	0	0	0	0	135	3.77	30	
Beryllium	ND	1.5	0	0	0	0	0	0	0	30	
Cadmium	ND	1.5	0	0	0	0	0	0	0	30	
Chromium	15	1.5	0	0	0	0	0	15	0	30	
Cobalt	10	1.5	0	0	0	0	0	10	0	30	
Copper	30	1.5	0	0	0	0	0	30	0	30	
Molybdenum	1.19	2.5	0	0	0	0	0	0.905	0	30	J
Nickel	15	1.5	0	0	0	0	0	15	0	30	

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; S - Spike/Surrogate outside limits due to matrix interference; B - Analyte detected in the associated Method Blank; **Calculations are based on raw values**; DO - Surrogate diluted out; H - Sample exceeded holding time

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ANALYTICAL QC SUMMARY REPORT

BatchID: 10209

Sample ID: **057948-004ADUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/9/2002** Run ID: **ICP2_020810B**
Client ID: **ZZZZZ** Batch ID: **10209** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316572**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	ND	2.5	0	0	0	0	0	0	0	30	
Silver	0.4	1.5	0	0	0	0	0	0.1	0	30	J
Thallium	1.715	2.5	0	0	0	0	0	2.41	0	30	J
Vanadium	55	1.5	0	0	0	0	0	55	0	30	
Zinc	155	5.0	0	0	0	0	0	145	6.67	30	

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 10352

Sample ID: MB-10352 | SampType: MBLK | TestCode: 7420_TC | Units: mg/L | Prep Date: 8/13/2002 | Run ID: AA2_020814R
Client ID: ZZZZZ | Batch ID: 10352 | TestNo: EPA 1311/ 74 (EPA 3010A) | Analysis Date: 8/14/2002 | SeqNo: 318952

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: MB-10267-TCLP | SampType: MBLK | TestCode: 7420_TC | Units: mg/L | Prep Date: 8/13/2002 | Run ID: AA2_020814R
Client ID: ZZZZZ | Batch ID: 10352 | TestNo: EPA 1311/ 74 (EPA 3010A) | Analysis Date: 8/14/2002 | SeqNo: 318953

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: LCS-10352 | SampType: LCS | TestCode: 7420_TC | Units: mg/L | Prep Date: 8/13/2002 | Run ID: AA2_020814R
Client ID: ZZZZZ | Batch ID: 10352 | TestNo: EPA 1311/ 74 (EPA 3010A) | Analysis Date: 8/14/2002 | SeqNo: 318967

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.127	0.20	1	0	113	80	120	0	0		

Sample ID: 057952-049AMS | SampType: MS | TestCode: 7420_TC | Units: mg/L | Prep Date: 8/13/2002 | Run ID: AA2_020814R
Client ID: ZZZZZ | Batch ID: 10352 | TestNo: EPA 1311/ 74 (EPA 3010A) | Analysis Date: 8/14/2002 | SeqNo: 318965

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.954	0.20	2.5	1.227	109	80	120	0	0		

Sample ID: 057952-049ADUP | SampType: DUP | TestCode: 7420_TC | Units: mg/L | Prep Date: 8/13/2002 | Run ID: AA2_020814R
Client ID: ZZZZZ | Batch ID: 10352 | TestNo: EPA 1311/ 74 (EPA 3010A) | Analysis Date: 8/14/2002 | SeqNo: 318964

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.068	0.20	0	0	0	0	0	1.227	13.9	30	

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 10354

Sample ID: **MB-10354** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814S**
Client ID: **ZZZZZ** Batch ID: **10354** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **318968**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.08864	0.20									

Sample ID: **MB-10268-TCLP** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814S**
Client ID: **ZZZZZ** Batch ID: **10354** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **318969**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-10354** SampType: **LCS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814S**
Client ID: **ZZZZZ** Batch ID: **10354** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **318983**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.103	0.20	1	0	110	80	120	0	0		

Sample ID: **057974-031AMS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814S**
Client ID: **ZZZZZ** Batch ID: **10354** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **318981**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.121	0.20	2.5	2.037	43.4	80	120	0	0		S

Sample ID: **057974-031ADUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814S**
Client ID: **ZZZZZ** Batch ID: **10354** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **318980**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.978	0.20	0	0	0	0	0	2.037	2.94	30	

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9604

Sample ID: **MB-9604A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718B**
Client ID: **ZZZZZ** Batch ID: **9604** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301073**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **MB-9604B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718B**
Client ID: **ZZZZZ** Batch ID: **9604** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301074**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-9604** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718B**
Client ID: **ZZZZZ** Batch ID: **9604** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301072**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	239	5.0	250	0	95.6	80	120	0	0		

Sample ID: **057934-019AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718B**
Client ID: **ZZZZZ** Batch ID: **9604** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301058**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1231	5.0	250	1039	76.8	47	128	0	0		

Sample ID: **057935-002AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718B**
Client ID: **570-108-0** Batch ID: **9604** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301070**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	530.4	5.0	250	116.1	166	47	128	0	0		S

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9604

Sample ID: **057934-019ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718B**
Client ID: **ZZZZZ** Batch ID: **9604** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301057**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	863.5	5.0	0	0	0	0	0	1039	18.4	30	

Sample ID: **057935-002ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718B**
Client ID: **570-108-0** Batch ID: **9604** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301069**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	264.5	5.0	0	0	0	0	0	116.1	78.0	30	R

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

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ANALYTICAL QC SUMMARY REPORT

BatchID: 9605

Sample ID: **MB-9605A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718C**
Client ID: **ZZZZZ** Batch ID: **9605** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301101**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **MB-9605B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718C**
Client ID: **ZZZZZ** Batch ID: **9605** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301102**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-9605** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718C**
Client ID: **ZZZZZ** Batch ID: **9605** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301100**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	227	5.0	250	0	90.8	80	120	0	0		

Sample ID: **057935-012AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718C**
Client ID: **570-107-0** Batch ID: **9605** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301086**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	182	5.0	250	6.236	70.3	47	128	0	0		

Sample ID: **057935-022AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718C**
Client ID: **570-105-0** Batch ID: **9605** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301098**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	182.1	5.0	250	66.33	46.3	47	128	0	0		S

Qualifiers:
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BatchID: 9605

Sample ID: **057935-012ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718C**
Client ID: **570-107-0** Batch ID: **9605** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301085**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.757	5.0	0	0	0	0	0	6.236	21.7	30	

Sample ID: **057935-022ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718C**
Client ID: **570-105-0** Batch ID: **9605** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301097**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	47.23	5.0	0	0	0	0	0	66.33	33.6	30	R

Qualifiers:
ND - Not Detected at the Reporting Limit
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BatchID: 9606

Sample ID: **MB-9606A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718D**
Client ID: **ZZZZZ** Batch ID: **9606** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301141**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **MB-9606B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718D**
Client ID: **ZZZZZ** Batch ID: **9606** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301142**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-9606** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718D**
Client ID: **ZZZZZ** Batch ID: **9606** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301140**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	240.4	5.0	250	0	96.2	80	120	0	0		

Sample ID: **057935-032AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718D**
Client ID: **570-103-0.6** Batch ID: **9606** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301126**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	451.9	5.0	250	473.5	-8.67	47	128	0	0		S

Sample ID: **057935-042AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718D**
Client ID: **570-101-0.6** Batch ID: **9606** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301138**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2077	5.0	250	1688	156	47	128	0	0		S

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9606

Sample ID: **057935-032ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718D**
Client ID: **570-103-0.6** Batch ID: **9606** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301125**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	380.9	5.0	0	0	0	0	0	473.5	21.7	30	

Sample ID: **057935-042ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718D**
Client ID: **570-101-0.6** Batch ID: **9606** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301137**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2086	5.0	0	0	0	0	0	1688	21.1	30	

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9607

Sample ID: **MB-9607A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718E**
Client ID: **ZZZZZ** Batch ID: **9607** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301149**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-9607** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718E**
Client ID: **ZZZZZ** Batch ID: **9607** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301148**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	234.4	5.0	250	0	93.8	80	120	0	0		

Sample ID: **057935-044AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718E**
Client ID: **570-101-1.5** Batch ID: **9607** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301146**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	223	5.0	250	27.85	78.1	47	128	0	0		

Sample ID: **057935-044ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718E**
Client ID: **570-101-1.5** Batch ID: **9607** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301145**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	89.41	5.0	0	0	0	0	0	27.85	105	30	R

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9623

Sample ID: **MB-9623** SampType: **MBLK** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718A**
Client ID: **ZZZZZ** Batch ID: **9623** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **300879**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.0050									

Sample ID: **LCS-9623** SampType: **LCS** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718A**
Client ID: **ZZZZZ** Batch ID: **9623** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **300880**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.94	0.0050	1	0	94	80	120	0	0		

Sample ID: **057936-066AMS** SampType: **MS** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718A**
Client ID: **ZZZZZ** Batch ID: **9623** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **300891**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.43	0.0050	2.5	0	97.2	66	118	0	0		

Sample ID: **057936-066ADUP** SampType: **DUP** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718A**
Client ID: **ZZZZZ** Batch ID: **9623** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **300890**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.0050	0	0	0	0	0	0	0	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9751

Sample ID: **MB-9751** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/25/2002** Run ID: **AA2_020725J**
Client ID: **ZZZZZ** Batch ID: **9751** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/25/2002** SeqNo: **306254**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.0558	0.20									

Sample ID: **MB-9751A** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/22/2002** Run ID: **AA2_020725J**
Client ID: **ZZZZZ** Batch ID: **9751** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/25/2002** SeqNo: **306255**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.05814	0.20									

Sample ID: **MB-9751B** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/22/2002** Run ID: **AA2_020725J**
Client ID: **ZZZZZ** Batch ID: **9751** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/25/2002** SeqNo: **306268**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-9751** SampType: **LCS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/25/2002** Run ID: **AA2_020725J**
Client ID: **ZZZZZ** Batch ID: **9751** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/25/2002** SeqNo: **306278**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.124	0.20	7.5	0	95	80	120	0	0		

Sample ID: **057935-029AMS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/25/2002** Run ID: **AA2_020725J**
Client ID: **570-104-1.5** Batch ID: **9751** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/25/2002** SeqNo: **306267**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	8.296	0.20	5	3.997	86	80	120	0	0		

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9751

Sample ID: **057935-043AMS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/25/2002** Run ID: **AA2_020725J**
Client ID: **570-101-0.9** Batch ID: **9751** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/25/2002** SeqNo: **306276**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.653	0.20	5	0.2208	88.6	80	120	0	0		

Sample ID: **057935-029ADUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/22/2002** Run ID: **AA2_020725J**
Client ID: **570-104-1.5** Batch ID: **9751** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/25/2002** SeqNo: **306266**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	11.52	0.40	0	0	0	0	0	3.997	97.0	30	R

Sample ID: **057935-043ADUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/22/2002** Run ID: **AA2_020725J**
Client ID: **570-101-0.9** Batch ID: **9751** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/25/2002** SeqNo: **306275**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.1735	0.20	0	0	0	0	0	0.2208	0	30	J

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9942

Sample ID: **MB-9942** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/1/2002** Run ID: **AA2_020801D**
Client ID: **ZZZZZ** Batch ID: **9942** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/1/2002** SeqNo: **310925**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9942A** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/29/2002** Run ID: **AA2_020801D**
Client ID: **ZZZZZ** Batch ID: **9942** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/1/2002** SeqNo: **310926**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.06424	0.20									

Sample ID: **MB-9942B** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/29/2002** Run ID: **AA2_020801D**
Client ID: **ZZZZZ** Batch ID: **9942** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/1/2002** SeqNo: **310939**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-9942** SampType: **LCS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/1/2002** Run ID: **AA2_020801D**
Client ID: **ZZZZZ** Batch ID: **9942** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/1/2002** SeqNo: **310953**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.094	0.20	7.5	0	94.6	80	120	0	0		

Sample ID: **057934-022AMS** SampType: **MS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/1/2002** Run ID: **AA2_020801D**
Client ID: **ZZZZZ** Batch ID: **9942** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/1/2002** SeqNo: **310938**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.128	0.20	5	0.1857	98.8	80	120	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
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DO - Surrogate diluted out
H - Sample exceeded holding time

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Ninyo & Moore
Work Order: 057935
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 9942

Sample ID: **057935-030AMS** SampType: **MS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/1/2002** Run ID: **AA2_020801D**
Client ID: **570-103-0** Batch ID: **9942** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/1/2002** SeqNo: **310951**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.617	0.20	5	0.748	97.4	80	120	0	0		

Sample ID: **057934-022ADUP** SampType: **DUP** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/29/2002** Run ID: **AA2_020801D**
Client ID: **ZZZZZ** Batch ID: **9942** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/1/2002** SeqNo: **310937**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.1286	0.20	0	0	0	0	0	0.1857	0	30	J

Sample ID: **057935-030ADUP** SampType: **DUP** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/29/2002** Run ID: **AA2_020801D**
Client ID: **570-103-0** Batch ID: **9942** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/1/2002** SeqNo: **310950**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.5721	0.20	0	0	0	0	0	0.748	26.6	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

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Work Order: 057935
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 9943

Sample ID: **MB-9943** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/1/2002** Run ID: **AA2_020801E**
Client ID: **ZZZZZ** Batch ID: **9943** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/1/2002** SeqNo: **310954**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9943A** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/29/2002** Run ID: **AA2_020801E**
Client ID: **ZZZZZ** Batch ID: **9943** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/1/2002** SeqNo: **310955**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-9943** SampType: **LCS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/1/2002** Run ID: **AA2_020801E**
Client ID: **ZZZZZ** Batch ID: **9943** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/1/2002** SeqNo: **310964**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.102	0.20	7.5	0	94.7	80	120	0	0		

Sample ID: **057935-039AMS** SampType: **MS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/1/2002** Run ID: **AA2_020801E**
Client ID: **570-102-1.5** Batch ID: **9943** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/1/2002** SeqNo: **310962**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.409	0.20	5	0	108	80	120	0	0		

Sample ID: **057935-039ADUP** SampType: **DUP** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/29/2002** Run ID: **AA2_020801E**
Client ID: **570-102-1.5** Batch ID: **9943** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/1/2002** SeqNo: **310961**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.3404	0.20	0	0	0	0	0	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

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CLIENT: Ninyo & Moore
Work Order: 057935
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: R19556

Sample ID: **057936-020A-DUP** SampType: **DUP** TestCode: **9045_S** Units: **pH Units** Prep Date: **7/19/2002** Run ID: **WETCHEM_020719A**
Client ID: **ZZZZZ** Batch ID: **R19556** TestNo: **EPA 9045C** Analysis Date: **7/19/2002** SeqNo: **301616**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.065	0.10	0	0	0	0	0	6.97	1.35	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

Rachelle

From: Steve Reese [sreese@ninyoandmoore.com]
Sent: Wednesday, July 31, 2002 9:27 AM
To: 'rachelle@atlglobal.com'
Cc: David Shaler (E-mail); Ruth Cheung (E-mail)
Subject: TCLP Analysis

TCLP.xls

Rachelle,
Attached please find a list of samples to be run for the TCLP analysis. Currently, we selected all of the samples that are greater than 1,000 mg/kg
of TTLC results. However, they will be ran by instruction only. There may
be more samples chosen for TCLP analysis in the future, but please run these 82 samples for now. Please call with any questions.
Thank you, Steve

Stephen S. Reese
Senior Staff Environmental Scientist
Ninyo & Moore Geotechnical & Environmental Sciences Consultants
475 Goddard, Suite 200
Irvine, California 92618
Tel: (949) 753-7070
Fax: (949) 753-7071
Email: sreese@ninyoandmoore.com
www.ninyoandmoore.com

RUN FOR TCLP ANALYSIS			
33	20	29	82
569-101-0	570-101-0	571-104-0	
569-102-0	570-101-0.6	571-120-0	
569-102-0.3	570-102-0.6	571-310-0.9	
569-102-0.9	570-103-1.5	571-317-0	
569-111-0	570-114-0.6	571-320-0	
569-112-0	570-115-0	571-325-0.6	
569-112-0.6	570-119-0.3	571-507-0	
569-201-0	570-201-0	571-511-0	
569-212-0	570-214-0	571-514-0	
569-301-0	570-311-0.6	571-524-0	
569-303-0.9	570-312-0.6	571-710-0	
569-314-0	570-504-0	571-710-0.3	
569-401-0	570-508-0	571-711-0	
569-404-0.6	570-517-0	571-711-0.3	
569-405-0.6	570-517-0.3	571-712-0	
569-408-0.9	570-610-0.6	571-712-0.3	
569-502-0.6	570-615-0	571-201-0.6	
569-516-0	570-706-0	571-405-0	
569-603-0.3	570-709-0	571-406-0	
569-607-0	570-808-0.6	571-407-0	
569-607-0.3		571-414-0	
569-609-0		571-609-0	
569-609-0.3		571-611-0	
569-703-0		571-616-0	
569-703-0.9		571-617-0	
569-705-0		571-619-1.5	
569-705-0.3		571-814-0.3	
569-706-0		571-818-0.6	
569-708-0		571-819-0	
569-710-0			
569-711-0			
569-711-0.3			
569-801-0.3			

Rachelle

From: Ruth Cheung [rcheung@ninyoandmoore.com]
Sent: Tuesday, August 06, 2002 3:46 PM
To: 'Rachelle'; 'David Shaler (E-mail)'
Subject: Title 22 Metals

Title 22 Metals.xls

Rachelle,
Please run the following samples for Title 22 Metals. Please do not list
Pb in your emailed results. There should be a total of 120 samples to be
run.
Thanks.

Ruth L. Cheung
Staff Environmental Scientist
Ninyo & Moore
(949) 753-7070 x2273

569-102-0.9	570-101-0	571-101-0.9
569-112-0	570-101-0.6	571-104-0
569-201-0	570-201-0	571-201-0.6
569-206-0.6	570-205-0.9	571-108-1.5
569-106-1.5	570-106-0.3	571-111-0.3
569-212-0	570-208-1.5	571-207-0
569-401-0.6	570-111-0.6	571-210-0.6
569-301-0	570-214-0	571-115-0.9
569-303-0.9	570-115-0.3	571-214-0.3
569-404-0.6	570-119-0.9	571-120-0
569-408-0.9	570-224-0.6	571-217-1.5
569-314-0	570-401-0	571-220-0.6
569-313-0.3	570-401-0.3	571-301-0.3
569-502-0.6	570-304-1.5	571-405-0
569-602-1.5	570-307-0.9	571-306-0.9
569-607-0.3	570-311-0.6	571-407-0
569-607-0	570-312-0.6	571-310-0.9
569-508-0.9	570-316-0.3	571-315-0.3
569-511-0.6	570-601-0	571-412-1.5
569-612-1.5	570-505-1.5	571-317-0
569-516-0	570-508-0	571-320-0.6
569-801-0.3	570-610-0.6	571-416-0.9
569-519-0.6	570-511-0.9	571-325-0.3
569-803-0.9	570-615-0	571-421-1.5
569-705-0	570-514-0.3	571-425-0
569-806-1.5	570-517-0	571-501-0.6
569-708-0.3	570-618-0.6	571-503-0.9
569-711-0	570-621-1.5	571-603-0.3
569-811-0	570-703-0.9	571-507-0
	570-804-0	571-609-0
	570-706-0	571-510-1.5
	570-709-0	571-611-0
	570-808-0.6	571-514-0
	570-711-1.5	571-614-0.3
	570-812-0.3	571-517-0.9
		571-617-0.6
		571-520-1.5
		571-621-0.3
		571-524-0
		571-624-0.9
		571-529-0.3
		571-628-0.6
		571-703-1.5
		571-707-0
		571-804-0.9
		571-809-0.3
		571-711-0
		571-712-0
		571-814-0.3
		571-818-0.6
		571-819-0
		571-827-1.5

571-832-0.9
571-836-0.3
571-837-0.6
571-842-0

Rachelle

From: Ruth Cheung [rcheung@ninyoandmoore.com]
Sent: Thursday, August 08, 2002 9:14 AM
To: 'Rachelle'
Subject: TCLP Analysis

TCLP-3.xls

In addition to the 90 TCLP already run please run the following samples for
TCLP. There should be a list of 350 samples.
Thanks for a the hard work and timely results.

Ruth L. Cheung
Staff Environmental Scientist
Ninyo & Moore
(949) 753-7070 x2273

-----Original Message-----
From: Rachelle [SMTP:Rachelle@ATLGlobal.com]
Sent: Wednesday, August 07, 2002 5:02 PM
To: 'David Shaler (E-mail)'
Cc: 'Ruth Cheung (E-mail)'
Subject: TCLP Results

<<57931TCLP.xls>> <<58001TCLP.xls>> <<58021TCLP.xls>> <<58022TCLP.xls>>
<<58023TCLP.xls>> <<58024TCLP.xls>> <<58049TCLP.xls>> <<58050TCLP.xls>>
<<58052TCLP.xls>> <<58053TCLP.xls>> <<58065TCLP.xls>> <<58066TCLP.xls>>
<<58067TCLP.xls>> <<58068TCLP.xls>> <<58069TCLP.xls>>

Rachelle Arada
Project Coordinator
www.atlglobal.com
voice: 562.989.4045 ext 237
fax : 562.989.4040

<< File: 57931TCLP.xls >> << File: 58001TCLP.xls >> << File: 58021TCLP.xls >> << File: 58022TCLP.xls >> << File: 58023TCLP.xls >> << File: 58024TCLP.xls >> << File: 58049TCLP.xls >> << File: 58050TCLP.xls >> << File: 58052TCLP.xls >> << File: 58053TCLP.xls >> << File: 58065TCLP.xls >> << File: 58066TCLP.xls >> << File: 58067TCLP.xls >> << File: 58068TCLP.xls >> << File: 58069TCLP.xls >>

569-404-0	2. STLC	170
569-402-0	2. STLC	130
569-406-0	2. STLC	120
569-515-0	2. STLC	110
569-611-0	2. STLC	100
569-409-0	2. STLC	94
569-603-0	2. STLC	93
569-104-0.6	2. STLC	91
569-807-0	2. STLC	86
569-608-0	2. STLC	86
569-501-0	2. STLC	84
569-710-0.3	2. STLC	83
569-808-0	2. STLC	83
569-609-0.6	2. STLC	80
569-803-0	2. STLC	79
569-105-0	2. STLC	78
569-512-0	2. STLC	77
569-513-0	2. STLC	77
569-302-0	2. STLC	74
569-805-0	2. STLC	73
569-517-0	2. STLC	71
569-704-0.3	2. STLC	71
569-703-0.6	2. STLC	70
569-514-0.3	2. STLC	70
569-803-0.3	2. STLC	69
569-409-0.6	2. STLC	69
569-411-0	2. STLC	68
569-102-0.6	2. STLC	68
569-809-0	2. STLC	65
569-605-0	2. STLC	65
569-711-0.6	2. STLC	62
569-806-0	2. STLC	60
569-802-0.3	2. STLC	60
569-410-0	2. STLC	59
569-501-0.6	2. STLC	59
569-808-0.3	2. STLC	58
569-104-0	2. STLC	56
569-804-0	2. STLC	54
569-610-0	2. STLC	54
569-608-0.3	2. STLC	53
569-213-0	2. STLC	49
569-701-0	2. STLC	47
569-311-0	2. STLC	47
569-609-0.9	2. STLC	46
569-513-0.3	2. STLC	45
569-801-0.6	2. STLC	44
569-514-0	2. STLC	42
569-805-0.6	2. STLC	42
569-408-1.5	2. STLC	42
569-807-0.3	2. STLC	40
569-204-0	2. STLC	40
569-517-0.3	2. STLC	36
569-518-0	2. STLC	36
569-806-0.3	2. STLC	36
569-705-1.5	2. STLC	35
569-303-0.6	2. STLC	34
569-516-0.3	2. STLC	33
569-705-0.6	2. STLC	33
569-802-0	2. STLC	33
569-515-0.6	2. STLC	32
569-704-0	2. STLC	32
569-401-0.3	2. STLC	32
569-207-0	2. STLC	32
569-608-0.6	2. STLC	31
569-104-0.3	2. STLC	31
569-201-0.6	2. STLC	30
569-515-0.3	2. STLC	28
569-212-0.6	2. STLC	28
569-103-0	2. STLC	28
569-313-0	2. STLC	27
569-103-0.3	2. STLC	26
569-705-0.9	2. STLC	25
569-707-0.3	2. STLC	25
569-515-1.5	2. STLC	24
569-508-0	2. STLC	24
569-801-0	2. STLC	24
569-402-0.6	2. STLC	24
569-516-0.6	2. STLC	22
569-509-0.3	2. STLC	22
569-106-0	2. STLC	22
569-106-0.3	2. STLC	22
569-202-0	2. STLC	21
569-805-1.5	2. STLC	21
569-205-0	2. STLC	20
569-707-0	2. STLC	19

570-515-0.3	2. STLC	120
570-811-0	2. STLC	110
570-114-0.0	2. STLC	110
570-504-0.6	2. STLC	100
570-811-1.5	2. STLC	90
570-615-0.6	2. STLC	84
570-305-0	2. STLC	79
570-314-0.6	2. STLC	76
570-505-0.6	2. STLC	75
570-208-0.6	2. STLC	74
570-116-0.0	2. STLC	73
570-102-0	2. STLC	65
570-804-0.6	2. STLC	64
570-704-0	2. STLC	63
570-508-0.6	2. STLC	60
570-706-0.3	2. STLC	60
570-303-0	2. STLC	58
570-311-1.5	2. STLC	58
570-117-0.0	2. STLC	58
570-208-0.3	2. STLC	58
570-709-0.6	2. STLC	57
570-703-0	2. STLC	55
570-206-0	2. STLC	54
570-301-0	2. STLC	53
570-603-0.3	2. STLC	46
570-711-0.6	2. STLC	46
570-206-0.3	2. STLC	45
570-103-0	2. STLC	44
570-602-0	2. STLC	41
570-209-0	2. STLC	40
570-210-0	2. STLC	40
570-117-0.3	2. STLC	39
570-103-0.6	2. STLC	37
570-110-0.6	2. STLC	37
570-805-0.9	2. STLC	36
570-112-1.5	2. STLC	35
570-614-0	2. STLC	34
570-713-0.3	2. STLC	33
570-513-0	2. STLC	32
570-312-0.3	2. STLC	31
570-503-0.6	2. STLC	31
570-510-0.6	2. STLC	31
570-202-0	2. STLC	31
570-207-0	2. STLC	31
570-209-0.3	2. STLC	31
570-703-0.3	2. STLC	30
570-401-0	2. STLC	30
570-610-0.9	2. STLC	29
570-809-0.6	2. STLC	29
570-509-0.9	2. STLC	29
570-210-0.6	2. STLC	29
570-211-0	2. STLC	29
570-603-0	2. STLC	28
570-119-0	2. STLC	28
570-713-0.6	2. STLC	28
570-108-0	2. STLC	27
570-708-0.6	2. STLC	27
570-224-0	2. STLC	26
570-601-0	2. STLC	26
570-710-0.6	2. STLC	26
570-614-0.6	2. STLC	26
570-118-0.3	2. STLC	26
570-304-0	2. STLC	25
570-707-0.6	2. STLC	25
570-510-0	2. STLC	25
570-110-0	2. STLC	24
570-223-0	2. STLC	24
570-117-0.6	2. STLC	24
570-616-0	2. STLC	23
570-704-0.3	2. STLC	22
570-513-0.6	2. STLC	22
570-221-0.0	2. STLC	22
570-617-0	2. STLC	21
570-214-0.3	2. STLC	21
570-122-0.9	2. STLC	20
570-313-0.6	2. STLC	19
570-207-0.6	2. STLC	19
570-120-0.9	2. STLC	18
570-506-0	2. STLC	18
570-102-0.9	2. STLC	17
570-216-0	2. STLC	17
570-225-0	2. STLC	17
570-304-0.3	2. STLC	17
570-409-0	2. STLC	17
570-713-0	2. STLC	17

571-521-0	2. STLC	230
571-324-0.9	2. STLC	110
571-818-0	2. STLC	110
571-819-0.6	2. STLC	110
571-708-0	2. STLC	110
571-103-0.6	2. STLC	110
571-617-0.3	2. STLC	100
571-611-0.6	2. STLC	92
571-712-0.9	2. STLC	81
571-105-0.6	2. STLC	81
571-313-0	2. STLC	79
571-508-0	2. STLC	73
571-518-0.3	2. STLC	73
571-217-0	2. STLC	68
571-516-0	2. STLC	66
571-701-0.3	2. STLC	66
571-710-0.6	2. STLC	65
571-512-0	2. STLC	64
571-308-0.9	2. STLC	61
571-701-0	2. STLC	61
571-514-0.3	2. STLC	59
571-415-0	2. STLC	58
571-616-0.6	2. STLC	57
571-517-0	2. STLC	56
571-112-0.9	2. STLC	56
571-214-0	2. STLC	55
571-415-0.3	2. STLC	55
571-405-0.6	2. STLC	55
571-530-0	2. STLC	55
571-831-0	2. STLC	53
571-709-0	2. STLC	53
571-103-0.0	2. STLC	52
571-312-0	2. STLC	51
571-526-0	2. STLC	51
571-819-1.5	2. STLC	51
571-515-0	2. STLC	50
571-833-0	2. STLC	49
571-815-0.6	2. STLC	47
571-517-0.3	2. STLC	46
571-610-0	2. STLC	46
571-413-0	2. STLC	46
571-815-0	2. STLC	45
571-514-0.9	2. STLC	44
571-505-1.5	2. STLC	44
571-528-0	2. STLC	44
571-610-0.6	2. STLC	43
571-629-0	2. STLC	43
571-604-0	2. STLC	42
571-213-0	2. STLC	41
571-812-0	2. STLC	41
571-706-0	2. STLC	41
571-530-0.6	2. STLC	41
571-305-0	2. STLC	40
571-523-0.3	2. STLC	39
571-510-0	2. STLC	39
571-305-0.9	2. STLC	39
571-818-1.5	2. STLC	39
571-703-0	2. STLC	38
571-520-0.3	2. STLC	36
571-216-0	2. STLC	34
571-827-0	2. STLC	34
571-708-0.3	2. STLC	34
571-514-0.6	2. STLC	33
571-528-1.5	2. STLC	33
571-803-0	2. STLC	33
571-414-0.3	2. STLC	33
571-813-0.3	2. STLC	32
571-523-0	2. STLC	31
571-326-0	2. STLC	31
571-502-0.6	2. STLC	31
571-624-1.5	2. STLC	31
571-330-0	2. STLC	31
571-512-0.3	2. STLC	30
571-521-0.6	2. STLC	29
571-706-0.3	2. STLC	29
571-814-0.6	2. STLC	28
571-616-1.5	2. STLC	28
571-835-0	2. STLC	28
571-811-0.3	2. STLC	28
571-101-0.6	2. STLC	28
571-112-0	2. STLC	28
571-315-0	2. STLC	27
571-622-0	2. STLC	27
571-607-0.6	2. STLC	27
571-609-0.6	2. STLC	27

569-709-0	2. STLC	19
569-202-0.3	2. STLC	19
569-602-0	2. STLC	19
569-207-0.3	2. STLC	19
569-706-0.3	2. STLC	17
569-807-0.9	2. STLC	17
569-104-0.9	2. STLC	17
569-505-0.6	2. STLC	17
569-704-0.6	2. STLC	16
569-808-0.6	2. STLC	16
569-212-0.3	2. STLC	16
569-612-0	2. STLC	16
569-704-1.5	2. STLC	15
569-411-0.3	2. STLC	15
569-113-0	2. STLC	15
569-807-0.6	2. STLC	14
569-311-0.3	2. STLC	12
569-312-0	2. STLC	10
569-311-0.9	2. STLC	8.3

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570-401-0.3	2. STLC	17
570-616-0.6	2. STLC	17
570-308-0	2. STLC	16
570-807-0.9	2. STLC	16
570-701-0.6	2. STLC	16
570-617-0.3	2. STLC	16
570-107-0.6	2. STLC	15
570-811-0.6	2. STLC	15
570-707-0	2. STLC	15
570-518-0	2. STLC	15
570-111-0.0	2. STLC	15
570-109-0.6	2. STLC	14
570-401-0.9	2. STLC	4.1
570-408-0	2. STLC	4
570-409-0.3	2. STLC	3
570-401-0.6		0
570-401-1.5		0
570-408-0.6		0
570-408-1.5		0

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571-837-0.3	2. STLC	27
571-520-0	2. STLC	26
571-516-0.3	2. STLC	26
571-420-0	2. STLC	26
571-102-0.6	2. STLC	26
571-517-1.5	2. STLC	25
571-513-0.6	2. STLC	25
571-623-0.6	2. STLC	25
571-112-0.3	2. STLC	25
571-326-0.6	2. STLC	24
571-619-0.3	2. STLC	24
571-619-0.9	2. STLC	24
571-528-0.3	2. STLC	24
571-706-0.6	2. STLC	24
571-112-0.6	2. STLC	24
571-327-0.6	2. STLC	23
571-817-0	2. STLC	23
571-425-0.6	2. STLC	22
571-118-0	2. STLC	22
571-829-0	2. STLC	22
571-828-0	2. STLC	22
571-122-0	2. STLC	21
571-101-1.5	2. STLC	21
571-530-0.3	2. STLC	21
571-406-0.6	2. STLC	20
571-517-0.6	2. STLC	20
571-835-0.3	2. STLC	20
571-501-0	2. STLC	20
571-518-0.9	2. STLC	19
571-510-0.3	2. STLC	19
571-814-0.9	2. STLC	19
571-522-0.6	2. STLC	19
571-622-1.5	2. STLC	19
571-812-0.6	2. STLC	19
571-701-0.6	2. STLC	19
571-704-0	2. STLC	19
571-711-0.6	2. STLC	19
571-212-0	2. STLC	18
571-839-0.6	2. STLC	18
571-610-1.5	2. STLC	18
571-709-0.3	2. STLC	18
571-311-0.6	2. STLC	17
571-620-0	2. STLC	17
571-109-0	2. STLC	17
571-704-0.3	2. STLC	17
571-207-1.5	2. STLC	16
571-203-0	2. STLC	16
571-616-0.3	2. STLC	16
571-317-0.3	2. STLC	16
571-629-0.3	2. STLC	16
571-416-0	2. STLC	15
571-419-0	2. STLC	15
571-526-0.3	2. STLC	15
571-619-0	2. STLC	15
571-606-0	2. STLC	15
571-115-0.6	2. STLC	14
571-202-0.9	2. STLC	11

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tblTEMP

WorkOrder	ClientSampID	TestNo	Analyte	PQL	DF	CollectionDate	AnalDate	PrepDate
057935	570-101-0	EPA 1311/7420	Lead	0.2	1	7/15/2002	8/6/2002	8/5/2002
057935	570-101-0	EPA 6010B	Antimony	2.5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-101-0	EPA 6010B	Arsenic	2.5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-101-0	EPA 6010B	Barium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-101-0	EPA 6010B	Beryllium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-101-0	EPA 6010B	Cadmium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-101-0	EPA 6010B	Chromium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-101-0	EPA 6010B	Cobalt	1.5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-101-0	EPA 6010B	Copper	1.5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-101-0	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057935	570-101-0	EPA 6010B	Molybdenum	2.5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-101-0	EPA 6010B	Nickel	1.5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-101-0	EPA 6010B	Selenium	2.5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-101-0	EPA 6010B	Silver	1.5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-101-0	EPA 6010B	Thallium	2.5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-101-0	EPA 6010B	Vanadium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-101-0	EPA 6010B	Zinc	5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-101-0	EPA 7471A	Mercury	0.1	1	7/15/2002	8/9/2002	8/7/2002
057935	570-101-0.3	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057935	570-101-0.6	EPA 1311/7420	Lead	0.2	1	7/15/2002	8/6/2002	8/5/2002
057935	570-101-0.6	EPA 6010B	Antimony	2.5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-101-0.6	EPA 6010B	Arsenic	2.5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-101-0.6	EPA 6010B	Barium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-101-0.6	EPA 6010B	Beryllium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-101-0.6	EPA 6010B	Cadmium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-101-0.6	EPA 6010B	Chromium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-101-0.6	EPA 6010B	Cobalt	1.5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-101-0.6	EPA 6010B	Copper	1.5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-101-0.6	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057935	570-101-0.6	EPA 6010B	Molybdenum	2.5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-101-0.6	EPA 6010B	Nickel	1.5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-101-0.6	EPA 6010B	Selenium	2.5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-101-0.6	EPA 6010B	Silver	1.5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-101-0.6	EPA 6010B	Thallium	2.5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-101-0.6	EPA 6010B	Vanadium	1.5	10	7/15/2002	8/10/2002	8/9/2002

057935	570-101-0.6	EPA 6010B	Zinc	5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-101-0.6	EPA 7471A	Mercury	0.1	1	7/15/2002	8/9/2002	8/7/2002
057935	570-101-0.6	EPA 9045C	pH	0.1	1	7/15/2002	7/19/2002	7/19/2002
057935	570-101-0.9	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057935	570-101-0.9	WET/ EPA 7420	Lead	0.2	1	7/15/2002	7/25/2002	7/22/2002
057935	570-101-1.5	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057935	570-102-0	EPA 1311/ 7420	Lead	0.2	1	7/15/2002	8/14/2002	8/13/2002
057935	570-102-0	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057935	570-102-0	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/1/2002	7/29/2002
057935	570-102-0	WET/ EPA 7420	Lead	4	20	7/15/2002	7/25/2002	7/22/2002
057935	570-102-0.3	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057935	570-102-0.6	EPA 1311/ 7420	Lead	0.2	1	7/15/2002	8/6/2002	8/5/2002
057935	570-102-0.6	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057935	570-102-0.9	EPA 1311/ 7420	Lead	0.2	1	7/15/2002	8/14/2002	8/13/2002
057935	570-102-0.9	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057935	570-102-0.9	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/1/2002	7/29/2002
057935	570-102-0.9	WET/ EPA 7420	Lead	0.4	2	7/15/2002	7/25/2002	7/22/2002
057935	570-102-1.5	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057935	570-102-1.5	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/1/2002	7/29/2002
057935	570-102-1.5	WET/ EPA 7420	Lead	0.2	1	7/15/2002	7/25/2002	7/22/2002
057935	570-103-0	EPA 1311/ 7420	Lead	0.2	1	7/15/2002	8/14/2002	8/13/2002
057935	570-103-0	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057935	570-103-0	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/1/2002	7/29/2002
057935	570-103-0	WET/ EPA 7420	Lead	1.6	8	7/15/2002	7/25/2002	7/22/2002
057935	570-103-0.3	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057935	570-103-0.6	EPA 1311/ 7420	Lead	0.2	1	7/15/2002	8/14/2002	8/13/2002
057935	570-103-0.6	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057935	570-103-0.6	EPA 9045C	pH	0.1	1	7/15/2002	7/19/2002	7/19/2002
057935	570-103-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/1/2002	7/29/2002
057935	570-103-0.6	WET/ EPA 7420	Lead	0.8	4	7/15/2002	7/25/2002	7/22/2002
057935	570-103-0.9	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057935	570-103-1.5	EPA 1311/ 7420	Lead	0.2	1	7/15/2002	8/6/2002	8/5/2002
057935	570-103-1.5	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057935	570-104-0	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057935	570-104-0.3	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057935	570-104-0.3	WET/ EPA 7420	Lead	0.2	1	7/15/2002	7/25/2002	7/22/2002

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057935	570-104-0.6	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057935	570-104-0.6	WET/ EPA 7420	Lead	0.2	1	7/15/2002	7/25/2002	7/22/2002
057935	570-104-0.9	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057935	570-104-1.5	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057935	570-104-1.5	WET/ EPA 7420	Lead	0.2	1	7/15/2002	7/25/2002	7/22/2002
057935	570-105-0	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057935	570-105-0	EPA 9045C	pH	0.1	1	7/15/2002	7/19/2002	7/19/2002
057935	570-105-0	WET/ EPA 7420	Lead	0.2	1	7/15/2002	7/25/2002	7/22/2002
057935	570-105-0.3	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057935	570-105-0.6	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057935	570-105-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/1/2002	7/29/2002
057935	570-105-0.6	WET/ EPA 7420	Lead	0.2	1	7/15/2002	7/25/2002	7/22/2002
057935	570-106-0	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057935	570-106-0	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/1/2002	7/29/2002
057935	570-106-0	WET/ EPA 7420	Lead	0.2	1	7/15/2002	7/25/2002	7/22/2002
057935	570-106-0.3	EPA 6010B	Antimony	2.5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-106-0.3	EPA 6010B	Arsenic	2.5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-106-0.3	EPA 6010B	Barium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-106-0.3	EPA 6010B	Beryllium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-106-0.3	EPA 6010B	Cadmium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-106-0.3	EPA 6010B	Chromium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-106-0.3	EPA 6010B	Cobalt	1.5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-106-0.3	EPA 6010B	Copper	1.5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-106-0.3	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057935	570-106-0.3	EPA 6010B	Molybdenum	2.5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-106-0.3	EPA 6010B	Nickel	1.5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-106-0.3	EPA 6010B	Selenium	2.5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-106-0.3	EPA 6010B	Silver	1.5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-106-0.3	EPA 6010B	Thallium	2.5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-106-0.3	EPA 6010B	Vanadium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-106-0.3	EPA 6010B	Zinc	5	10	7/15/2002	8/10/2002	8/9/2002
057935	570-106-0.3	EPA 7471A	Mercury	0.1	1	7/15/2002	8/9/2002	8/7/2002
057935	570-106-0.6	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057935	570-106-0.9	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057935	570-106-1.5	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057935	570-107-0	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002

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057935	570-107-0	EPA 9045C	pH	0.1	1	7/15/2002	7/19/2002	7/19/2002
057935	570-107-0.3	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057935	570-107-0.6	EPA 1311/ 7420	Lead	0.2	1	7/15/2002	8/14/2002	8/13/2002
057935	570-107-0.6	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057935	570-107-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/1/2002	7/29/2002
057935	570-107-0.6	WET/ EPA 7420	Lead	0.4	2	7/15/2002	7/25/2002	7/22/2002
057935	570-107-0.9	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057935	570-107-1.5	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057935	570-108-0	EPA 1311/ 7420	Lead	0.2	1	7/15/2002	8/14/2002	8/13/2002
057935	570-108-0	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057935	570-108-0	EPA 9045C	pH	0.1	1	7/15/2002	7/19/2002	7/19/2002
057935	570-108-0	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/1/2002	7/29/2002
057935	570-108-0	WET/ EPA 7420	Lead	0.8	4	7/15/2002	7/25/2002	7/22/2002
057935	570-108-0.3	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057935	570-108-0.6	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057935	570-108-0.9	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057935	570-108-1.5	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057935	570-108-1.5	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/1/2002	7/29/2002
057935	570-108-1.5	WET/ EPA 7420	Lead	0.2	1	7/15/2002	7/25/2002	7/22/2002
057935	570-109-0	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057935	570-109-0.3	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057935	570-109-0.6	EPA 1311/ 7420	Lead	0.2	1	7/15/2002	8/14/2002	8/13/2002
057935	570-109-0.6	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057935	570-109-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/1/2002	7/29/2002
057935	570-109-0.6	WET/ EPA 7420	Lead	0.4	2	7/15/2002	7/25/2002	7/22/2002
057935	570-109-0.9	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057935	570-109-1.5	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057935	EB-4	EPA 6010B	Lead	0.005	1		7/18/2002	7/17/2002

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

August 19, 2002

David Shaler
Ninyo & Moore
475 Goddard Suite 200
Irvine, CA 92618
TEL: (949) 753-7070
FAX: (949) 753-7071

ELAP No.: 1838
NELAP No.: 02107CA
Workorder No.: 057934

RE: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

Attention: David Shaler

Enclosed are the results for sample(s) received on July 15, 2002 by Advanced Technology Laboratories and tested for the parameters indicated in the enclosed chain of custody.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

RECEIVED
AUG 2 6 2002
NINYO & MOORE
ORANGE COUNTY OFFICE

This cover letter is an integral part of this analytical report.

Laboratory	Site	Consultant
Advanced Technology Laboratories	Caltrans/I-10 (605-57)/Lead Survey	Ninyo & Moore - David Shaler/Steve Reese
3275 Walnut Avenue, Signal Hill, CA 90807	TO 07-117070-PX	475 Goddard, Suite 200, Irvine, CA 92618
Tel. (562) 989-4045 Fax (562) 989-6348	Project # 203939001	Tel. (949) 753-7070 Fax (949) 753-7071

Special Instructions
See Project specifications. 5 Day TAT.

Relinquished by: (name/date/time) [signature] 7-15-02	Received by: (name/date/time) [signature] 07-15-02
Relinquished by: (name/date/time) [signature] 7-15-02 6:40p	Received by: (name/date/time) [signature] 7/15/02 6:35pm

Lab No	Sample I.D	Date	Time	Sample container P=plastic B=brass	Analyses: Total Lead EPA Method 6010	Analyses: pH EPA Method 9045
	EB-3	7/15/02	~~11:05~~ RC	B	X	
	570-118-0.0		RC ~~11:15~~ 11:05	B	X	
	570-118-0.3		~~11:30~~ 11:15	B	X	
	570-118-0.6		RC 11:30	B	X	
	570-118-0.9		11:45	B	X	
	570-117-0.0		12:02	B	X	
	570-117-0.3		12:07	B	X	
	570-117-0.6		12:30	B	X	
	570-116-0.0		12:36	B	X	X
	570-115-0.0		13:25	B	X	
	570-115-0.3		13:30	P	X	
	570-115-0.6		13:35	P	X	
	570-114-0.0		13:50	P	X	
	570-114-0.3		14:00	P	X	
	570-114-0.6		14:05	P	X	
	570-114-0.9		14:10	P	X	
	570-114-1.5		14:13	P	X	
	570-113-0.0		14:20	P	X	
	570-113-0.3		14:25	P	X	X
	570-113-0.6		14:35	P	X	
	570-112-0.0		14:50	P	X	
	570-112-0.3		14:55	P	X	
	570-112-0.6		15:00	P	X	
	570-112-0.9		15:03	P	X	
	570-112-1.5		15:12	P	X	
	570-111-0.0		15:30	P	X	
	570-111-0.3	15:35	RC ~~15:35~~	P	X	
	570-111-0.6		15:40	P	X	
	570-				X	~~X~~
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
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	570-				X	
	570-				X	
	570-				X	

Total # of samples: 28

Advanced Technology Laboratories

Date: *22-Jul-02*

CLIENT: Ninyo & Moore
Lab Order: 057934
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Lab ID: 057934-001A

Client Sample ID: EB-3
Collection Date: 7/15/2002
Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
LEAD BY ICP	**(EPA 3010A)**			**EPA 6010B**		
RunID: ICP2_020718A	QC Batch: 9623					Analyst: **RQ**
Lead	ND	0.0050		mg/L	1	7/18/2002

Qualifiers:

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J - Analyte detected below quantitation limits
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H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: 7/22/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057934
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/15/2002 6:36:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057934-002A	570-118-0.0	99	mg/Kg	9603	5	1	7/15/2002	7/18/2002
057934-003A	570-118-0.3	370	mg/Kg	9603	5	1	7/15/2002	7/18/2002
057934-004A	570-118-0.6	240	mg/Kg	9603	5	1	7/15/2002	7/18/2002
057934-005A	570-118-0.9	43	mg/Kg	9603	5	1	7/15/2002	7/18/2002
057934-006A	570-117-0.0	810	mg/Kg	9603	5	1	7/15/2002	7/18/2002
057934-007A	570-117-0.3	400	mg/Kg	9603	5	1	7/15/2002	7/18/2002
057934-008A	570-117-0.6	330	mg/Kg	9603	5	1	7/15/2002	7/18/2002
057934-009A	570-116-0.0	840	mg/Kg	9603	5	1	7/15/2002	7/18/2002
057934-010A	570-115-0.0	1200	mg/Kg	9604	5	1	7/15/2002	7/18/2002
057934-011A	570-115-0.3	20	mg/Kg	9604	5	1	7/15/2002	7/18/2002
057934-012A	570-115-0.6	890	mg/Kg	9604	5	1	7/15/2002	7/18/2002

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Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: 7/22/2002

LEAD BY ICP
EPA 6010B

CLIENT: Ninyo & Moore
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Project No:
PO No:

Lab Order: 057934
Date Received: 7/15/2002 6:36:0
Matrix: Soil
Analyst: RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057934-013A	570-114-0.0	410	mg/Kg	9604	5	1	7/15/2002	7/18/2002
057934-014A	570-114-0.3	19	mg/Kg	9604	5	1	7/15/2002	7/18/2002
057934-015A	570-114-0.6	1100	mg/Kg	9604	5	1	7/15/2002	7/18/2002
057934-016A	570-114-0.9	9.5	mg/Kg	9604	5	1	7/15/2002	7/18/2002
057934-017A	570-114-1.5	10	mg/Kg	9604	5	1	7/15/2002	7/18/2002
057934-018A	570-113-0.0	12	mg/Kg	9604	5	1	7/15/2002	7/18/2002
057934-019A	570-113-0.3	1000	mg/Kg	9604	5	1	7/15/2002	7/18/2002
057934-020A	570-113-0.6	36	mg/Kg	9604	5	1	7/15/2002	7/18/2002
057934-021A	570-112-0.0	63	mg/Kg	9604	5	1	7/15/2002	7/18/2002
057934-022A	570-112-0.3	92	mg/Kg	9604	5	1	7/15/2002	7/18/2002
057934-023A	570-112-0.6	40	mg/Kg	9604	5	1	7/15/2002	7/18/2002

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Advanced Technology Laboratories

Date: 7/22/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057934
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/15/2002 6:36:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057934-024A	570-112-0.9	22	mg/Kg	9604	5	1	7/15/2002	7/18/2002
057934-025A	570-112-1.5	570	mg/Kg	9604	5	1	7/15/2002	7/18/2002
057934-026A	570-111-0.0	66	mg/Kg	9604	5	1	7/15/2002	7/18/2002
057934-027A	570-111-0.3	180	mg/Kg	9604	5	1	7/15/2002	7/18/2002
057934-028A	570-111-0.6	8.0	mg/Kg	9604	5	1	7/15/2002	7/18/2002

Qualifiers:

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J - Analyte detected below quantitation limits
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Advanced Technology Laboratories

Date: 7/22/2002

pH
EPA 9045C

CLIENT:	Ninyo & Moore	**Lab Order:**	057934
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/15/2002 6:36:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057934-009A	570-116-0.0	6.18	pH Units	R19556	0.1	1	7/15/2002	7/19/2002
057934-019A	570-113-0.3	7.27	pH Units	R19556	0.1	1	7/15/2002	7/19/2002

Qualifiers:

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DO - Surrogate Diluted Out
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E - Value above quantitation range
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Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: 7/29/2002

LEAD BY ATOMIC ABSORPTION
WET/ EPA 7420

CLIENT:	Ninyo & Moore	**Lab Order:**	057934
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/15/2002 6:36:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057934-002A	570-118-0.0	6.0	mg/L	9750	0.2	1	7/15/2002	7/25/2002
057934-003A	570-118-0.3	26	mg/L	9750	0.8	4	7/15/2002	7/25/2002
057934-004A	570-118-0.6	14	mg/L	9750	0.4	2	7/15/2002	7/25/2002
057934-006A	570-117-0.0	58	mg/L	9750	2	10	7/15/2002	7/25/2002
057934-007A	570-117-0.3	39	mg/L	9750	0.8	4	7/15/2002	7/25/2002
057934-008A	570-117-0.6	24	mg/L	9750	0.8	4	7/15/2002	7/25/2002
057934-009A	570-116-0.0	73	mg/L	9750	2	10	7/15/2002	7/25/2002
057934-012A	570-115-0.6	13	mg/L	9750	0.4	2	7/15/2002	7/25/2002
057934-013A	570-114-0.0	110	mg/L	9750	4	20	7/15/2002	7/25/2002
057934-021A	570-112-0.0	2.9	mg/L	9750	0.2	1	7/15/2002	7/25/2002
057934-022A	570-112-0.3	6.7	mg/L	9750	0.2	1	7/15/2002	7/25/2002

Qualifiers:

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Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: 7/29/2002

LEAD BY ATOMIC ABSORPTION
WET/ EPA 7420

CLIENT: Ninyo & Moore
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Project No:
PO No:

Lab Order: 057934
Date Received: 7/15/2002 6:36:0
Matrix: Soil
Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057934-025A	570-112-1.5	35	mg/L	9750	0.8	4	7/15/2002	7/25/2002
057934-026A	570-111-0.0	15	mg/L	9750	0.4	2	7/15/2002	7/25/2002
057934-027A	570-111-0.3	8.8	mg/L	9750	0.2	1	7/15/2002	7/25/2002

Qualifiers:
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3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: 8/2/2002

LEAD BY ATOMIC ABSORPTION
WET DI/ EPA 7420

CLIENT:	Ninyo & Moore	**Lab Order:**	057934
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/15/2002 6:36:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057934-002A	570-118-0.0	ND	mg/L	9942	0.2	1	7/15/2002	8/1/2002
057934-003A	570-118-0.3	1.1	mg/L	9942	0.2	1	7/15/2002	8/1/2002
057934-004A	570-118-0.6	0.38	mg/L	9942	0.2	1	7/15/2002	8/1/2002
057934-006A	570-117-0.0	0.79	mg/L	9942	0.2	1	7/15/2002	8/1/2002
057934-007A	570-117-0.3	1.0	mg/L	9942	0.2	1	7/15/2002	8/1/2002
057934-008A	570-117-0.6	0.65	mg/L	9942	0.2	1	7/15/2002	8/1/2002
057934-009A	570-116-0.0	1.1	mg/L	9942	0.2	1	7/15/2002	8/1/2002
057934-012A	570-115-0.6	0.38	mg/L	9942	0.2	1	7/15/2002	8/1/2002
057934-013A	570-114-0.0	1.3	mg/L	9942	0.2	1	7/15/2002	8/1/2002
057934-022A	570-112-0.3	ND	mg/L	9942	0.2	1	7/15/2002	8/1/2002
057934-025A	570-112-1.5	ND	mg/L	9942	0.2	1	7/15/2002	8/1/2002

Qualifiers:

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Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: 8/2/2002

LEAD BY ATOMIC ABSORPTION
WET DI/ EPA 7420

CLIENT: Ninyo & Moore
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Project No:
PO No:

Lab Order: 057934
Date Received: 7/15/2002 6:36:0
Matrix: Soil
Analyst: NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057934-026A	570-111-0.0	ND	mg/L	9942	0.2	1	7/15/2002	8/1/2002
057934-027A	570-111-0.3	ND	mg/L	9942	0.2	1	7/15/2002	8/1/2002

Qualifiers:
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Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *13-Aug-02*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	570-115-0.3
Lab Order:	057934		
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Collection Date:**	7/15/2002 1:30:00 PM
Lab ID:	057934-011A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS						
	(EPA 3050A)			**EPA 6010B**		
RunID: ICP2_020810B	QC Batch: 10209					Analyst: **RQ**
Antimony	ND	2.5		mg/Kg	10	8/10/2002
Arsenic	5.0	2.5		mg/Kg	10	8/10/2002
Barium	75	1.5		mg/Kg	10	8/10/2002
Beryllium	ND	1.5		mg/Kg	10	8/10/2002
Cadmium	ND	1.5		mg/Kg	10	8/10/2002
Chromium	5.0	1.5		mg/Kg	10	8/10/2002
Cobalt	5.0	1.5		mg/Kg	10	8/10/2002
Copper	5.0	1.5		mg/Kg	10	8/10/2002
Molybdenum	ND	2.5		mg/Kg	10	8/10/2002
Nickel	10	1.5		mg/Kg	10	8/10/2002
Selenium	ND	2.5		mg/Kg	10	8/10/2002
Silver	ND	1.5		mg/Kg	10	8/10/2002
Thallium	2.6	2.5		mg/Kg	10	8/10/2002
Vanadium	30	1.5		mg/Kg	10	8/10/2002
Zinc	40	5.0		mg/Kg	10	8/10/2002
MERCURY BY COLD VAPOR TECHNIQUE						
	(EPA 7471)			**EPA 7471A**		
RunID: AA1_020809A	QC Batch: 10164					Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1	8/9/2002

Qualifiers:

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Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *13-Aug-02*

CLIENT: Ninyo & Moore
Lab Order: 057934
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Lab ID: 057934-028A

Client Sample ID: 570-111-0.6
Collection Date: 7/15/2002 3:40:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS (EPA 3050A)				EPA 6010B		
RunID: ICP2_020810B	QC Batch: 10209					Analyst: **RQ**
Antimony	ND	2.5		mg/Kg	10	8/10/2002
Arsenic	15	2.5		mg/Kg	10	8/10/2002
Barium	220	1.5		mg/Kg	10	8/10/2002
Beryllium	ND	1.5		mg/Kg	10	8/10/2002
Cadmium	ND	1.5		mg/Kg	10	8/10/2002
Chromium	20	1.5		mg/Kg	10	8/10/2002
Cobalt	15	1.5		mg/Kg	10	8/10/2002
Copper	40	1.5		mg/Kg	10	8/10/2002
Molybdenum	ND	2.5		mg/Kg	10	8/10/2002
Nickel	20	1.5		mg/Kg	10	8/10/2002
Selenium	ND	2.5		mg/Kg	10	8/10/2002
Silver	ND	1.5		mg/Kg	10	8/10/2002
Thallium	4.9	2.5		mg/Kg	10	8/10/2002
Vanadium	70	1.5		mg/Kg	10	8/10/2002
Zinc	90	5.0		mg/Kg	10	8/10/2002
MERCURY BY COLD VAPOR TECHNIQUE (EPA 7471)				EPA 7471A		
RunID: AA1_020809A	QC Batch: 10164					Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1	8/9/2002

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S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: 8/19/2002

LEAD BY ATOMIC ABSORPTION
EPA 1311/ 7420

CLIENT:	Ninyo & Moore	**Lab Order:**	057934
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/15/2002 6:36:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057934-003A	570-118-0.3	1.5	mg/L	10352	0.2	1	7/15/2002	8/14/2002
057934-006A	570-117-0.0	2.5	mg/L	10398	0.2	1	7/15/2002	8/16/2002
057934-007A	570-117-0.3	1.4	mg/L	10352	0.2	1	7/15/2002	8/14/2002
057934-008A	570-117-0.6	0.72	mg/L	10352	0.2	1	7/15/2002	8/14/2002
057934-009A	570-116-0.0	1.6	mg/L	10352	0.2	1	7/15/2002	8/14/2002
057934-010A	570-115-0.0	0.85	mg/L	10086	0.2	1	7/15/2002	8/6/2002
057934-013A	570-114-0.0	0.52	mg/L	10352	0.2	1	7/15/2002	8/14/2002
057934-015A	570-114-0.6	1.5	mg/L	10086	0.2	1	7/15/2002	8/6/2002
057934-019A	570-113-0.3	ND	mg/L	10086	0.2	1	7/15/2002	8/6/2002
057934-025A	570-112-1.5	0.57	mg/L	10352	0.2	1	7/15/2002	8/14/2002
057934-026A	570-111-0.0	0.68	mg/L	10352	0.2	1	7/15/2002	8/14/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: *19-Aug-02*

CLIENT: Ninyo & Moore
Work Order: 057934
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10086

Sample ID: **MB-10086** SampType: **mblk** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806G**
Client ID: **ZZZZZ** Batch ID: **10086** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314586**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-10076-TCLP** SampType: **mblk** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806G**
Client ID: **ZZZZZ** Batch ID: **10086** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314587**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.07372	0.20									

Sample ID: **LCS-10086** SampType: **lcs** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806G**
Client ID: **ZZZZZ** Batch ID: **10086** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314601**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.172	0.20	1	0	117	80	120	0	0		

Sample ID: **057950-033AMS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806G**
Client ID: **ZZZZZ** Batch ID: **10086** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314599**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	8.972	0.20	2.5	5.811	126	80	120	0	0		S

Sample ID: **057950-033ADUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806G**
Client ID: **ZZZZZ** Batch ID: **10086** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314598**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	6.054	0.20	0	0	0	0	0	5.811	4.09	30	

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Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

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CLIENT: Ninyo & Moore
Work Order: 057934
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10164

Sample ID: MB-10164	SampType: mblk	TestCode: 7471_S	Units: mg/Kg	Prep Date: 8/7/2002	Run ID: AA1_020809A
Client ID: ZZZZZ	Batch ID: 10164	TestNo: EPA 7471A	(EPA 7471)	Analysis Date: 8/9/2002	SeqNo: 316084

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: LCS-10164	SampType: lcs	TestCode: 7471_S	Units: mg/Kg	Prep Date: 8/7/2002	Run ID: AA1_020809A
Client ID: ZZZZZ	Batch ID: 10164	TestNo: EPA 7471A	(EPA 7471)	Analysis Date: 8/9/2002	SeqNo: 316083

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.043	0.10	2.08	0	98.2	80	120	0	0		

Sample ID: 057935-042AMS	SampType: MS	TestCode: 7471_S	Units: mg/Kg	Prep Date: 8/7/2002	Run ID: AA1_020809A
Client ID: ZZZZZ	Batch ID: 10164	TestNo: EPA 7471A	(EPA 7471)	Analysis Date: 8/9/2002	SeqNo: 316081

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.03	0.10	0.83	0.1521	106	62	146	0	0		

Sample ID: 057935-042AMSD	SampType: MSD	TestCode: 7471_S	Units: mg/Kg	Prep Date: 8/7/2002	Run ID: AA1_020809A
Client ID: ZZZZZ	Batch ID: 10164	TestNo: EPA 7471A	(EPA 7471)	Analysis Date: 8/9/2002	SeqNo: 316082

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.9301	0.10	0.83	0.1521	93.7	62	146	1.03	10.2	33	

Sample ID: 057935-042ADUP	SampType: DUP	TestCode: 7471_S	Units: mg/Kg	Prep Date: 8/7/2002	Run ID: AA1_020809A
Client ID: ZZZZZ	Batch ID: 10164	TestNo: EPA 7471A	(EPA 7471)	Analysis Date: 8/9/2002	SeqNo: 316080

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.1234	0.10	0	0	0	0	0	0.1521	20.8	30	

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Calculations are based on raw values
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CLIENT: Ninyo & Moore
Work Order: 057934
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10209

Sample ID: **MB-10209** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/9/2002** Run ID: **ICP2_020810B**
Client ID: **ZZZZZ** Batch ID: **10209** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316560**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.0505	0.25									J
Arsenic	0.1785	0.25									J
Barium	ND	0.15									
Beryllium	0.011	0.15									J
Cadmium	0.0285	0.15									J
Chromium	ND	0.15									
Cobalt	0.038	0.15									J
Copper	ND	0.15									
Molybdenum	0.0045	0.25									J
Nickel	ND	0.15									
Selenium	ND	0.25									
Silver	0.036	0.15									J
Thallium	0.046	0.25									J
Vanadium	ND	0.15									
Zinc	0.037	0.50									J

Sample ID: **LCS-10209** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/9/2002** Run ID: **ICP2_020810B**
Client ID: **ZZZZZ** Batch ID: **10209** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316561**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	46	0.25	50	0	92	80	120	0	0		
Arsenic	47	0.25	50	0	94	80	120	0	0		
Barium	50.5	0.15	50	0	101	80	120	0	0		
Beryllium	46.5	0.15	50	0	93	80	120	0	0		
Cadmium	46	0.15	50	0	92	80	120	0	0		
Chromium	48	0.15	50	0	96	80	120	0	0		
Cobalt	47.5	0.15	50	0	95	80	120	0	0		
Copper	48.5	0.15	50	0	97	80	120	0	0		
Molybdenum	48	0.25	50	0	96	80	120	0	0		
Nickel	46	0.15	50	0	92	80	120	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

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CLIENT: Ninyo & Moore
Work Order: 057934
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10209

Sample ID: **LCS-10209** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/9/2002** Run ID: **ICP2_020810B**
Client ID: **ZZZZZ** Batch ID: **10209** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316561**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	43	0.25	50	0	86	80	120	0	0		
Silver	48.5	0.15	50	0	97	80	120	0	0		
Thallium	48	0.25	50	0	96	80	120	0	0		
Vanadium	48	0.15	50	0	96	80	120	0	0		
Zinc	47	0.50	50	0	94	80	120	0	0		

Sample ID: **057948-004AMS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/9/2002** Run ID: **ICP2_020810B**
Client ID: **ZZZZZ** Batch ID: **10209** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316573**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	65	2.5	125	0.895	51.3	32	115	0	0		
Arsenic	130	2.5	125	10	96	59	111	0	0		
Barium	280	1.5	125	135	116	34	151	0	0		
Beryllium	120	1.5	125	0	96	56	112	0	0		
Cadmium	115	1.5	125	0	92	52	120	0	0		
Chromium	140	1.5	125	15	100	56	118	0	0		
Cobalt	130	1.5	125	10	96	58	117	0	0		
Copper	155	1.5	125	30	100	58	134	0	0		
Molybdenum	115	2.5	125	0.905	91.3	56	115	0	0		
Nickel	135	1.5	125	15	96	52	120	0	0		
Selenium	120	2.5	125	0	96	46	108	0	0		
Silver	125	1.5	125	0.1	99.9	74	117	0	0		
Thallium	125	2.5	125	2.41	98.1	62	117	0	0		
Vanadium	180	1.5	125	55	100	55	122	0	0		
Zinc	260	5.0	125	145	92	43	134	0	0		

Sample ID: **057948-004AMSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/9/2002** Run ID: **ICP2_020810B**
Client ID: **ZZZZZ** Batch ID: **10209** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316574**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; S - Spike/Surrogate outside limits due to matrix interference; B - Analyte detected in the associated Method Blank; DO - Surrogate diluted out; H - Sample exceeded holding time

Calculations are based on raw values

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CLIENT: Ninyo & Moore
Work Order: 057934
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10209

Sample ID: **057948-004AMSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/9/2002** Run ID: **ICP2_020810B**
Client ID: **ZZZZZ** Batch ID: **10209** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316574**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	75	2.5	125	0.895	59.3	32	115	65	14.3	20	
Arsenic	135	2.5	125	10	100	59	111	130	3.77	20	
Barium	265	1.5	125	135	104	34	151	280	5.50	20	
Beryllium	120	1.5	125	0	96	56	112	120	0	20	
Cadmium	115	1.5	125	0	92	52	120	115	0	20	
Chromium	140	1.5	125	15	100	56	118	140	0	20	
Cobalt	130	1.5	125	10	96	58	117	130	0	20	
Copper	160	1.5	125	30	104	58	134	155	3.17	20	
Molybdenum	120	2.5	125	0.905	95.3	56	115	115	4.26	20	
Nickel	140	1.5	125	15	100	52	120	135	3.64	20	
Selenium	125	2.5	125	0	100	46	108	120	4.08	20	
Silver	125	1.5	125	0.1	99.9	74	117	125	0	20	
Thallium	130	2.5	125	2.41	102	62	117	125	3.92	20	
Vanadium	185	1.5	125	55	104	55	122	180	2.74	20	
Zinc	280	5.0	125	145	108	43	134	260	7.41	20	

Sample ID: **057948-004ADUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/9/2002** Run ID: **ICP2_020810B**
Client ID: **ZZZZZ** Batch ID: **10209** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316572**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.13	2.5	0	0	0	0	0	0.895	0	30	J
Arsenic	10	2.5	0	0	0	0	0	10	0	30	
Barium	130	1.5	0	0	0	0	0	135	3.77	30	
Beryllium	ND	1.5	0	0	0	0	0	0	0	30	
Cadmium	ND	1.5	0	0	0	0	0	0	0	30	
Chromium	15	1.5	0	0	0	0	0	15	0	30	
Cobalt	10	1.5	0	0	0	0	0	10	0	30	
Copper	30	1.5	0	0	0	0	0	30	0	30	
Molybdenum	1.19	2.5	0	0	0	0	0	0.905	0	30	J
Nickel	15	1.5	0	0	0	0	0	15	0	30	

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; S - Spike/Surrogate outside limits due to matrix interference; B - Analyte detected in the associated Method Blank; **Calculations are based on raw values**; DO - Surrogate diluted out; H - Sample exceeded holding time

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CLIENT: Ninyo & Moore
Work Order: 057934
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10209

Sample ID: **057948-004ADUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/9/2002** Run ID: **ICP2_020810B**
Client ID: **ZZZZZ** Batch ID: **10209** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316572**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	ND	2.5	0	0	0	0	0	0	0	30	
Silver	0.4	1.5	0	0	0	0	0	0.1	0	30	J
Thallium	1.715	2.5	0	0	0	0	0	2.41	0	30	J
Vanadium	55	1.5	0	0	0	0	0	55	0	30	
Zinc	155	5.0	0	0	0	0	0	145	6.67	30	

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CLIENT: Ninyo & Moore
Work Order: 057934
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10352

Sample ID: **MB-10352** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814R**
Client ID: **ZZZZZ** Batch ID: **10352** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **318952**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-10267-TCLP** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814R**
Client ID: **ZZZZZ** Batch ID: **10352** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **318953**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-10352** SampType: **LCS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814R**
Client ID: **ZZZZZ** Batch ID: **10352** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **318967**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.127	0.20	1	0	113	80	120	0	0		

Sample ID: **057952-049AMS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814R**
Client ID: **ZZZZZ** Batch ID: **10352** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **318965**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.954	0.20	2.5	1.227	109	80	120	0	0		

Sample ID: **057952-049ADUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814R**
Client ID: **ZZZZZ** Batch ID: **10352** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **318964**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.068	0.20	0	0	0	0	0	1.227	13.9	30	

Qualifiers:
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Calculations are based on raw values
DO - Surrogate diluted out
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Advanced Technology Laboratories
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CLIENT: Ninyo & Moore
Work Order: 057934
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10398

Sample ID: **MB-10398** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/15/2002** Run ID: **AA2_020816A**
Client ID: **ZZZZZ** Batch ID: **10398** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/16/2002** SeqNo: **319792**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-10377-TCLP** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/15/2002** Run ID: **AA2_020816A**
Client ID: **ZZZZZ** Batch ID: **10398** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/16/2002** SeqNo: **319793**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20	0	0	0	0	0	0	0		

Sample ID: **LCS-10398** SampType: **LCS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/15/2002** Run ID: **AA2_020816A**
Client ID: **ZZZZZ** Batch ID: **10398** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/16/2002** SeqNo: **319807**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.058	0.20	1	0	106	80	120	0	0		

Sample ID: **057972-025AMS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/15/2002** Run ID: **AA2_020816A**
Client ID: **ZZZZZ** Batch ID: **10398** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/16/2002** SeqNo: **319805**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.851	0.20	2.5	0.3406	100	80	120	0	0		

Sample ID: **057972-025ADUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/15/2002** Run ID: **AA2_020816A**
Client ID: **ZZZZZ** Batch ID: **10398** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/16/2002** SeqNo: **319804**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.3508	0.20	0	0	0	0	0	0.3406	2.97	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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Calculations are based on raw values
DO - Surrogate diluted out
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9603

Sample ID: **MB-9603A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718A**
Client ID: **ZZZZZ** Batch ID: **9603** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301045**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **MB-9603B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718A**
Client ID: **ZZZZZ** Batch ID: **9603** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301046**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-9603** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718A**
Client ID: **ZZZZZ** Batch ID: **9603** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301044**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	230.7	5.0	250	0	92.3	80	120	0	0		

Sample ID: **057932-011AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718A**
Client ID: **ZZZZZ** Batch ID: **9603** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301030**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	252.3	5.0	250	143.3	43.6	47	128	0	0		S

Sample ID: **057934-009AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718A**
Client ID: **570-116-0.0** Batch ID: **9603** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301042**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	888.6	5.0	250	844.1	17.8	47	128	0	0		S

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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DO - Surrogate diluted out
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9603

Sample ID: **057932-011ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718A**
Client ID: **ZZZZZ** Batch ID: **9603** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301029**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	103.2	5.0	0	0	0	0	0	143.3	32.5	30	R

Sample ID: **057934-009ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718A**
Client ID: **570-116-0.0** Batch ID: **9603** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301041**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	764.7	5.0	0	0	0	0	0	844.1	9.87	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9604

Sample ID: **MB-9604A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718B**
Client ID: **ZZZZZ** Batch ID: **9604** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301073**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **MB-9604B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718B**
Client ID: **ZZZZZ** Batch ID: **9604** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301074**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-9604** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718B**
Client ID: **ZZZZZ** Batch ID: **9604** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301072**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	239	5.0	250	0	95.6	80	120	0	0		

Sample ID: **057934-019AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718B**
Client ID: **570-113-0.3** Batch ID: **9604** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301058**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1231	5.0	250	1039	76.8	47	128	0	0		

Sample ID: **057935-002AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718B**
Client ID: **ZZZZZ** Batch ID: **9604** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301070**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	530.4	5.0	250	116.1	166	47	128	0	0		S

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9604

Sample ID: **057934-019ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718B**
Client ID: **570-113-0.3** Batch ID: **9604** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301057**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	863.5	5.0	0	0	0	0	0	1039	18.4	30	

Sample ID: **057935-002ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718B**
Client ID: **ZZZZZ** Batch ID: **9604** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301069**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	264.5	5.0	0	0	0	0	0	116.1	78.0	30	R

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9623

Sample ID: **MB-9623** SampType: **MBLK** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718A**
Client ID: **ZZZZZ** Batch ID: **9623** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **300879**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.0050									

Sample ID: **LCS-9623** SampType: **LCS** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718A**
Client ID: **ZZZZZ** Batch ID: **9623** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **300880**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.94	0.0050	1	0	94	80	120	0	0		

Sample ID: **057936-066AMS** SampType: **MS** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718A**
Client ID: **ZZZZZ** Batch ID: **9623** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **300891**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.43	0.0050	2.5	0	97.2	66	118	0	0		

Sample ID: **057936-066ADUP** SampType: **DUP** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718A**
Client ID: **ZZZZZ** Batch ID: **9623** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **300890**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.0050	0	0	0	0	0	0	0	30	

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9750

Sample ID: **MB-9750** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/25/2002** Run ID: **AA2_020725I**
Client ID: **ZZZZZ** Batch ID: **9750** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/25/2002** SeqNo: **306231**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9750A** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/22/2002** Run ID: **AA2_020725I**
Client ID: **ZZZZZ** Batch ID: **9750** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/25/2002** SeqNo: **306232**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9750B** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/22/2002** Run ID: **AA2_020725I**
Client ID: **ZZZZZ** Batch ID: **9750** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/25/2002** SeqNo: **306239**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.08538	0.20									

Sample ID: **LCS-9750** SampType: **LCS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/25/2002** Run ID: **AA2_020725I**
Client ID: **ZZZZZ** Batch ID: **9750** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/25/2002** SeqNo: **306253**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.172	0.20	7.5	0	95.6	80	120	0	0		

Sample ID: **057934-006AMS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/25/2002** Run ID: **AA2_020725I**
Client ID: **570-117-0.0** Batch ID: **9750** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/25/2002** SeqNo: **306238**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	147.6	4.0	100	58.5	89.1	80	120	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9750

Sample ID: **057934-027AMS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/25/2002** Run ID: **AA2_020725I**
Client ID: **570-111-0.3** Batch ID: **9750** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/25/2002** SeqNo: **306251**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	17.7	0.40	10	8.814	88.8	80	120	0	0		

Sample ID: **057934-006ADUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/22/2002** Run ID: **AA2_020725I**
Client ID: **570-117-0.0** Batch ID: **9750** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/25/2002** SeqNo: **306237**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	62.6	2.0	0	0	0	0	0	58.5	6.78	30	

Sample ID: **057934-027ADUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/22/2002** Run ID: **AA2_020725I**
Client ID: **570-111-0.3** Batch ID: **9750** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/25/2002** SeqNo: **306250**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.956	0.20	0	0	0	0	0	8.814	10.2	30	

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9942

Sample ID: **MB-9942** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/1/2002** Run ID: **AA2_020801D**
Client ID: **ZZZZZ** Batch ID: **9942** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/1/2002** SeqNo: **310925**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9942A** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/29/2002** Run ID: **AA2_020801D**
Client ID: **ZZZZZ** Batch ID: **9942** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/1/2002** SeqNo: **310926**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.06424	0.20									

Sample ID: **MB-9942B** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/29/2002** Run ID: **AA2_020801D**
Client ID: **ZZZZZ** Batch ID: **9942** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/1/2002** SeqNo: **310939**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-9942** SampType: **LCS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/1/2002** Run ID: **AA2_020801D**
Client ID: **ZZZZZ** Batch ID: **9942** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/1/2002** SeqNo: **310953**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.094	0.20	7.5	0	94.6	80	120	0	0		

Sample ID: **057934-022AMS** SampType: **MS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/1/2002** Run ID: **AA2_020801D**
Client ID: **570-112-0.3** Batch ID: **9942** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/1/2002** SeqNo: **310938**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.128	0.20	5	0.1857	98.8	80	120	0	0		

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9942

Sample ID: **057935-030AMS** SampType: **MS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/1/2002** Run ID: **AA2_020801D**
Client ID: **ZZZZZ** Batch ID: **9942** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/1/2002** SeqNo: **310951**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.617	0.20	5	0.748	97.4	80	120	0	0		

Sample ID: **057934-022ADUP** SampType: **DUP** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/29/2002** Run ID: **AA2_020801D**
Client ID: **570-112-0.3** Batch ID: **9942** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/1/2002** SeqNo: **310937**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.1286	0.20	0	0	0	0	0	0.1857	0	30	J

Sample ID: **057935-030ADUP** SampType: **DUP** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/29/2002** Run ID: **AA2_020801D**
Client ID: **ZZZZZ** Batch ID: **9942** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/1/2002** SeqNo: **310950**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.5721	0.20	0	0	0	0	0	0.748	26.6	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Ninyo & Moore
Work Order: 057934
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: R19556

Sample ID: **057936-020A-DUP** SampType: **DUP** TestCode: **9045_S** Units: **pH Units** Prep Date: **7/19/2002** Run ID: **WETCHEM_020719A**
Client ID: **ZZZZZ** Batch ID: **R19556** TestNo: **EPA 9045C** Analysis Date: **7/19/2002** SeqNo: **301616**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.065	0.10	0	0	0	0	0	6.97	1.35	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

Rachelle

From: Steve Reese [sreese@ninyoandmoore.com]
Sent: Wednesday, July 31, 2002 9:27 AM
To: 'rachelle@atlglobal.com'
Cc: David Shaler (E-mail); Ruth Cheung (E-mail)
Subject: TCLP Analysis

TCLP.xls

Rachelle,
Attached please find a list of samples to be run for the TCLP analysis. Currently, we selected all of the samples that are greater than 1,000 mg/kg
of TTLC results. However, they will be ran by instruction only. There may
be more samples chosen for TCLP analysis in the future, but please run these 82 samples for now. Please call with any questions.
Thank you, Steve

Stephen S. Reese
Senior Staff Environmental Scientist
Ninyo & Moore Geotechnical & Environmental Sciences Consultants
475 Goddard, Suite 200
Irvine, California 92618
Tel: (949) 753-7070
Fax: (949) 753-7071
Email: sreese@ninyoandmoore.com
www.ninyoandmoore.com

RUN FOR TCLP ANALYSIS			
33	20	29	82
569-101-0	570-101-0	571-104-0	
569-102-0	570-101-0.6	571-120-0	
569-102-0.3	570-102-0.6	571-310-0.9	
569-102-0.9	570-103-1.5	571-317-0	
569-111-0	570-114-0.6	571-320-0	
569-112-0	570-115-0	571-325-0.6	
569-112-0.6	570-119-0.3	571-507-0	
569-201-0	570-201-0	571-511-0	
569-212-0	570-214-0	571-514-0	
569-301-0	570-311-0.6	571-524-0	
569-303-0.9	570-312-0.6	571-710-0	
569-314-0	570-504-0	571-710-0.3	
569-401-0	570-508-0	571-711-0	
569-404-0.6	570-517-0	571-711-0.3	
569-405-0.6	570-517-0.3	571-712-0	
569-408-0.9	570-610-0.6	571-712-0.3	
569-502-0.6	570-615-0	571-201-0.6	
569-516-0	570-706-0	571-405-0	
569-603-0.3	570-709-0	571-406-0	
569-607-0	570-808-0.6	571-407-0	
569-607-0.3		571-414-0	
569-609-0		571-609-0	
569-609-0.3		571-611-0	
569-703-0		571-616-0	
569-703-0.9		571-617-0	
569-705-0		571-619-1.5	
569-705-0.3		571-814-0.3	
569-706-0		571-818-0.6	
569-708-0		571-819-0	
569-710-0			
569-711-0			
569-711-0.3			
569-801-0.3			

Rachelle

From: Steve Reese [sreese@ninyoandmoore.com]
Sent: Wednesday, July 31, 2002 3:04 PM
To: Rachelle@Advanced Labs (E-mail)
Cc: David Shaler (E-mail); Ruth Cheung (E-mail)
Subject: More TCLP Analyses

TCLP-2.xls

Rachelle,
Attached please find a list of 8 more TCLP analyses. Thanks, Steve

Stephen S. Reese
Senior Staff Environmental Scientist
Ninyo & Moore Geotechnical & Environmental Sciences Consultants
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Irvine, California 92618
Tel: (949) 753-7070
Fax: (949) 753-7071
Email: sreese@ninyoandmoore.com
www.ninyoandmoore.com

RUN FOR TCLP ANALYSIS			
1	5	2	8
569-805-0.3	570-113-0.3	571-214-0.3	
	570-712-0.6	571-618-0.9	
	570-208-0		
	570-804-0		
	570-812-0.3		

Rachelle

From: Ruth Cheung [rcheung@ninyoandmoore.com]
Sent: Tuesday, August 06, 2002 3:46 PM
To: 'Rachelle'; 'David Shaler (E-mail)'
Subject: Title 22 Metals

Title 22 Metals.xls

Rachelle,
Please run the following samples for Title 22 Metals. Please do not list
Pb in your emailed results. There should be a total of 120 samples to be
run.
Thanks.

Ruth L. Cheung
Staff Environmental Scientist
Ninyo & Moore
(949) 753-7070 x2273

569-102-0.9	570-101-0	571-101-0.9
569-112-0	570-101-0.6	571-104-0
569-201-0	570-201-0	571-201-0.6
569-206-0.6	570-205-0.9	571-108-1.5
569-106-1.5	570-106-0.3	571-111-0.3
569-212-0	570-208-1.5	571-207-0
569-401-0.6	570-111-0.6	571-210-0.6
569-301-0	570-214-0	571-115-0.9
569-303-0.9	570-115-0.3	571-214-0.3
569-404-0.6	570-119-0.9	571-120-0
569-408-0.9	570-224-0.6	571-217-1.5
569-314-0	570-401-0	571-220-0.6
569-313-0.3	570-401-0.3	571-301-0.3
569-502-0.6	570-304-1.5	571-405-0
569-602-1.5	570-307-0.9	571-306-0.9
569-607-0.3	570-311-0.6	571-407-0
569-607-0	570-312-0.6	571-310-0.9
569-508-0.9	570-316-0.3	571-315-0.3
569-511-0.6	570-601-0	571-412-1.5
569-612-1.5	570-505-1.5	571-317-0
569-516-0	570-508-0	571-320-0.6
569-801-0.3	570-610-0.6	571-416-0.9
569-519-0.6	570-511-0.9	571-325-0.3
569-803-0.9	570-615-0	571-421-1.5
569-705-0	570-514-0.3	571-425-0
569-806-1.5	570-517-0	571-501-0.6
569-708-0.3	570-618-0.6	571-503-0.9
569-711-0	570-621-1.5	571-603-0.3
569-811-0	570-703-0.9	571-507-0
	570-804-0	571-609-0
	570-706-0	571-510-1.5
	570-709-0	571-611-0
	570-808-0.6	571-514-0
	570-711-1.5	571-614-0.3
	570-812-0.3	571-517-0.9
		571-617-0.6
		571-520-1.5
		571-621-0.3
		571-524-0
		571-624-0.9
		571-529-0.3
		571-628-0.6
		571-703-1.5
		571-707-0
		571-804-0.9
		571-809-0.3
		571-711-0
		571-712-0
		571-814-0.3
		571-818-0.6
		571-819-0
		571-827-1.5

571-832-0.9
571-836-0.3
571-837-0.6
571-842-0

Rachelle

From: Ruth Cheung [rcheung@ninyoandmoore.com]
Sent: Thursday, August 08, 2002 9:14 AM
To: 'Rachelle'
Subject: TCLP Analysis

TCLP-3.xls

In addition to the 90 TCLP already run please run the following samples for
TCLP. There should be a list of 350 samples.
Thanks for a the hard work and timely results.

Ruth L. Cheung
Staff Environmental Scientist
Ninyo & Moore
(949) 753-7070 x2273

-----Original Message-----
From: Rachelle [SMTP:Rachelle@ATLGlobal.com]
Sent: Wednesday, August 07, 2002 5:02 PM
To: 'David Shaler (E-mail)'
Cc: 'Ruth Cheung (E-mail)'
Subject: TCLP Results

<<57931TCLP.xls>> <<58001TCLP.xls>> <<58021TCLP.xls>> <<58022TCLP.xls>>
<<58023TCLP.xls>> <<58024TCLP.xls>> <<58049TCLP.xls>> <<58050TCLP.xls>>
<<58052TCLP.xls>> <<58053TCLP.xls>> <<58065TCLP.xls>> <<58066TCLP.xls>>
<<58067TCLP.xls>> <<58068TCLP.xls>> <<58069TCLP.xls>>

Rachelle Arada
Project Coordinator
www.atlglobal.com
voice: 562.989.4045 ext 237
fax : 562.989.4040

<< File: 57931TCLP.xls >> << File: 58001TCLP.xls >> << File: 58021TCLP.xls >> << File: 58022TCLP.xls >> << File: 58023TCLP.xls >> << File: 58024TCLP.xls >> << File: 58049TCLP.xls >> << File: 58050TCLP.xls >> << File: 58052TCLP.xls >> << File: 58053TCLP.xls >> << File: 58065TCLP.xls >> << File: 58066TCLP.xls >> << File: 58067TCLP.xls >> << File: 58068TCLP.xls >> << File: 58069TCLP.xls >>

569-404-0	2. STLC	170
569-402-0	2. STLC	130
569-406-0	2. STLC	120
569-515-0	2. STLC	110
569-611-0	2. STLC	100
569-409-0	2. STLC	94
569-603-0	2. STLC	93
569-104-0.6	2. STLC	91
569-807-0	2. STLC	86
569-608-0	2. STLC	86
569-501-0	2. STLC	84
569-710-0.3	2. STLC	83
569-808-0	2. STLC	83
569-609-0.6	2. STLC	80
569-803-0	2. STLC	79
569-105-0	2. STLC	78
569-512-0	2. STLC	77
569-513-0	2. STLC	77
569-302-0	2. STLC	74
569-805-0	2. STLC	73
569-517-0	2. STLC	71
569-704-0.3	2. STLC	71
569-703-0.6	2. STLC	70
569-514-0.3	2. STLC	70
569-803-0.3	2. STLC	69
569-409-0.6	2. STLC	69
569-411-0	2. STLC	68
569-102-0.6	2. STLC	68
569-809-0	2. STLC	65
569-605-0	2. STLC	65
569-711-0.6	2. STLC	62
569-806-0	2. STLC	60
569-802-0.3	2. STLC	60
569-410-0	2. STLC	59
569-501-0.6	2. STLC	59
569-808-0.3	2. STLC	58
569-104-0	2. STLC	56
569-804-0	2. STLC	54
569-610-0	2. STLC	54
569-608-0.3	2. STLC	53
569-213-0	2. STLC	49
569-701-0	2. STLC	47
569-311-0	2. STLC	47
569-609-0.9	2. STLC	46
569-513-0.3	2. STLC	45
569-801-0.6	2. STLC	44
569-514-0	2. STLC	42
569-805-0.6	2. STLC	42
569-408-1.5	2. STLC	42
569-807-0.3	2. STLC	40
569-204-0	2. STLC	40
569-517-0.3	2. STLC	36
569-518-0	2. STLC	36
569-806-0.3	2. STLC	36
569-705-1.5	2. STLC	35
569-303-0.6	2. STLC	34
569-516-0.3	2. STLC	33
569-705-0.6	2. STLC	33
569-802-0	2. STLC	33
569-515-0.6	2. STLC	32
569-704-0	2. STLC	32
569-401-0.3	2. STLC	32
569-207-0	2. STLC	32
569-608-0.6	2. STLC	31
569-104-0.3	2. STLC	31
569-201-0.6	2. STLC	30
569-515-0.3	2. STLC	28
569-212-0.6	2. STLC	28
569-103-0	2. STLC	28
569-313-0	2. STLC	27
569-103-0.3	2. STLC	26
569-705-0.9	2. STLC	25
569-707-0.3	2. STLC	25
569-515-1.5	2. STLC	24
569-508-0	2. STLC	24
569-801-0	2. STLC	24
569-402-0.6	2. STLC	24
569-516-0.6	2. STLC	22
569-509-0.3	2. STLC	22
569-106-0	2. STLC	22
569-106-0.3	2. STLC	22
569-202-0	2. STLC	21
569-805-1.5	2. STLC	21
569-205-0	2. STLC	20
569-707-0	2. STLC	19

570-515-0.3	2. STLC	120
570-811-0	2. STLC	110
570-114-0.0	2. STLC	110
570-504-0.6	2. STLC	100
570-811-1.5	2. STLC	90
570-615-0.6	2. STLC	84
570-305-0	2. STLC	79
570-314-0.6	2. STLC	76
570-505-0.6	2. STLC	75
570-208-0.6	2. STLC	74
570-116-0.0	2. STLC	73
570-102-0	2. STLC	65
570-804-0.6	2. STLC	64
570-704-0	2. STLC	63
570-508-0.6	2. STLC	60
570-706-0.3	2. STLC	60
570-303-0	2. STLC	58
570-311-1.5	2. STLC	58
570-117-0.0	2. STLC	58
570-208-0.3	2. STLC	58
570-709-0.6	2. STLC	57
570-703-0	2. STLC	55
570-206-0	2. STLC	54
570-301-0	2. STLC	53
570-603-0.3	2. STLC	46
570-711-0.6	2. STLC	46
570-206-0.3	2. STLC	45
570-103-0	2. STLC	44
570-602-0	2. STLC	41
570-209-0	2. STLC	40
570-210-0	2. STLC	40
570-117-0.3	2. STLC	39
570-103-0.6	2. STLC	37
570-110-0.6	2. STLC	37
570-805-0.9	2. STLC	36
570-112-1.5	2. STLC	35
570-614-0	2. STLC	34
570-713-0.3	2. STLC	33
570-513-0	2. STLC	32
570-312-0.3	2. STLC	31
570-503-0.6	2. STLC	31
570-510-0.6	2. STLC	31
570-202-0	2. STLC	31
570-207-0	2. STLC	31
570-209-0.3	2. STLC	31
570-703-0.3	2. STLC	30
570-401-0	2. STLC	30
570-610-0.9	2. STLC	29
570-809-0.6	2. STLC	29
570-509-0.9	2. STLC	29
570-210-0.6	2. STLC	29
570-211-0	2. STLC	29
570-603-0	2. STLC	28
570-119-0	2. STLC	28
570-713-0.6	2. STLC	28
570-108-0	2. STLC	27
570-708-0.6	2. STLC	27
570-224-0	2. STLC	26
570-601-0	2. STLC	26
570-710-0.6	2. STLC	26
570-614-0.6	2. STLC	26
570-118-0.3	2. STLC	26
570-304-0	2. STLC	25
570-707-0.6	2. STLC	25
570-510-0	2. STLC	25
570-110-0	2. STLC	24
570-223-0	2. STLC	24
570-117-0.6	2. STLC	24
570-616-0	2. STLC	23
570-704-0.3	2. STLC	22
570-513-0.6	2. STLC	22
570-221-0.0	2. STLC	22
570-617-0	2. STLC	21
570-214-0.3	2. STLC	21
570-122-0.9	2. STLC	20
570-313-0.6	2. STLC	19
570-207-0.6	2. STLC	19
570-120-0.9	2. STLC	18
570-506-0	2. STLC	18
570-102-0.9	2. STLC	17
570-216-0	2. STLC	17
570-225-0	2. STLC	17
570-304-0.3	2. STLC	17
570-409-0	2. STLC	17
570-713-0	2. STLC	17

571-521-0	2. STLC	230
571-324-0.9	2. STLC	110
571-818-0	2. STLC	110
571-819-0.6	2. STLC	110
571-708-0	2. STLC	110
571-103-0.6	2. STLC	110
571-617-0.3	2. STLC	100
571-611-0.6	2. STLC	92
571-712-0.9	2. STLC	81
571-105-0.6	2. STLC	81
571-313-0	2. STLC	79
571-508-0	2. STLC	73
571-518-0.3	2. STLC	73
571-217-0	2. STLC	68
571-516-0	2. STLC	66
571-701-0.3	2. STLC	66
571-710-0.6	2. STLC	65
571-512-0	2. STLC	64
571-308-0.9	2. STLC	61
571-701-0	2. STLC	61
571-514-0.3	2. STLC	59
571-415-0	2. STLC	58
571-616-0.6	2. STLC	57
571-517-0	2. STLC	56
571-112-0.9	2. STLC	56
571-214-0	2. STLC	55
571-415-0.3	2. STLC	55
571-405-0.6	2. STLC	55
571-530-0	2. STLC	55
571-831-0	2. STLC	53
571-709-0	2. STLC	53
571-103-0.0	2. STLC	52
571-312-0	2. STLC	51
571-526-0	2. STLC	51
571-819-1.5	2. STLC	51
571-515-0	2. STLC	50
571-833-0	2. STLC	49
571-815-0.6	2. STLC	47
571-517-0.3	2. STLC	46
571-610-0	2. STLC	46
571-413-0	2. STLC	46
571-815-0	2. STLC	45
571-514-0.9	2. STLC	44
571-505-1.5	2. STLC	44
571-528-0	2. STLC	44
571-610-0.6	2. STLC	43
571-629-0	2. STLC	43
571-604-0	2. STLC	42
571-213-0	2. STLC	41
571-812-0	2. STLC	41
571-706-0	2. STLC	41
571-530-0.6	2. STLC	41
571-305-0	2. STLC	40
571-523-0.3	2. STLC	39
571-510-0	2. STLC	39
571-305-0.9	2. STLC	39
571-818-1.5	2. STLC	39
571-703-0	2. STLC	38
571-520-0.3	2. STLC	36
571-216-0	2. STLC	34
571-827-0	2. STLC	34
571-708-0.3	2. STLC	34
571-514-0.6	2. STLC	33
571-528-1.5	2. STLC	33
571-803-0	2. STLC	33
571-414-0.3	2. STLC	33
571-813-0.3	2. STLC	32
571-523-0	2. STLC	31
571-326-0	2. STLC	31
571-502-0.6	2. STLC	31
571-624-1.5	2. STLC	31
571-330-0	2. STLC	31
571-512-0.3	2. STLC	30
571-521-0.6	2. STLC	29
571-706-0.3	2. STLC	29
571-814-0.6	2. STLC	28
571-616-1.5	2. STLC	28
571-835-0	2. STLC	28
571-811-0.3	2. STLC	28
571-101-0.6	2. STLC	28
571-112-0	2. STLC	28
571-315-0	2. STLC	27
571-622-0	2. STLC	27
571-607-0.6	2. STLC	27
571-609-0.6	2. STLC	27

569-709-0	2. STLC	19
569-202-0.3	2. STLC	19
569-602-0	2. STLC	19
569-207-0.3	2. STLC	19
569-706-0.3	2. STLC	17
569-807-0.9	2. STLC	17
569-104-0.9	2. STLC	17
569-505-0.6	2. STLC	17
569-704-0.6	2. STLC	16
569-808-0.6	2. STLC	16
569-212-0.3	2. STLC	16
569-612-0	2. STLC	16
569-704-1.5	2. STLC	15
569-411-0.3	2. STLC	15
569-113-0	2. STLC	15
569-807-0.6	2. STLC	14
569-311-0.3	2. STLC	12
569-312-0	2. STLC	10
569-311-0.9	2. STLC	8.3

104

570-401-0.3	2. STLC	17
570-616-0.6	2. STLC	17
570-308-0	2. STLC	16
570-807-0.9	2. STLC	16
570-701-0.6	2. STLC	16
570-617-0.3	2. STLC	16
570-107-0.6	2. STLC	15
570-811-0.6	2. STLC	15
570-707-0	2. STLC	15
570-518-0	2. STLC	15
570-111-0.0	2. STLC	15
570-109-0.6	2. STLC	14
570-401-0.9	2. STLC	4.1
570-408-0	2. STLC	4
570-409-0.3	2. STLC	3
570-401-0.6		0
570-401-1.5		0
570-408-0.6		0
570-408-1.5		0

104

571-837-0.3	2. STLC	27
571-520-0	2. STLC	26
571-516-0.3	2. STLC	26
571-420-0	2. STLC	26
571-102-0.6	2. STLC	26
571-517-1.5	2. STLC	25
571-513-0.6	2. STLC	25
571-623-0.6	2. STLC	25
571-112-0.3	2. STLC	25
571-326-0.6	2. STLC	24
571-619-0.3	2. STLC	24
571-619-0.9	2. STLC	24
571-528-0.3	2. STLC	24
571-706-0.6	2. STLC	24
571-112-0.6	2. STLC	24
571-327-0.6	2. STLC	23
571-817-0	2. STLC	23
571-425-0.6	2. STLC	22
571-118-0	2. STLC	22
571-829-0	2. STLC	22
571-828-0	2. STLC	22
571-122-0	2. STLC	21
571-101-1.5	2. STLC	21
571-530-0.3	2. STLC	21
571-406-0.6	2. STLC	20
571-517-0.6	2. STLC	20
571-835-0.3	2. STLC	20
571-501-0	2. STLC	20
571-518-0.9	2. STLC	19
571-510-0.3	2. STLC	19
571-814-0.9	2. STLC	19
571-522-0.6	2. STLC	19
571-622-1.5	2. STLC	19
571-812-0.6	2. STLC	19
571-701-0.6	2. STLC	19
571-704-0	2. STLC	19
571-711-0.6	2. STLC	19
571-212-0	2. STLC	18
571-839-0.6	2. STLC	18
571-610-1.5	2. STLC	18
571-709-0.3	2. STLC	18
571-311-0.6	2. STLC	17
571-620-0	2. STLC	17
571-109-0	2. STLC	17
571-704-0.3	2. STLC	17
571-207-1.5	2. STLC	16
571-203-0	2. STLC	16
571-616-0.3	2. STLC	16
571-317-0.3	2. STLC	16
571-629-0.3	2. STLC	16
571-416-0	2. STLC	15
571-419-0	2. STLC	15
571-526-0.3	2. STLC	15
571-619-0	2. STLC	15
571-606-0	2. STLC	15
571-115-0.6	2. STLC	14
571-202-0.9	2. STLC	11

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tblTEMP

WorkOrder	ClientSampID	TestNo	Analyte	PQL	DF	CollectionDate	AnalDate	PrepDate
057934	570-111-0.0	EPA 1311/ 7420	Lead	0.2	1	7/15/2002	8/14/2002	8/13/2002
057934	570-111-0.0	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057934	570-111-0.0	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/1/2002	7/29/2002
057934	570-111-0.0	WET/ EPA 7420	Lead	0.4	2	7/15/2002	7/25/2002	7/22/2002
057934	570-111-0.3	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057934	570-111-0.3	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/1/2002	7/29/2002
057934	570-111-0.3	WET/ EPA 7420	Lead	0.2	1	7/15/2002	7/25/2002	7/22/2002
057934	570-111-0.6	EPA 6010B	Antimony	2.5	10	7/15/2002	8/10/2002	8/9/2002
057934	570-111-0.6	EPA 6010B	Arsenic	2.5	10	7/15/2002	8/10/2002	8/9/2002
057934	570-111-0.6	EPA 6010B	Barium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057934	570-111-0.6	EPA 6010B	Beryllium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057934	570-111-0.6	EPA 6010B	Cadmium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057934	570-111-0.6	EPA 6010B	Chromium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057934	570-111-0.6	EPA 6010B	Cobalt	1.5	10	7/15/2002	8/10/2002	8/9/2002
057934	570-111-0.6	EPA 6010B	Copper	1.5	10	7/15/2002	8/10/2002	8/9/2002
057934	570-111-0.6	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057934	570-111-0.6	EPA 6010B	Molybdenum	2.5	10	7/15/2002	8/10/2002	8/9/2002
057934	570-111-0.6	EPA 6010B	Nickel	1.5	10	7/15/2002	8/10/2002	8/9/2002
057934	570-111-0.6	EPA 6010B	Selenium	2.5	10	7/15/2002	8/10/2002	8/9/2002
057934	570-111-0.6	EPA 6010B	Silver	1.5	10	7/15/2002	8/10/2002	8/9/2002
057934	570-111-0.6	EPA 6010B	Thallium	2.5	10	7/15/2002	8/10/2002	8/9/2002
057934	570-111-0.6	EPA 6010B	Vanadium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057934	570-111-0.6	EPA 6010B	Zinc	5	10	7/15/2002	8/10/2002	8/9/2002
057934	570-111-0.6	EPA 7471A	Mercury	0.1	1	7/15/2002	8/9/2002	8/7/2002
057934	570-112-0.0	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057934	570-112-0.0	WET/ EPA 7420	Lead	0.2	1	7/15/2002	7/25/2002	7/22/2002
057934	570-112-0.3	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057934	570-112-0.3	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/1/2002	7/29/2002
057934	570-112-0.3	WET/ EPA 7420	Lead	0.2	1	7/15/2002	7/25/2002	7/22/2002
057934	570-112-0.6	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057934	570-112-0.9	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057934	570-112-1.5	EPA 1311/ 7420	Lead	0.2	1	7/15/2002	8/14/2002	8/13/2002
057934	570-112-1.5	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057934	570-112-1.5	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/1/2002	7/29/2002
057934	570-112-1.5	WET/ EPA 7420	Lead	0.8	4	7/15/2002	7/25/2002	7/22/2002

057934	570-113-0.0	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057934	570-113-0.3	EPA 1311/ 7420	Lead	0.2	1	7/15/2002	8/6/2002	8/5/2002
057934	570-113-0.3	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057934	570-113-0.3	EPA 9045C	pH	0.1	1	7/15/2002	7/19/2002	7/19/2002
057934	570-113-0.6	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057934	570-114-0.0	EPA 1311/ 7420	Lead	0.2	1	7/15/2002	8/14/2002	8/13/2002
057934	570-114-0.0	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057934	570-114-0.0	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/1/2002	7/29/2002
057934	570-114-0.0	WET/ EPA 7420	Lead	4	20	7/15/2002	7/25/2002	7/22/2002
057934	570-114-0.3	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057934	570-114-0.6	EPA 1311/ 7420	Lead	0.2	1	7/15/2002	8/6/2002	8/5/2002
057934	570-114-0.6	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057934	570-114-0.9	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057934	570-114-1.5	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057934	570-115-0.0	EPA 1311/ 7420	Lead	0.2	1	7/15/2002	8/6/2002	8/5/2002
057934	570-115-0.0	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057934	570-115-0.3	EPA 6010B	Antimony	2.5	10	7/15/2002	8/10/2002	8/9/2002
057934	570-115-0.3	EPA 6010B	Arsenic	2.5	10	7/15/2002	8/10/2002	8/9/2002
057934	570-115-0.3	EPA 6010B	Barium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057934	570-115-0.3	EPA 6010B	Beryllium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057934	570-115-0.3	EPA 6010B	Cadmium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057934	570-115-0.3	EPA 6010B	Chromium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057934	570-115-0.3	EPA 6010B	Cobalt	1.5	10	7/15/2002	8/10/2002	8/9/2002
057934	570-115-0.3	EPA 6010B	Copper	1.5	10	7/15/2002	8/10/2002	8/9/2002
057934	570-115-0.3	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057934	570-115-0.3	EPA 6010B	Molybdenum	2.5	10	7/15/2002	8/10/2002	8/9/2002
057934	570-115-0.3	EPA 6010B	Nickel	1.5	10	7/15/2002	8/10/2002	8/9/2002
057934	570-115-0.3	EPA 6010B	Selenium	2.5	10	7/15/2002	8/10/2002	8/9/2002
057934	570-115-0.3	EPA 6010B	Silver	1.5	10	7/15/2002	8/10/2002	8/9/2002
057934	570-115-0.3	EPA 6010B	Thallium	2.5	10	7/15/2002	8/10/2002	8/9/2002
057934	570-115-0.3	EPA 6010B	Vanadium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057934	570-115-0.3	EPA 6010B	Zinc	5	10	7/15/2002	8/10/2002	8/9/2002
057934	570-115-0.3	EPA 7471A	Mercury	0.1	1	7/15/2002	8/9/2002	8/7/2002
057934	570-115-0.6	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057934	570-115-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/1/2002	7/29/2002
057934	570-115-0.6	WET/ EPA 7420	Lead	0.4	2	7/15/2002	7/25/2002	7/22/2002

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057934	570-116-0.0	EPA 1311/ 7420	Lead	0.2	1	7/15/2002	8/14/2002	8/13/2002
057934	570-116-0.0	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057934	570-116-0.0	EPA 9045C	pH	0.1	1	7/15/2002	7/19/2002	7/19/2002
057934	570-116-0.0	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/1/2002	7/29/2002
057934	570-116-0.0	WET/ EPA 7420	Lead	2	10	7/15/2002	7/25/2002	7/22/2002
057934	570-117-0.0	EPA 1311/ 7420	Lead	0.2	1	7/15/2002	8/16/2002	8/15/2002
057934	570-117-0.0	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057934	570-117-0.0	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/1/2002	7/29/2002
057934	570-117-0.0	WET/ EPA 7420	Lead	2	10	7/15/2002	7/25/2002	7/22/2002
057934	570-117-0.3	EPA 1311/ 7420	Lead	0.2	1	7/15/2002	8/14/2002	8/13/2002
057934	570-117-0.3	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057934	570-117-0.3	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/1/2002	7/29/2002
057934	570-117-0.3	WET/ EPA 7420	Lead	0.8	4	7/15/2002	7/25/2002	7/22/2002
057934	570-117-0.6	EPA 1311/ 7420	Lead	0.2	1	7/15/2002	8/14/2002	8/13/2002
057934	570-117-0.6	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057934	570-117-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/1/2002	7/29/2002
057934	570-117-0.6	WET/ EPA 7420	Lead	0.8	4	7/15/2002	7/25/2002	7/22/2002
057934	570-118-0.0	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057934	570-118-0.0	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/1/2002	7/29/2002
057934	570-118-0.0	WET/ EPA 7420	Lead	0.2	1	7/15/2002	7/25/2002	7/22/2002
057934	570-118-0.3	EPA 1311/ 7420	Lead	0.2	1	7/15/2002	8/14/2002	8/13/2002
057934	570-118-0.3	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057934	570-118-0.3	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/1/2002	7/29/2002
057934	570-118-0.3	WET/ EPA 7420	Lead	0.8	4	7/15/2002	7/25/2002	7/22/2002
057934	570-118-0.6	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057934	570-118-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/1/2002	7/29/2002
057934	570-118-0.6	WET/ EPA 7420	Lead	0.4	2	7/15/2002	7/25/2002	7/22/2002
057934	570-118-0.9	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057934	EB-3	EPA 6010B	Lead	0.005	1	7/15/2002	7/18/2002	7/17/2002

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August 19, 2002

David Shaler
Ninyo & Moore
475 Goddard Suite 200
Irvine, CA 92618
TEL: (949) 753-7070
FAX: (949) 753-7071

ELAP No.: 1838
NELAP No.: 02107CA
Workorder No.: 057999

RE: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

Attention: David Shaler

Enclosed are the results for sample(s) received on July 20, 2002 by Advanced Technology Laboratories and tested for the parameters indicated in the enclosed chain of custody.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

J Kelley for

Eddie F. Rodriguez
Laboratory Director

RECEIVED
AUG 2 6 2002
NINYO & MOORE
ORANGE COUNTY OFFICE

This cover letter is an integral part of this analytical report.

Laboratory	Site	Consultant
Advanced Technology Laboratories 3275 Walnut Avenue, Signal Hill, CA 90807 Tel. (562) 989-4045 Fax (562) 989-6348	Caltrans/I-10 (605-57)/Lead Survey TO 07-117070-PX Project # 203939001	Ninyo & Moore - David Shaler/Steve Reese 475 Goddard, Suite 200, Irvine, CA 92618 Tel. (949) 753-7070 Fax (949) 753-7071

Special Instructions
See Project specifications. 5 Day TAT.

Relinquished by: (name/date/time) 7-18-02
Received by: (name/date/time) 7-18-02 4:00p

Relinquished by: (name/date/time) 7-18-02 7:05p
Received by: (name/date/time) 7-18-02 7:16pm

Lab No	Sample I.D	Date	Time	Sample container P=plastic B=brass	Analyses: Total Lead EPA Method 6010	Analyses: pH EPA Method 9045
	EB-19	7/18/02	3:35	P	X	
	57D-713-0		8:45		X	X
	57D-713-0.3		8:46		X	
	57D-713-0.6		8:47		X	
	57D-713-0.9		8:48		X	
	57D-713-1.5		8:50		X	
	57D-712-0		8:56		X	
	57D-712-0.3		8:57		X	
	57D-712-0.6		8:59		X	
	57D-712-0.9		9:01		X	
	57D-712-1.5		9:03		X	
	57D-711-0		9:10		X	X
	57D-711-0.3		9:12		X	
	57D-711-0.6		9:13		X	
	57D-711-0.9		9:15		X	
	57D-711-1.5		9:17		X	
	57D-710-0		9:29		X	
	57D-710-0.3		9:31		X	
	57D-710-0.6		9:32		X	
	57D-710-0.9		9:34		X	
	57D-710-1.5		9:36		X	
	57D-709-0		9:45		X	X
	57D-709-0.3		9:47		X	
	57D-709-0.6		9:50		X	
	57D-709-0.9		9:52		X	
	57D-709-1.5		9:55		X	
	57D-708-0		9:59		X	
	57D-708-0.3		10:00		X	
	57D-708-0.6		10:01		X	
	57D-708-0.9		10:02		X	
	57D-708-1.5		10:04		X	
	57D-707-0		10:10		X	X
	57D-707-0.3		10:12		X	
	57D-707-0.6		10:13		X	
	57D-707-0.9		10:15		X	
	57D-701-0		11:47	B	X	
	57D-701-0.3		11:51		X	
	57D-701-0.6		11:54		X	
	57D-701-0.9		11:57		X	
	57D-701-1.5		12:01		X	
	57D-703-0		8:56		X	X
	57D-703-0.3		8:58		X	
	57D-704-0		8:48		X	
	57D-704-0.3		8:50		X	
	57D-519-0		10:35	P	X	
	57D-519-0.3		10:36		X	
	57D-519-0.6		10:38		X	
	57D-519-0.9		10:40		X	
	57D-519-1.5		10:45		X	
	57D-702-0		10:46		X	
	57D-702-0.3		10:48		X	
	57D-702-0.6		10:49		X	
	57D-702-0.9		10:20		X	
	57D-702-1.5		10:20		X	
	57D-706-0		9:15		X	X
	57D-706-0.3		9:15		X	
	57D-706-0.6		9:15		X	
	57D-706-0.9		9:15		X	
	57D-706-1.5		9:20		X	

Total # of samples: 59

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Date: *25-Jul-02*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	EB-19
Lab Order:	057999		
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Collection Date:**	7/18/2002 3:35:00 PM
Lab ID:	057999-001A	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
LEAD BY ICP						
	(EPA 3010A)			**EPA 6010B**		
RunID: ICP2_020723B	QC Batch: 9745					Analyst: **RQ**
Lead	ND	0.0050		mg/L	1	7/23/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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Date: 7/25/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057999
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/20/2002
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057999-002A	570-713-0	560	mg/Kg	9798	5	1	7/18/2002	7/24/2002
057999-003A	570-713-0.3	89	mg/Kg	9798	5	1	7/18/2002	7/24/2002
057999-004A	570-713-0.6	400	mg/Kg	9798	5	1	7/18/2002	7/24/2002
057999-005A	570-713-0.9	20	mg/Kg	9798	5	1	7/18/2002	7/24/2002
057999-006A	570-713-1.5	7.2	mg/Kg	9798	5	1	7/18/2002	7/24/2002
057999-007A	570-712-0	250	mg/Kg	9798	5	1	7/18/2002	7/24/2002
057999-008A	570-712-0.3	14	mg/Kg	9798	5	1	7/18/2002	7/24/2002
057999-009A	570-712-0.6	1000	mg/Kg	9798	5	1	7/18/2002	7/24/2002
057999-010A	570-712-0.9	18	mg/Kg	9798	5	1	7/18/2002	7/24/2002
057999-011A	570-712-1.5	7.5	mg/Kg	9798	5	1	7/18/2002	7/24/2002
057999-012A	570-711-0	30	mg/Kg	9798	5	1	7/18/2002	7/24/2002

Qualifiers:

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Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: 7/25/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057999
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/20/2002
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057999-013A	570-711-0.3	19	mg/Kg	9798	5	1	7/18/2002	7/24/2002
057999-014A	570-711-0.6	120	mg/Kg	9798	5	1	7/18/2002	7/24/2002
057999-015A	570-711-0.9	5.7	mg/Kg	9798	5	1	7/18/2002	7/24/2002
057999-016A	570-711-1.5	ND	mg/Kg	9798	5	1	7/18/2002	7/24/2002
057999-017A	570-710-0	37	mg/Kg	9798	5	1	7/18/2002	7/24/2002
057999-018A	570-710-0.3	19	mg/Kg	9798	5	1	7/18/2002	7/24/2002
057999-019A	570-710-0.6	430	mg/Kg	9798	5	1	7/18/2002	7/24/2002
057999-020A	570-710-0.9	5.6	mg/Kg	9798	5	1	7/18/2002	7/24/2002
057999-021A	570-710-1.5	11	mg/Kg	9798	5	1	7/18/2002	7/24/2002
057999-022A	570-709-0	1100	mg/Kg	9799	5	1	7/18/2002	7/24/2002
057999-023A	570-709-0.3	16	mg/Kg	9799	5	1	7/18/2002	7/24/2002

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Advanced Technology Laboratories

Date: 7/25/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057999
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/20/2002
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057999-024A	570-709-0.6	110	mg/Kg	9799	5	1	7/18/2002	7/24/2002
057999-025A	570-709-0.9	17	mg/Kg	9799	5	1	7/18/2002	7/24/2002
057999-026A	570-709-1.5	730	mg/Kg	9799	5	1	7/18/2002	7/24/2002
057999-027A	570-708-0	68	mg/Kg	9799	5	1	7/18/2002	7/24/2002
057999-028A	570-708-0.3	9.9	mg/Kg	9799	5	1	7/18/2002	7/24/2002
057999-029A	570-708-0.6	600	mg/Kg	9799	5	1	7/18/2002	7/24/2002
057999-030A	570-708-0.9	15	mg/Kg	9799	5	1	7/18/2002	7/24/2002
057999-031A	570-708-1.5	69	mg/Kg	9799	5	1	7/18/2002	7/24/2002
057999-032A	570-707-0	250	mg/Kg	9799	5	1	7/18/2002	7/24/2002
057999-033A	570-707-0.3	87	mg/Kg	9799	5	1	7/18/2002	7/24/2002
057999-034A	570-707-0.6	730	mg/Kg	9799	5	1	7/18/2002	7/24/2002

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Advanced Technology Laboratories

Date: 7/25/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057999
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/20/2002
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057999-035A	570-707-0.9	27	mg/Kg	9799	5	1	7/18/2002	7/24/2002
057999-036A	570-701-0	120	mg/Kg	9799	5	1	7/18/2002	7/24/2002
057999-037A	570-701-0.3	21	mg/Kg	9799	5	1	7/18/2002	7/24/2002
057999-038A	570-701-0.6	300	mg/Kg	9799	5	1	7/18/2002	7/24/2002
057999-039A	570-701-0.9	5.5	mg/Kg	9799	5	1	7/18/2002	7/24/2002
057999-040A	570-701-1.5	ND	mg/Kg	9799	5	1	7/18/2002	7/24/2002
057999-041A	570-703-0	800	mg/Kg	9799	5	1	7/18/2002	7/24/2002
057999-042A	570-703-0.3	370	mg/Kg	9800	5	1	7/18/2002	7/24/2002
057999-043A	570-704-0	540	mg/Kg	9800	5	1	7/18/2002	7/24/2002
057999-044A	570-704-0.3	370	mg/Kg	9800	5	1	7/18/2002	7/24/2002
057999-045A	570-519-0	300	mg/Kg	9800	5	1	7/18/2002	7/24/2002

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Date: 7/25/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057999
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/20/2002
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057999-046A	570-519-0.3	33	mg/Kg	9800	5	1	7/18/2002	7/24/2002
057999-047A	570-519-0.6	16	mg/Kg	9800	5	1	7/18/2002	7/24/2002
057999-048A	570-519-0.9	5.2	mg/Kg	9800	5	1	7/18/2002	7/24/2002
057999-049A	570-519-1.5	5.4	mg/Kg	9800	5	1	7/18/2002	7/24/2002
057999-050A	570-702-0	180	mg/Kg	9800	5	1	7/18/2002	7/24/2002
057999-051A	570-702-0.3	13	mg/Kg	9800	5	1	7/18/2002	7/24/2002
057999-052A	570-702-0.6	15	mg/Kg	9800	5	1	7/18/2002	7/24/2002
057999-053A	570-702-0.9	5.2	mg/Kg	9800	5	1	7/18/2002	7/24/2002
057999-054A	570-702-1.5	ND	mg/Kg	9800	5	1	7/18/2002	7/24/2002
057999-055A	570-706-0	1100	mg/Kg	9800	5	1	7/18/2002	7/24/2002
057999-056A	570-706-0.3	670	mg/Kg	9800	5	1	7/18/2002	7/24/2002

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Advanced Technology Laboratories

Date: 7/25/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057999
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/20/2002
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057999-057A	570-706-0.6	7.0	mg/Kg	9800	5	1	7/18/2002	7/24/2002
057999-058A	570-706-0.9	5.1	mg/Kg	9800	5	1	7/18/2002	7/24/2002
057999-059A	570-706-1.5	5.1	mg/Kg	9800	5	1	7/18/2002	7/24/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: 7/25/2002

pH
EPA 9045C

CLIENT:	Ninyo & Moore	**Lab Order:**	057999
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/20/2002
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057999-002A	570-713-0	8.20	pH Units	R19742	0.1	1	7/18/2002	7/23/2002
057999-012A	570-711-0	7.73	pH Units	R19742	0.1	1	7/18/2002	7/23/2002
057999-022A	570-709-0	8.48	pH Units	R19742	0.1	1	7/18/2002	7/23/2002
057999-032A	570-707-0	7.35	pH Units	R19742	0.1	1	7/18/2002	7/23/2002
057999-042A	570-703-0.3	7.50	pH Units	R19742	0.1	1	7/18/2002	7/23/2002
057999-056A	570-706-0.3	7.21	pH Units	R19742	0.1	1	7/18/2002	7/23/2002

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DO - Surrogate Diluted Out
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Advanced Technology Laboratories

Date: 8/1/2002

LEAD BY ATOMIC ABSORPTION
WET/ EPA 7420

CLIENT:	Ninyo & Moore	**Lab Order:**	057999
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/20/2002
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057999-002A	570-713-0	17	mg/L	9904	0.4	2	7/18/2002	7/31/2002
057999-003A	570-713-0.3	33	mg/L	9904	0.8	4	7/18/2002	7/31/2002
057999-004A	570-713-0.6	28	mg/L	9904	0.8	4	7/18/2002	7/31/2002
057999-007A	570-712-0	11	mg/L	9904	0.4	2	7/18/2002	7/31/2002
057999-014A	570-711-0.6	46	mg/L	9904	2	10	7/18/2002	7/31/2002
057999-019A	570-710-0.6	26	mg/L	9904	0.8	4	7/18/2002	7/31/2002
057999-024A	570-709-0.6	57	mg/L	9904	2	10	7/18/2002	7/31/2002
057999-026A	570-709-1.5	ND	mg/L	9905	0.2	1	7/18/2002	7/31/2002
057999-027A	570-708-0	3.7	mg/L	9905	0.2	1	7/18/2002	7/31/2002
057999-029A	570-708-0.6	27	mg/L	9905	0.8	4	7/18/2002	7/31/2002
057999-031A	570-708-1.5	0.33	mg/L	9905	0.2	1	7/18/2002	7/31/2002

Qualifiers:

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Advanced Technology Laboratories

Date: 8/1/2002

LEAD BY ATOMIC ABSORPTION
WET/ EPA 7420

CLIENT:	Ninyo & Moore	**Lab Order:**	057999
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/20/2002
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057999-032A	570-707-0	15	mg/L	9905	0.4	2	7/18/2002	7/31/2002
057999-033A	570-707-0.3	5.2	mg/L	9905	0.2	1	7/18/2002	7/31/2002
057999-034A	570-707-0.6	25	mg/L	9905	0.8	4	7/18/2002	7/31/2002
057999-036A	570-701-0	6.8	mg/L	9905	0.2	1	7/18/2002	7/31/2002
057999-038A	570-701-0.6	16	mg/L	9905	0.4	2	7/18/2002	7/31/2002
057999-041A	570-703-0	55	mg/L	9905	2	10	7/18/2002	7/31/2002
057999-042A	570-703-0.3	30	mg/L	9905	0.8	4	7/18/2002	7/31/2002
057999-043A	570-704-0	63	mg/L	9905	2	10	7/18/2002	7/31/2002
057999-044A	570-704-0.3	22	mg/L	9905	0.8	4	7/18/2002	7/31/2002
057999-045A	570-519-0	1.6	mg/L	9905	0.2	1	7/18/2002	7/31/2002
057999-050A	570-702-0	0.30	mg/L	9905	0.2	1	7/18/2002	7/31/2002

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Advanced Technology Laboratories

Date: 8/1/2002

LEAD BY ATOMIC ABSORPTION
WET/ EPA 7420

CLIENT:	Ninyo & Moore	**Lab Order:**	057999
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/20/2002
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057999-056A	570-706-0.3	60	mg/L	9905	2	10	7/18/2002	7/31/2002

Qualifiers:

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Advanced Technology Laboratories

Date: 8/7/2002

LEAD BY ATOMIC ABSORPTION
WET DI/ EPA 7420

CLIENT: Ninyo & Moore
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Project No:
PO No:

Lab Order: 057999
Date Received: 7/20/2002
Matrix: Soil
Analyst: NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057999-002A	570-713-0	ND	mg/L	10034	0.2	1	7/18/2002	8/7/2002
057999-003A	570-713-0.3	ND	mg/L	10034	0.2	1	7/18/2002	8/7/2002
057999-004A	570-713-0.6	ND	mg/L	10034	0.2	1	7/18/2002	8/7/2002
057999-007A	570-712-0	ND	mg/L	10034	0.2	1	7/18/2002	8/7/2002
057999-014A	570-711-0.6	ND	mg/L	10034	0.2	1	7/18/2002	8/7/2002
057999-019A	570-710-0.6	ND	mg/L	10034	0.2	1	7/18/2002	8/7/2002
057999-024A	570-709-0.6	ND	mg/L	10034	0.2	1	7/18/2002	8/7/2002
057999-029A	570-708-0.6	ND	mg/L	10034	0.2	1	7/18/2002	8/7/2002
057999-032A	570-707-0	ND	mg/L	10034	0.2	1	7/18/2002	8/7/2002
057999-033A	570-707-0.3	ND	mg/L	10034	0.2	1	7/18/2002	8/7/2002
057999-034A	570-707-0.6	ND	mg/L	10035	0.2	1	7/18/2002	8/7/2002

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Advanced Technology Laboratories

Date: 8/7/2002

LEAD BY ATOMIC ABSORPTION
WET DI/ EPA 7420

CLIENT:	Ninyo & Moore	**Lab Order:**	057999
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/20/2002
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057999-036A	570-701-0	ND	mg/L	10035	0.2	1	7/18/2002	8/7/2002
057999-038A	570-701-0.6	ND	mg/L	10035	0.2	1	7/18/2002	8/7/2002
057999-041A	570-703-0	ND	mg/L	10035	0.2	1	7/18/2002	8/7/2002
057999-042A	570-703-0.3	ND	mg/L	10035	0.2	1	7/18/2002	8/7/2002
057999-043A	570-704-0	0.33	mg/L	10035	0.2	1	7/18/2002	8/7/2002
057999-044A	570-704-0.3	0.25	mg/L	10035	0.2	1	7/18/2002	8/7/2002
057999-056A	570-706-0.3	0.42	mg/L	10035	0.2	1	7/18/2002	8/7/2002

Qualifiers:

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Date: *14-Aug-02*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	570-711-1.5
Lab Order:	057999		
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Collection Date:**	7/18/2002 9:17:00 AM
Lab ID:	057999-016A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS						
	(EPA 3050A)			**EPA 6010B**		
RunID: ICP5_020810C	QC Batch: 10214					Analyst: **RQ**
Antimony	ND	2.5		mg/Kg	10	8/10/2002
Arsenic	ND	2.5		mg/Kg	10	8/10/2002
Barium	180	1.5		mg/Kg	10	8/10/2002
Beryllium	ND	1.5		mg/Kg	10	8/10/2002
Cadmium	ND	1.5		mg/Kg	10	8/10/2002
Chromium	20	1.5		mg/Kg	10	8/10/2002
Cobalt	14	1.5		mg/Kg	10	8/10/2002
Copper	23	1.5		mg/Kg	10	8/10/2002
Molybdenum	ND	2.5		mg/Kg	10	8/10/2002
Nickel	17	1.5		mg/Kg	10	8/10/2002
Selenium	10	2.5		mg/Kg	10	8/10/2002
Silver	ND	1.5		mg/Kg	10	8/10/2002
Thallium	ND	2.5		mg/Kg	10	8/10/2002
Vanadium	51	1.5		mg/Kg	10	8/10/2002
Zinc	64	5.0		mg/Kg	10	8/10/2002
MERCURY BY COLD VAPOR TECHNIQUE						
	(EPA 7471)			**EPA 7471A**		
RunID: AA1_020812C	QC Batch: 10168					Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1	8/12/2002

Qualifiers:

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Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *14-Aug-02*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	570-709-0
Lab Order:	057999		
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Collection Date:**	7/18/2002 9:45:00 AM
Lab ID:	057999-022A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS						
	(EPA 3050A)			**EPA 6010B**		
RunID: ICP5_020810C	QC Batch: 10214					Analyst: **RQ**
Antimony	ND	2.5		mg/Kg	10	8/10/2002
Arsenic	ND	2.5		mg/Kg	10	8/10/2002
Barium	120	1.5		mg/Kg	10	8/10/2002
Beryllium	ND	1.5		mg/Kg	10	8/10/2002
Cadmium	ND	1.5		mg/Kg	10	8/10/2002
Chromium	14	1.5		mg/Kg	10	8/10/2002
Cobalt	9.7	1.5		mg/Kg	10	8/10/2002
Copper	20	1.5		mg/Kg	10	8/10/2002
Molybdenum	ND	2.5		mg/Kg	10	8/10/2002
Nickel	11	1.5		mg/Kg	10	8/10/2002
Selenium	15	2.5		mg/Kg	10	8/10/2002
Silver	ND	1.5		mg/Kg	10	8/10/2002
Thallium	ND	2.5		mg/Kg	10	8/10/2002
Vanadium	34	1.5		mg/Kg	10	8/10/2002
Zinc	130	5.0		mg/Kg	10	8/10/2002
MERCURY BY COLD VAPOR TECHNIQUE						
	(EPA 7471)			**EPA 7471A**		
RunID: AA1_020812D	QC Batch: 10169					Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1	8/12/2002

Qualifiers:

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DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: *14-Aug-02*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	570-703-0.3
Lab Order:	057999		
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Collection Date:**	7/18/2002 8:58:00 AM
Lab ID:	057999-042A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS						
	(EPA 3050A)			**EPA 6010B**		
RunID: ICP5_020810C	QC Batch: 10214					Analyst: **RQ**
Antimony	ND	2.5		mg/Kg	10	8/10/2002
Arsenic	3.9	2.5		mg/Kg	10	8/10/2002
Barium	140	1.5		mg/Kg	10	8/10/2002
Beryllium	ND	1.5		mg/Kg	10	8/10/2002
Cadmium	ND	1.5		mg/Kg	10	8/10/2002
Chromium	21	1.5		mg/Kg	10	8/10/2002
Cobalt	12	1.5		mg/Kg	10	8/10/2002
Copper	36	1.5		mg/Kg	10	8/10/2002
Molybdenum	ND	2.5		mg/Kg	10	8/10/2002
Nickel	16	1.5		mg/Kg	10	8/10/2002
Selenium	10	2.5		mg/Kg	10	8/10/2002
Silver	ND	1.5		mg/Kg	10	8/10/2002
Thallium	ND	2.5		mg/Kg	10	8/10/2002
Vanadium	42	1.5		mg/Kg	10	8/10/2002
Zinc	190	5.0		mg/Kg	10	8/10/2002
MERCURY BY COLD VAPOR TECHNIQUE						
	(EPA 7471)			**EPA 7471A**		
RunID: AA1_020813F	QC Batch: 10207					Analyst: **NS**
Mercury	0.11	0.10		mg/Kg	1	8/13/2002

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H - Sample exceeded analytical holding time
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Date: *14-Aug-02*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	570-706-0
Lab Order:	057999		
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Collection Date:**	7/18/2002 9:15:00 AM
Lab ID:	057999-055A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS						
	(EPA 3050A)			**EPA 6010B**		
RunID: ICP5_020810C	QC Batch: 10214					Analyst: **RQ**
Antimony	ND	2.5		mg/Kg	10	8/10/2002
Arsenic	3.1	2.5		mg/Kg	10	8/10/2002
Barium	160	1.5		mg/Kg	10	8/10/2002
Beryllium	ND	1.5		mg/Kg	10	8/10/2002
Cadmium	ND	1.5		mg/Kg	10	8/10/2002
Chromium	24	1.5		mg/Kg	10	8/10/2002
Cobalt	13	1.5		mg/Kg	10	8/10/2002
Copper	61	1.5		mg/Kg	10	8/10/2002
Molybdenum	ND	2.5		mg/Kg	10	8/10/2002
Nickel	21	1.5		mg/Kg	10	8/10/2002
Selenium	12	2.5		mg/Kg	10	8/10/2002
Silver	ND	1.5		mg/Kg	10	8/10/2002
Thallium	ND	2.5		mg/Kg	10	8/10/2002
Vanadium	46	1.5		mg/Kg	10	8/10/2002
Zinc	270	5.0		mg/Kg	10	8/10/2002
MERCURY BY COLD VAPOR TECHNIQUE						
	(EPA 7471)			**EPA 7471A**		
RunID: AA1_020812D	QC Batch: 10169					Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1	8/12/2002

Qualifiers:

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Advanced Technology Laboratories

Date: 8/19/2002

LEAD BY ATOMIC ABSORPTION
EPA 1311/ 7420

CLIENT:	Ninyo & Moore	**Lab Order:**	057999
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/20/2002
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057999-002A	570-713-0	0.28	mg/L	10400	0.2	1	7/18/2002	8/16/2002
057999-003A	570-713-0.3	0.68	mg/L	10400	0.2	1	7/18/2002	8/16/2002
057999-004A	570-713-0.6	1.3	mg/L	10400	0.2	1	7/18/2002	8/16/2002
057999-009A	570-712-0.6	0.88	mg/L	10089	0.2	1	7/18/2002	8/6/2002
057999-014A	570-711-0.6	1.4	mg/L	10400	0.2	1	7/18/2002	8/16/2002
057999-019A	570-710-0.6	0.77	mg/L	10368	0.2	1	7/18/2002	8/15/2002
057999-022A	570-709-0	ND	mg/L	10089	0.2	1	7/18/2002	8/6/2002
057999-024A	570-709-0.6	0.51	mg/L	10368	0.2	1	7/18/2002	8/15/2002
057999-029A	570-708-0.6	0.50	mg/L	10368	0.2	1	7/18/2002	8/15/2002
057999-032A	570-707-0	ND	mg/L	10369	0.2	1	7/18/2002	8/15/2002
057999-034A	570-707-0.6	0.65	mg/L	10369	0.2	1	7/18/2002	8/15/2002

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Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: 8/19/2002

LEAD BY ATOMIC ABSORPTION
EPA 1311/ 7420

CLIENT:	Ninyo & Moore	**Lab Order:**	057999
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/20/2002
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057999-038A	570-701-0.6	0.23	mg/L	10369	0.2	1	7/18/2002	8/15/2002
057999-041A	570-703-0	0.92	mg/L	10369	0.2	1	7/18/2002	8/15/2002
057999-042A	570-703-0.3	3.5	mg/L	10400	0.2	1	7/18/2002	8/16/2002
057999-043A	570-704-0	0.51	mg/L	10369	0.2	1	7/18/2002	8/15/2002
057999-044A	570-704-0.3	0.35	mg/L	10369	0.2	1	7/18/2002	8/15/2002
057999-055A	570-706-0	1.6	mg/L	10089	0.2	1	7/18/2002	8/6/2002
057999-056A	570-706-0.3	1.2	mg/L	10400	0.2	1	7/18/2002	8/16/2002

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Advanced Technology Laboratories

Date: *19-Aug-02*

CLIENT: Ninyo & Moore
Work Order: 057999
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10034

Sample ID: **MB-10034** SampType: **mblk** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/7/2002** Run ID: **AA2_020807C**
Client ID: **ZZZZZ** Batch ID: **10034** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/7/2002** SeqNo: **314845**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-10034A** SampType: **mblk** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/1/2002** Run ID: **AA2_020807C**
Client ID: **ZZZZZ** Batch ID: **10034** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/7/2002** SeqNo: **314846**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-10034B** SampType: **mblk** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/1/2002** Run ID: **AA2_020807C**
Client ID: **ZZZZZ** Batch ID: **10034** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/7/2002** SeqNo: **314859**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-10034** SampType: **lcs** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/7/2002** Run ID: **AA2_020807C**
Client ID: **ZZZZZ** Batch ID: **10034** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/7/2002** SeqNo: **314873**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.349	0.20	7.5	0	98	80	120	0	0		

Sample ID: **057998-054AMS** SampType: **MS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/7/2002** Run ID: **AA2_020807C**
Client ID: **ZZZZZ** Batch ID: **10034** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/7/2002** SeqNo: **314858**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.961	0.20	5	0.1424	96.4	80	120	0	0		

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Calculations are based on raw values
DO - Surrogate diluted out
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CLIENT: Ninyo & Moore
Work Order: 057999
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10034

Sample ID: **057999-033AMS** SampType: **MS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/7/2002** Run ID: **AA2_020807C**
Client ID: **570-707-0.3** Batch ID: **10034** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/7/2002** SeqNo: **314871**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.909	0.20	5	0	98.2	80	120	0	0		

Sample ID: **057998-054ADUP** SampType: **DUP** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/1/2002** Run ID: **AA2_020807C**
Client ID: **ZZZZZ** Batch ID: **10034** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/7/2002** SeqNo: **314857**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.07963	0.20	0	0	0	0	0	0.1424	0	30	J

Sample ID: **057999-033ADUP** SampType: **DUP** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/1/2002** Run ID: **AA2_020807C**
Client ID: **570-707-0.3** Batch ID: **10034** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/7/2002** SeqNo: **314870**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20	0	0	0	0	0	0	0	30	

Qualifiers:
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Calculations are based on raw values
DO - Surrogate diluted out
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CLIENT: Ninyo & Moore
Work Order: 057999
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10035

Sample ID: **MB-10035** SampType: **mblk** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/7/2002** Run ID: **AA2_020807D**
Client ID: **ZZZZZ** Batch ID: **10035** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/7/2002** SeqNo: **314874**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-10035A** SampType: **mblk** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/1/2002** Run ID: **AA2_020807D**
Client ID: **ZZZZZ** Batch ID: **10035** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/7/2002** SeqNo: **314875**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-10035B** SampType: **mblk** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/1/2002** Run ID: **AA2_020807D**
Client ID: **ZZZZZ** Batch ID: **10035** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/7/2002** SeqNo: **314888**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.05907	0.20									

Sample ID: **LCS-10035** SampType: **lcs** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/7/2002** Run ID: **AA2_020807D**
Client ID: **ZZZZZ** Batch ID: **10035** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/7/2002** SeqNo: **314902**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.49	0.20	7.5	0	99.9	80	120	0	0		

Sample ID: **058000-012AMS** SampType: **MS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/7/2002** Run ID: **AA2_020807D**
Client ID: **ZZZZZ** Batch ID: **10035** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/7/2002** SeqNo: **314887**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.393	0.20	5	0.2781	102	80	120	0	0		

Qualifiers:
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Calculations are based on raw values
DO - Surrogate diluted out
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CLIENT: Ninyo & Moore
Work Order: 057999
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10035

Sample ID: **058000-029AMS** SampType: **MS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/7/2002** Run ID: **AA2_020807D**
Client ID: **ZZZZZ** Batch ID: **10035** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/7/2002** SeqNo: **314900**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.922	0.20	5	0.06788	97.1	80	120	0	0		

Sample ID: **058000-012ADUP** SampType: **DUP** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/1/2002** Run ID: **AA2_020807D**
Client ID: **ZZZZZ** Batch ID: **10035** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/7/2002** SeqNo: **314886**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.4161	0.20	0	0	0	0	0	0.2781	39.8	30	R

Sample ID: **058000-029ADUP** SampType: **DUP** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/1/2002** Run ID: **AA2_020807D**
Client ID: **ZZZZZ** Batch ID: **10035** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/7/2002** SeqNo: **314899**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.05691	0.20	0	0	0	0	0	0.06788	0	30	J

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CLIENT: Ninyo & Moore
Work Order: 057999
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10089

Sample ID: **MB-10089** SampType: **mblk** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806J**
Client ID: **ZZZZZ** Batch ID: **10089** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314634**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-10080-TCLP** SampType: **mblk** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806J**
Client ID: **ZZZZZ** Batch ID: **10089** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314635**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-10089** SampType: **lcs** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806J**
Client ID: **ZZZZZ** Batch ID: **10089** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314648**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.134	0.20	1	0	113	80	120	0	0		

Sample ID: **058021-007AMS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806J**
Client ID: **ZZZZZ** Batch ID: **10089** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314646**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	8.899	0.20	2.5	6.518	95.2	80	120	0	0		

Sample ID: **058021-007ADUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806J**
Client ID: **ZZZZZ** Batch ID: **10089** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314645**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.801	0.20	0	0	0	0	0	6.518	79.8	30	R

Qualifiers:
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Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

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CLIENT: Ninyo & Moore
Work Order: 057999
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10168

Sample ID: **MB-10168** SampType: **MBLK** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020812C**
Client ID: **ZZZZZ** Batch ID: **10168** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/12/2002** SeqNo: **316983**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: **LCS-10168** SampType: **LCS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020812C**
Client ID: **ZZZZZ** Batch ID: **10168** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/12/2002** SeqNo: **316982**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.032	0.10	2.08	0	97.7	80	120	0	0		

Sample ID: **057999-016AMS** SampType: **MS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020812C**
Client ID: **570-711-1.5** Batch ID: **10168** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/12/2002** SeqNo: **316980**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.9936	0.10	0.83	0.05175	113	62	146	0	0		

Sample ID: **057999-016AMSD** SampType: **MSD** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020812C**
Client ID: **570-711-1.5** Batch ID: **10168** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/12/2002** SeqNo: **316981**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.9878	0.10	0.83	0.05175	113	62	146	0.9936	0.582	33	

Sample ID: **057999-016ADUP** SampType: **DUP** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020812C**
Client ID: **570-711-1.5** Batch ID: **10168** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/12/2002** SeqNo: **316979**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.0746	0.10	0	0	0	0	0	0.05175	0	30	J

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 10169

Sample ID: **MB-10169** SampType: **mblk** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020812D**
Client ID: **ZZZZZ** Batch ID: **10169** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/12/2002** SeqNo: **317160**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: **LCS-10169** SampType: **lcs** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020812D**
Client ID: **ZZZZZ** Batch ID: **10169** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/12/2002** SeqNo: **317159**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.833	0.10	2.08	0	88.1	80	120	0	0		

Sample ID: **058020-058AMS** SampType: **MS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020812D**
Client ID: **ZZZZZ** Batch ID: **10169** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/12/2002** SeqNo: **317157**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.9644	0.10	0.83	0.09029	105	62	146	0	0		

Sample ID: **058020-058AMSD** SampType: **MSD** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020812D**
Client ID: **ZZZZZ** Batch ID: **10169** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/12/2002** SeqNo: **317158**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.9574	0.10	0.83	0.09029	104	62	146	0.9644	0.726	33	

Sample ID: **058020-058ADUP** SampType: **DUP** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020812D**
Client ID: **ZZZZZ** Batch ID: **10169** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/12/2002** SeqNo: **317156**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.08648	0.10	0	0	0	0	0	0.09029	0	30	J

Qualifiers:
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Calculations are based on raw values
DO - Surrogate diluted out
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ANALYTICAL QC SUMMARY REPORT

BatchID: 10207

Sample ID: **MB-10207** SampType: **mblk** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020813F**
Client ID: **ZZZZZ** Batch ID: **10207** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/13/2002** SeqNo: **318517**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: **LCS-10207** SampType: **lcs** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020813F**
Client ID: **ZZZZZ** Batch ID: **10207** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/13/2002** SeqNo: **318516**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.081	0.10	2.08	0	100	80	120	0	0		

Sample ID: **058021-054AMS** SampType: **MS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020813F**
Client ID: **ZZZZZ** Batch ID: **10207** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/13/2002** SeqNo: **318514**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.9716	0.10	0.83	0.0326	113	62	146	0	0		

Sample ID: **058021-054AMSD** SampType: **MSD** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020813F**
Client ID: **ZZZZZ** Batch ID: **10207** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/13/2002** SeqNo: **318515**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.935	0.10	0.83	0.0326	109	62	146	0.9716	3.84	33	

Sample ID: **058021-054ADUP** SampType: **DUP** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020813F**
Client ID: **ZZZZZ** Batch ID: **10207** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/13/2002** SeqNo: **318513**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10	0	0	0	0	0	0.0326	0	30	

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 10214

Sample ID: **MB-10214** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/9/2002** Run ID: **ICP5_020810C**
Client ID: **ZZZZZ** Batch ID: **10214** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316649**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.1718	0.25									
Arsenic	0.04361	0.25									
Barium	ND	0.15									
Beryllium	ND	0.15									
Cadmium	ND	0.15									
Chromium	ND	0.15									
Cobalt	0.01124	0.15									
Copper	ND	0.15									
Molybdenum	0.07668	0.25									
Nickel	0.00859	0.15									
Selenium	0.08038	0.25									
Silver	ND	0.15									
Thallium	ND	0.25									
Vanadium	ND	0.15									
Zinc	0.01372	0.50									

Sample ID: **LCS-10214** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/9/2002** Run ID: **ICP5_020810C**
Client ID: **ZZZZZ** Batch ID: **10214** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316648**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	47.37	0.25	50	0	94.7	80	120	0	0		
Arsenic	49.23	0.25	50	0	98.5	80	120	0	0		
Barium	50.87	0.15	50	0	102	80	120	0	0		
Beryllium	50.48	0.15	50	0	101	80	120	0	0		
Cadmium	50.45	0.15	50	0	101	80	120	0	0		
Chromium	51.14	0.15	50	0	102	80	120	0	0		
Cobalt	50.06	0.15	50	0	100	80	120	0	0		
Copper	49	0.15	50	0	98	80	120	0	0		
Molybdenum	48.81	0.25	50	0	97.6	80	120	0	0		
Nickel	48.87	0.15	50	0	97.7	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike/Surrogate outside limits due to matrix interference; DO - Surrogate diluted out
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ANALYTICAL QC SUMMARY REPORT

BatchID: 10214

Sample ID: **LCS-10214** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/9/2002** Run ID: **ICP5_020810C**
Client ID: **ZZZZZ** Batch ID: **10214** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316648**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	49.08	0.25	50	0	98.2	80	120	0	0		
Silver	49.37	0.15	50	0	98.7	80	120	0	0		
Thallium	47.17	0.25	50	0	94.3	80	120	0	0		
Vanadium	52	0.15	50	0	104	80	120	0	0		
Zinc	48.86	0.50	50	0	97.7	80	120	0	0		

Sample ID: **058000-028AMS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/9/2002** Run ID: **ICP5_020810C**
Client ID: **ZZZZZ** Batch ID: **10214** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316645**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	74.17	2.5	125	0	59.3	32	115	0	0		
Arsenic	126.9	2.5	125	6.085	96.6	59	111	0	0		
Barium	321.8	1.5	125	208.7	90.5	34	151	0	0		
Beryllium	120.4	1.5	125	0	96.3	56	112	0	0		
Cadmium	128.5	1.5	125	4.104	99.5	52	120	0	0		
Chromium	174.2	1.5	125	46.43	102	56	118	0	0		
Cobalt	136.2	1.5	125	12.97	98.6	58	117	0	0		
Copper	157.2	1.5	125	68.99	70.6	58	134	0	0		
Molybdenum	126.6	2.5	125	7.406	95.3	56	115	0	0		
Nickel	166.3	1.5	125	46.76	95.7	52	120	0	0		
Selenium	134.7	2.5	125	16.42	94.6	46	108	0	0		
Silver	122.4	1.5	125	0	97.9	74	117	0	0		
Thallium	104.8	2.5	125	0	83.8	62	117	0	0		
Vanadium	232.5	1.5	125	98.92	107	55	122	0	0		
Zinc	225.8	5.0	125	102.5	98.6	43	134	0	0		

Sample ID: **058000-028AMSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/9/2002** Run ID: **ICP5_020810C**
Client ID: **ZZZZZ** Batch ID: **10214** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316646**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; S - Spike/Surrogate outside limits due to matrix interference; B - Analyte detected in the associated Method Blank; **Calculations are based on raw values**; DO - Surrogate diluted out; H - Sample exceeded holding time

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ANALYTICAL QC SUMMARY REPORT

BatchID: 10214

Sample ID: **058000-028AMSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/9/2002** Run ID: **ICP5_020810C**
Client ID: **ZZZZZ** Batch ID: **10214** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316646**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	66.7	2.5	125	0	53.4	32	115	74.17	10.6	20	
Arsenic	123.5	2.5	125	6.085	94	59	111	126.9	2.66	20	
Barium	339.6	1.5	125	208.7	105	34	151	321.8	5.40	20	
Beryllium	117.6	1.5	125	0	94.1	56	112	120.4	2.37	20	
Cadmium	125.6	1.5	125	4.104	97.2	52	120	128.5	2.34	20	
Chromium	174.5	1.5	125	46.43	102	56	118	174.2	0.137	20	
Cobalt	133.9	1.5	125	12.97	96.8	58	117	136.2	1.68	20	
Copper	152	1.5	125	68.99	66.4	58	134	157.2	3.39	20	
Molybdenum	122.9	2.5	125	7.406	92.4	56	115	126.6	2.95	20	
Nickel	170.9	1.5	125	46.76	99.3	52	120	166.3	2.73	20	
Selenium	137.6	2.5	125	16.42	97	46	108	134.7	2.16	20	
Silver	119.9	1.5	125	0	95.9	74	117	122.4	2.01	20	
Thallium	104.6	2.5	125	0	83.7	62	117	104.8	0.104	20	
Vanadium	235.9	1.5	125	98.92	110	55	122	232.5	1.49	20	
Zinc	224.7	5.0	125	102.5	97.8	43	134	225.8	0.455	20	

Sample ID: **058000-028ADUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/9/2002** Run ID: **ICP5_020810C**
Client ID: **ZZZZZ** Batch ID: **10214** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316644**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.1277	2.5	0	0	0	0	0	0	0	30	J
Arsenic	7.906	2.5	0	0	0	0	0	6.085	26.0	30	
Barium	260	1.5	0	0	0	0	0	208.7	21.9	30	
Beryllium	ND	1.5	0	0	0	0	0	0	0	30	
Cadmium	4.654	1.5	0	0	0	0	0	4.104	12.6	30	
Chromium	48.65	1.5	0	0	0	0	0	46.43	4.67	30	
Cobalt	11.26	1.5	0	0	0	0	0	12.97	14.1	30	
Copper	37.08	1.5	0	0	0	0	0	68.99	60.2	30	R
Molybdenum	9.152	2.5	0	0	0	0	0	7.406	21.1	30	
Nickel	50.81	1.5	0	0	0	0	0	46.76	8.31	30	

Qualifiers: ND - Not Detected at the Reporting Limit
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ANALYTICAL QC SUMMARY REPORT

BatchID: 10214

Sample ID: **058000-028ADUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/9/2002** Run ID: **ICP5_020810C**
Client ID: **ZZZZZ** Batch ID: **10214** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316644**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	15.47	2.5	0	0	0	0	0	16.42	5.96	30	
Silver	ND	1.5	0	0	0	0	0	0	0	30	
Thallium	ND	2.5	0	0	0	0	0	0	0	30	
Vanadium	105.5	1.5	0	0	0	0	0	98.92	6.47	30	
Zinc	114.5	5.0	0	0	0	0	0	102.5	11.0	30	

Qualifiers: ND - Not Detected at the Reporting Limit
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ANALYTICAL QC SUMMARY REPORT

BatchID: 10368

Sample ID: **MB-10368** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/14/2002** Run ID: **AA2_020814**
Client ID: **ZZZZZ** Batch ID: **10368** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/15/2002** SeqNo: **319111**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-10277-TCLP** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/14/2002** Run ID: **AA2_020814**
Client ID: **ZZZZZ** Batch ID: **10368** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/15/2002** SeqNo: **319112**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.05056	0.20									

Sample ID: **LCS-10368** SampType: **LCS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/14/2002** Run ID: **AA2_020814**
Client ID: **ZZZZZ** Batch ID: **10368** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/15/2002** SeqNo: **319126**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.103	0.20	1	0	110	80	120	0	0		

Sample ID: **057999-029AMS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/14/2002** Run ID: **AA2_020814**
Client ID: **570-708-0.6** Batch ID: **10368** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/15/2002** SeqNo: **319124**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.975	0.20	2.5	0.5022	98.9	80	120	0	0		

Sample ID: **057999-029ADUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/14/2002** Run ID: **AA2_020814**
Client ID: **570-708-0.6** Batch ID: **10368** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/15/2002** SeqNo: **319123**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.4492	0.20	0	0	0	0	0	0.5022	11.2	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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Calculations are based on raw values
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H - Sample exceeded holding time

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ANALYTICAL QC SUMMARY REPORT

BatchID: 10369

Sample ID: **MB-10369** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/14/2002** Run ID: **AA2_020814]**
Client ID: **ZZZZZ** Batch ID: **10369** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/15/2002** SeqNo: **319127**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-10278-TCLP** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/14/2002** Run ID: **AA2_020814]**
Client ID: **ZZZZZ** Batch ID: **10369** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/15/2002** SeqNo: **319128**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-10369** SampType: **LCS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/14/2002** Run ID: **AA2_020814]**
Client ID: **ZZZZZ** Batch ID: **10369** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/15/2002** SeqNo: **319142**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.086	0.20	1	0	109	80	120	0	0		

Sample ID: **058020-040AMS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/14/2002** Run ID: **AA2_020814]**
Client ID: **ZZZZZ** Batch ID: **10369** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/15/2002** SeqNo: **319140**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.996	0.20	2.5	0.579	96.7	80	120	0	0		

Sample ID: **058020-040ADUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/14/2002** Run ID: **AA2_020814]**
Client ID: **ZZZZZ** Batch ID: **10369** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/15/2002** SeqNo: **319139**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.6001	0.20	0	0	0	0	0	0.579	3.59	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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ANALYTICAL QC SUMMARY REPORT

BatchID: 10400

Sample ID: **MB-10400** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/15/2002** Run ID: **AA2_020816C**
Client ID: **ZZZZZ** Batch ID: **10400** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/16/2002** SeqNo: **319824**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-10379-TCLP** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/15/2002** Run ID: **AA2_020816C**
Client ID: **ZZZZZ** Batch ID: **10400** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/16/2002** SeqNo: **319825**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20	0	0	0	0	0	0	0		

Sample ID: **LCS-10400** SampType: **LCS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/15/2002** Run ID: **AA2_020816C**
Client ID: **ZZZZZ** Batch ID: **10400** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/16/2002** SeqNo: **319839**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.169	0.20	1	0	117	80	120	0	0		

Sample ID: **058024-004AMS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/15/2002** Run ID: **AA2_020816C**
Client ID: **ZZZZZ** Batch ID: **10400** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/16/2002** SeqNo: **319837**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.633	0.20	2.5	1.42	129	80	120	0	0		S

Sample ID: **058024-004ADUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/15/2002** Run ID: **AA2_020816C**
Client ID: **ZZZZZ** Batch ID: **10400** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/16/2002** SeqNo: **319836**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.47	0.20	0	0	0	0	0	1.42	3.45	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9745

Sample ID: **MB-9745** SampType: **MBLK** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/22/2002** Run ID: **ICP2_020723B**
Client ID: **ZZZZZ** Batch ID: **9745** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/23/2002** SeqNo: **303590**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.0050									

Sample ID: **LCS-9745** SampType: **LCS** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/22/2002** Run ID: **ICP2_020723B**
Client ID: **ZZZZZ** Batch ID: **9745** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/23/2002** SeqNo: **303591**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.96	0.0050	1	0	96	80	120	0	0		

Sample ID: **057999-001AMS** SampType: **MS** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/22/2002** Run ID: **ICP2_020723B**
Client ID: **EB-19** Batch ID: **9745** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/23/2002** SeqNo: **303603**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.54	0.0050	2.5	0	102	66	118	0	0		

Sample ID: **057999-001ADUP** SampType: **DUP** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/22/2002** Run ID: **ICP2_020723B**
Client ID: **EB-19** Batch ID: **9745** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/23/2002** SeqNo: **303602**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.0050	0	0	0	0	0	0	0	30	

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9798

Sample ID	SampType	TestCode	Units	Prep Date	Run ID
MB-9798A	MBLK	6010_SPB	mg/Kg	7/23/2002	ICP5_020724F
Client ID: ZZZZZ	Batch ID: 9798	TestNo: EPA 6010B	(EPA 3050M)	Analysis Date: 7/24/2002	SeqNo: 305394

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID	SampType	TestCode	Units	Prep Date	Run ID
MB-9798B	MBLK	6010_SPB	mg/Kg	7/23/2002	ICP5_020724F
Client ID: ZZZZZ	Batch ID: 9798	TestNo: EPA 6010B	(EPA 3050M)	Analysis Date: 7/24/2002	SeqNo: 305395

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID	SampType	TestCode	Units	Prep Date	Run ID
LCS-9798	LCS	6010_SPB	mg/Kg	7/23/2002	ICP5_020724F
Client ID: ZZZZZ	Batch ID: 9798	TestNo: EPA 6010B	(EPA 3050M)	Analysis Date: 7/24/2002	SeqNo: 305393

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	236.7	5.0	250	0	94.7	80	120	0	0		

Sample ID	SampType	TestCode	Units	Prep Date	Run ID
057999-011AMS	MS	6010_SPB	mg/Kg	7/23/2002	ICP5_020724F
Client ID: 570-712-1.5	Batch ID: 9798	TestNo: EPA 6010B	(EPA 3050M)	Analysis Date: 7/24/2002	SeqNo: 305379

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	232.6	5.0	250	7.517	90	47	128	0	0		

Sample ID	SampType	TestCode	Units	Prep Date	Run ID
057999-021AMS	MS	6010_SPB	mg/Kg	7/23/2002	ICP5_020724F
Client ID: 570-710-1.5	Batch ID: 9798	TestNo: EPA 6010B	(EPA 3050M)	Analysis Date: 7/24/2002	SeqNo: 305391

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	219.5	5.0	250	10.64	83.5	47	128	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9798

Sample ID: **057999-011ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/23/2002** Run ID: **ICP5_020724F**
Client ID: **570-712-1.5** Batch ID: **9798** TestNo: **EPA 6010B (EPA 3050M)** Analysis Date: **7/24/2002** SeqNo: **305378**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	8.926	5.0	0	0	0	0	0	7.517	17.1	30	

Sample ID: **057999-021ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/23/2002** Run ID: **ICP5_020724F**
Client ID: **570-710-1.5** Batch ID: **9798** TestNo: **EPA 6010B (EPA 3050M)** Analysis Date: **7/24/2002** SeqNo: **305390**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	9.837	5.0	0	0	0	0	0	10.64	7.85	30	

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9799

Sample ID: **MB-9799A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/23/2002** Run ID: **ICP5_020724G**
Client ID: **ZZZZZ** Batch ID: **9799** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/24/2002** SeqNo: **305422**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **MB-9799B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/23/2002** Run ID: **ICP5_020724G**
Client ID: **ZZZZZ** Batch ID: **9799** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/24/2002** SeqNo: **305423**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-9799** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/23/2002** Run ID: **ICP5_020724G**
Client ID: **ZZZZZ** Batch ID: **9799** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/24/2002** SeqNo: **305421**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	227.6	5.0	250	0	91.1	80	120	0	0		

Sample ID: **057999-031AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/23/2002** Run ID: **ICP5_020724G**
Client ID: **570-708-1.5** Batch ID: **9799** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/24/2002** SeqNo: **305407**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	340.5	5.0	250	69.37	108	47	128	0	0		

Sample ID: **057999-041AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/23/2002** Run ID: **ICP5_020724G**
Client ID: **570-703-0** Batch ID: **9799** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/24/2002** SeqNo: **305419**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1080	5.0	250	804.6	110	47	128	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9799

Sample ID: **057999-031ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/23/2002** Run ID: **ICP5_020724G**
Client ID: **570-708-1.5** Batch ID: **9799** TestNo: **EPA 6010B (EPA 3050M)** Analysis Date: **7/24/2002** SeqNo: **305406**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	144.2	5.0	0	0	0	0	0	69.37	70.1	30	R

Sample ID: **057999-041ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/23/2002** Run ID: **ICP5_020724G**
Client ID: **570-703-0** Batch ID: **9799** TestNo: **EPA 6010B (EPA 3050M)** Analysis Date: **7/24/2002** SeqNo: **305418**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	873.9	5.0	0	0	0	0	0	804.6	8.26	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9800

Sample ID: **MB-9800A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/23/2002** Run ID: **ICP5_020724H**
Client ID: **ZZZZZ** Batch ID: **9800** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/24/2002** SeqNo: **305604**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **MB-9800B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/23/2002** Run ID: **ICP5_020724H**
Client ID: **ZZZZZ** Batch ID: **9800** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/24/2002** SeqNo: **305605**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **057999-051AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/23/2002** Run ID: **ICP5_020724H**
Client ID: **570-702-0.3** Batch ID: **9800** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/24/2002** SeqNo: **305589**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	204.2	5.0	250	12.65	76.6	47	128	0	0		

Sample ID: **058000-003AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/23/2002** Run ID: **ICP5_020724H**
Client ID: **ZZZZZ** Batch ID: **9800** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/24/2002** SeqNo: **305601**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	287.9	5.0	250	62.06	90.3	47	128	0	0		

Sample ID: **058000-003AMSD** SampType: **MSD** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/23/2002** Run ID: **ICP5_020724H**
Client ID: **ZZZZZ** Batch ID: **9800** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/24/2002** SeqNo: **305602**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	293.8	5.0	250	62.06	92.7	47	128	287.9	2.02	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9800

Sample ID: **057999-051ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/23/2002** Run ID: **ICP5_020724H**
Client ID: **570-702-0.3** Batch ID: **9800** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/24/2002** SeqNo: **305588**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	13.77	5.0	0	0	0	0	0	12.65	8.49	30	

Sample ID: **058000-003ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/23/2002** Run ID: **ICP5_020724H**
Client ID: **ZZZZZ** Batch ID: **9800** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/24/2002** SeqNo: **305600**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	58.35	5.0	0	0	0	0	0	62.06	6.18	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Ninyo & Moore
Work Order: 057999
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 9904

Sample ID: **MB-9904** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/31/2002** Run ID: **AA2_020731D**
Client ID: **ZZZZZ** Batch ID: **9904** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/31/2002** SeqNo: **310459**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9904B** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/28/2002** Run ID: **AA2_020731D**
Client ID: **ZZZZZ** Batch ID: **9904** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/31/2002** SeqNo: **310485**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9904A** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/28/2002** Run ID: **AA2_020731D**
Client ID: **ZZZZZ** Batch ID: **9904** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/31/2002** SeqNo: **310502**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-9904** SampType: **LCS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/31/2002** Run ID: **AA2_020731D**
Client ID: **ZZZZZ** Batch ID: **9904** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/31/2002** SeqNo: **310500**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.675	0.20	7.5	0	102	80	120	0	0		

Sample ID: **057998-051AMS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/31/2002** Run ID: **AA2_020731D**
Client ID: **ZZZZZ** Batch ID: **9904** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/31/2002** SeqNo: **310483**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	153.5	4.0	100	51.07	102	80	120	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Ninyo & Moore
Work Order: 057999
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 9904

Sample ID: **057999-024AMS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/31/2002** Run ID: **AA2_020731D**
Client ID: **570-709-0.6** Batch ID: **9904** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/31/2002** SeqNo: **310498**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	158	4.0	100	57.32	101	80	120	0	0		

Sample ID: **057998-051ADUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/28/2002** Run ID: **AA2_020731D**
Client ID: **ZZZZZ** Batch ID: **9904** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/31/2002** SeqNo: **310481**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	42.79	2.0	0	0	0	0	0	51.07	17.6	30	

Sample ID: **057999-024ADUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/28/2002** Run ID: **AA2_020731D**
Client ID: **570-709-0.6** Batch ID: **9904** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/31/2002** SeqNo: **310497**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	59.39	2.0	0	0	0	0	0	57.32	3.54	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Ninyo & Moore
Work Order: 057999
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 9905

Sample ID: **MB-9905A** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/28/2002** Run ID: **AA2_020731A**
Client ID: **ZZZZZ** Batch ID: **9905** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/31/2002** SeqNo: **310414**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9905B** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/28/2002** Run ID: **AA2_020731A**
Client ID: **ZZZZZ** Batch ID: **9905** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/31/2002** SeqNo: **310427**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9905** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/31/2002** Run ID: **AA2_020731A**
Client ID: **ZZZZZ** Batch ID: **9905** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/31/2002** SeqNo: **310442**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.07326	0.20									

Sample ID: **LCS-9905** SampType: **LCS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/31/2002** Run ID: **AA2_020731A**
Client ID: **ZZZZZ** Batch ID: **9905** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/31/2002** SeqNo: **310441**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.751	0.20	7.5	0	103	80	120	0	0		

Sample ID: **057999-041AMS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/31/2002** Run ID: **AA2_020731A**
Client ID: **570-703-0** Batch ID: **9905** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/31/2002** SeqNo: **310426**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	153.5	4.0	100	55.02	98.5	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike/Surrogate outside limits due to matrix interference; DO - Surrogate diluted out
J - Analyte detected below quantitation limits; B - Analyte detected in the associated Method Blank; H - Sample exceeded holding time
R - RPD outside accepted recovery limits; **Calculations are based on raw values**

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Ninyo & Moore
Work Order: 057999
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 9905

Sample ID: **057999-056AMS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/31/2002** Run ID: **AA2_020731A**
Client ID: **570-706-0.3** Batch ID: **9905** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/31/2002** SeqNo: **310439**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	163.2	4.0	100	60.03	103	80	120	0	0		

Sample ID: **057999-041ADUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/28/2002** Run ID: **AA2_020731A**
Client ID: **570-703-0** Batch ID: **9905** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/31/2002** SeqNo: **310425**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	48.67	2.0	0	0	0	0	0	55.02	12.3	30	

Sample ID: **057999-056ADUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/28/2002** Run ID: **AA2_020731A**
Client ID: **570-706-0.3** Batch ID: **9905** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/31/2002** SeqNo: **310438**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	60.41	2.0	0	0	0	0	0	60.03	0.634	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Ninyo & Moore
Work Order: 057999
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: R19742

Sample ID: **058000-034ADUP** SampType: **DUP** TestCode: **9045_S** Units: **pH Units** Prep Date: **7/23/2002** Run ID: **WETCHEM_020723G**
Client ID: **ZZZZZ** Batch ID: **R19742** TestNo: **EPA 9045C** Analysis Date: **7/23/2002** SeqNo: **305443**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	8.22	0.10	0	0	0	0	0	8.23	0.122	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

Rachelle

From: Steve Reese [sreese@ninyoandmoore.com]
Sent: Wednesday, July 31, 2002 9:27 AM
To: 'rachelle@atlglobal.com'
Cc: David Shaler (E-mail); Ruth Cheung (E-mail)
Subject: TCLP Analysis

TCLP.xls

Rachelle,
Attached please find a list of samples to be run for the TCLP analysis. Currently, we selected all of the samples that are greater than 1,000 mg/kg
of TTLC results. However, they will be ran by instruction only. There may
be more samples chosen for TCLP analysis in the future, but please run these 82 samples for now. Please call with any questions.
Thank you, Steve

Stephen S. Reese
Senior Staff Environmental Scientist
Ninyo & Moore Geotechnical & Environmental Sciences Consultants
475 Goddard, Suite 200
Irvine, California 92618
Tel: (949) 753-7070
Fax: (949) 753-7071
Email: sreese@ninyoandmoore.com
www.ninyoandmoore.com

RUN FOR TCLP ANALYSIS			
33	20	29	82
569-101-0	570-101-0	571-104-0	
569-102-0	570-101-0.6	571-120-0	
569-102-0.3	570-102-0.6	571-310-0.9	
569-102-0.9	570-103-1.5	571-317-0	
569-111-0	570-114-0.6	571-320-0	
569-112-0	570-115-0	571-325-0.6	
569-112-0.6	570-119-0.3	571-507-0	
569-201-0	570-201-0	571-511-0	
569-212-0	570-214-0	571-514-0	
569-301-0	570-311-0.6	571-524-0	
569-303-0.9	570-312-0.6	571-710-0	
569-314-0	570-504-0	571-710-0.3	
569-401-0	570-508-0	571-711-0	
569-404-0.6	570-517-0	571-711-0.3	
569-405-0.6	570-517-0.3	571-712-0	
569-408-0.9	570-610-0.6	571-712-0.3	
569-502-0.6	570-615-0	571-201-0.6	
569-516-0	570-706-0	571-405-0	
569-603-0.3	570-709-0	571-406-0	
569-607-0	570-808-0.6	571-407-0	
569-607-0.3		571-414-0	
569-609-0		571-609-0	
569-609-0.3		571-611-0	
569-703-0		571-616-0	
569-703-0.9		571-617-0	
569-705-0		571-619-1.5	
569-705-0.3		571-814-0.3	
569-706-0		571-818-0.6	
569-708-0		571-819-0	
569-710-0			
569-711-0			
569-711-0.3			
569-801-0.3			

Rachelle

From: Steve Reese [sreese@ninyoandmoore.com]
Sent: Wednesday, July 31, 2002 3:04 PM
To: Rachelle@Advanced Labs (E-mail)
Cc: David Shaler (E-mail); Ruth Cheung (E-mail)
Subject: More TCLP Analyses

TCLP-2.xls

Rachelle,
Attached please find a list of 8 more TCLP analyses. Thanks, Steve

Stephen S. Reese
Senior Staff Environmental Scientist
Ninyo & Moore Geotechnical & Environmental Sciences Consultants
475 Goddard, Suite 200
Irvine, California 92618
Tel: (949) 753-7070
Fax: (949) 753-7071
Email: sreese@ninyoandmoore.com
www.ninyoandmoore.com

RUN FOR TCLP ANALYSIS			
1	5	2	8
569-805-0.3	570-113-0.3	571-214-0.3	
	570-712-0.6	571-618-0.9	
	570-208-0		
	570-804-0		
	570-812-0.3		

Rachelle

From: Ruth Cheung [rcheung@ninyoandmoore.com]
Sent: Tuesday, August 06, 2002 3:46 PM
To: 'Rachelle'; 'David Shaler (E-mail)'
Subject: Title 22 Metals

Title 22 Metals.xls

Rachelle,
Please run the following samples for Title 22 Metals. Please do not list
Pb in your emailed results. There should be a total of 120 samples to be
run.
Thanks.

Ruth L. Cheung
Staff Environmental Scientist
Ninyo & Moore
(949) 753-7070 x2273

569-102-0.9
569-112-0
569-201-0
569-206-0.6
569-106-1.5
569-212-0
569-401-0.6
569-301-0
569-303-0.9
569-404-0.6
569-408-0.9
569-314-0
569-313-0.3
569-502-0.6
569-602-1.5
569-607-0.3
569-607-0
569-508-0.9
569-511-0.6
569-612-1.5
569-516-0
569-801-0.3
569-519-0.6
569-803-0.9
569-705-0
569-806-1.5
569-708-0.3
569-711-0
569-811-0

570-101-0
570-101-0.6
570-201-0
570-205-0.9
570-106-0.3
570-208-1.5
570-111-0.6
570-214-0
570-115-0.3
570-119-0.9
570-224-0.6
570-401-0
570-401-0.3
570-304-1.5
570-307-0.9
570-311-0.6
570-312-0.6
570-316-0.3
570-601-0
570-505-1.5
570-508-0
570-610-0.6
570-511-0.9
570-615-0
570-514-0.3
570-517-0
570-618-0.6
570-621-1.5
570-703-0.9
570-804-0
570-706-0
570-709-0
570-808-0.6
570-711-1.5
570-812-0.3

571-101-0.9
571-104-0
571-201-0.6
571-108-1.5
571-111-0.3
571-207-0
571-210-0.6
571-115-0.9
571-214-0.3
571-120-0
571-217-1.5
571-220-0.6
571-301-0.3
571-405-0
571-306-0.9
571-407-0
571-310-0.9
571-315-0.3
571-412-1.5
571-317-0
571-320-0.6
571-416-0.9
571-325-0.3
571-421-1.5
571-425-0
571-501-0.6
571-503-0.9
571-603-0.3
571-507-0
571-609-0
571-510-1.5
571-611-0
571-514-0
571-614-0.3
571-517-0.9
571-617-0.6
571-520-1.5
571-621-0.3
571-524-0
571-624-0.9
571-529-0.3
571-628-0.6
571-703-1.5
571-707-0
571-804-0.9
571-809-0.3
571-711-0
571-712-0
571-814-0.3
571-818-0.6
571-819-0
571-827-1.5

571-832-0.9
571-836-0.3
571-837-0.6
571-842-0

Rachelle

From: Ruth Cheung [rcheung@ninyoandmoore.com]
Sent: Wednesday, August 07, 2002 10:28 AM
To: 'Rachelle'
Subject: RE: Title 22 Metals

Sorry for the mistake. Please change to the following:
569-602-1.5 to 0.6
569-803-0.9 to 0.6
571-217-1.5 to 0.6
571-320-0.6 to 0
571-421-1.5 to 0
571-503-0.9 to 0.6
571-510-1.5 to 0.6
571-520-1.5 to 0
571-703-1.5 to 0.6
571-804-0.9 to 0.6
571-827-1.5 to 0.3
571-837-0.6 to 0.3
570-119-0.9 to 0.6
570-208-1.5 to 0.3
570-621-1.5 to 0.3
570-703-0.9 to 0.3

thanks.

Ruth L. Cheung
Staff Environmental Scientist
Ninyo & Moore
(949) 753-7070 x2273

-----Original Message-----
From: Rachelle [SMTP:Rachelle@ATLGlobal.com]
Sent: Wednesday, August 07, 2002 9:49 AM
To: 'Ruth Cheung'
Subject: RE: Title 22 Metals

Hi Ruth,
Please check if the following samples exist, I don't see it on our database:
569-602-1.5
569-803-0.9
571-217-1.5
571-320-0.6
571-421-1.5
571-503-0.9
571-510-1.5
571-520-1.5
571-703-1.5
571-804-0.9
571-827-1.5
571-837-0.6
570-119-0.9
570-208-1.5
570-621-1.5
570-703-0.9
If it does exist, can you let me know when it was collected so I can track
them.
Thanks,
Rachelle
-----Original Message-----
From: Ruth Cheung [mailto:rcheung@ninyoandmoore.com]

Sent: Tuesday, August 06, 2002 3:46 PM
To: 'Rachelle'; 'David Shaler (E-mail)'
Subject: Title 22 Metals

Rachelle,
Please run the following samples for Title 22 Metals. Please do not list
Pb in your emailed results. There should be a total of 120 samples to be
run.
Thanks.

Ruth L. Cheung
Staff Environmental Scientist
Ninyo & Moore
(949) 753-7070 x2273

Rachelle

From: Ruth Cheung [rcheung@ninyoandmoore.com]
Sent: Thursday, August 08, 2002 9:14 AM
To: 'Rachelle'
Subject: TCLP Analysis

TCLP-3.xls

In addition to the 90 TCLP already run please run the following samples for
TCLP. There should be a list of 350 samples.
Thanks for a the hard work and timely results.

Ruth L. Cheung
Staff Environmental Scientist
Ninyo & Moore
(949) 753-7070 x2273

-----Original Message-----
From: Rachelle [SMTP:Rachelle@ATLGlobal.com]
Sent: Wednesday, August 07, 2002 5:02 PM
To: 'David Shaler (E-mail)'
Cc: 'Ruth Cheung (E-mail)'
Subject: TCLP Results

<<57931TCLP.xls>> <<58001TCLP.xls>> <<58021TCLP.xls>>
<<58022TCLP.xls>>
<<58023TCLP.xls>> <<58024TCLP.xls>> <<58049TCLP.xls>>
<<58050TCLP.xls>>
<<58052TCLP.xls>> <<58053TCLP.xls>> <<58065TCLP.xls>>
<<58066TCLP.xls>>
<<58067TCLP.xls>> <<58068TCLP.xls>> <<58069TCLP.xls>>

Rachelle Arada
Project Coordinator
www.atlglobal.com
voice: 562.989.4045 ext 237
fax : 562.989.4040

<< File: 57931TCLP.xls >> << File: 58001TCLP.xls >> << File: 58021TCLP.xls >> << File: 58022TCLP.xls >> << File: 58023TCLP.xls >> << File: 58024TCLP.xls >> << File: 58049TCLP.xls >> << File: 58050TCLP.xls >> << File: 58052TCLP.xls >> << File: 58053TCLP.xls >> << File: 58065TCLP.xls >> << File: 58066TCLP.xls >> << File: 58067TCLP.xls >> << File: 58068TCLP.xls >> << File: 58069TCLP.xls >>

569-404-0	2. STLC	170
569-402-0	2. STLC	130
569-406-0	2. STLC	120
569-515-0	2. STLC	110
569-611-0	2. STLC	100
569-409-0	2. STLC	94
569-603-0	2. STLC	93
569-104-0.6	2. STLC	91
569-807-0	2. STLC	86
569-608-0	2. STLC	86
569-501-0	2. STLC	84
569-710-0.3	2. STLC	83
569-808-0	2. STLC	83
569-609-0.6	2. STLC	80
569-803-0	2. STLC	79
569-105-0	2. STLC	78
569-512-0	2. STLC	77
569-513-0	2. STLC	77
569-302-0	2. STLC	74
569-805-0	2. STLC	73
569-517-0	2. STLC	71
569-704-0.3	2. STLC	71
569-703-0.6	2. STLC	70
569-514-0.3	2. STLC	70
569-803-0.3	2. STLC	69
569-409-0.6	2. STLC	69
569-411-0	2. STLC	68
569-102-0.6	2. STLC	68
569-809-0	2. STLC	65
569-605-0	2. STLC	65
569-711-0.6	2. STLC	62
569-806-0	2. STLC	60
569-802-0.3	2. STLC	60
569-410-0	2. STLC	59
569-501-0.6	2. STLC	59
569-808-0.3	2. STLC	58
569-104-0	2. STLC	56
569-804-0	2. STLC	54
569-610-0	2. STLC	54
569-608-0.3	2. STLC	53
569-213-0	2. STLC	49
569-701-0	2. STLC	47
569-311-0	2. STLC	47
569-609-0.9	2. STLC	46
569-513-0.3	2. STLC	45
569-801-0.6	2. STLC	44
569-514-0	2. STLC	42
569-805-0.6	2. STLC	42
569-408-1.5	2. STLC	42
569-807-0.3	2. STLC	40
569-204-0	2. STLC	40
569-517-0.3	2. STLC	36
569-518-0	2. STLC	36
569-806-0.3	2. STLC	36
569-705-1.5	2. STLC	35
569-303-0.6	2. STLC	34
569-516-0.3	2. STLC	33
569-705-0.6	2. STLC	33
569-802-0	2. STLC	33
569-515-0.6	2. STLC	32
569-704-0	2. STLC	32
569-401-0.3	2. STLC	32
569-207-0	2. STLC	32
569-608-0.6	2. STLC	31
569-104-0.3	2. STLC	31
569-201-0.6	2. STLC	30
569-515-0.3	2. STLC	28
569-212-0.6	2. STLC	28
569-103-0	2. STLC	28
569-313-0	2. STLC	27
569-103-0.3	2. STLC	26
569-705-0.9	2. STLC	25
569-707-0.3	2. STLC	25
569-515-1.5	2. STLC	24
569-508-0	2. STLC	24
569-801-0	2. STLC	24
569-402-0.6	2. STLC	24
569-516-0.6	2. STLC	22
569-509-0.3	2. STLC	22
569-106-0	2. STLC	22
569-106-0.3	2. STLC	22
569-202-0	2. STLC	21
569-805-1.5	2. STLC	21
569-205-0	2. STLC	20
569-707-0	2. STLC	19

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570-114-0.0	2. STLC	110
570-504-0.6	2. STLC	100
570-811-1.5	2. STLC	90
570-615-0.6	2. STLC	84
570-305-0	2. STLC	79
570-314-0.6	2. STLC	76
570-505-0.6	2. STLC	75
570-208-0.6	2. STLC	74
570-116-0.0	2. STLC	73
570-102-0	2. STLC	65
570-804-0.6	2. STLC	64
570-704-0	2. STLC	63
570-508-0.6	2. STLC	60
570-706-0.3	2. STLC	60
570-303-0	2. STLC	58
570-311-1.5	2. STLC	58
570-117-0.0	2. STLC	58
570-208-0.3	2. STLC	58
570-709-0.6	2. STLC	57
570-703-0	2. STLC	55
570-206-0	2. STLC	54
570-301-0	2. STLC	53
570-603-0.3	2. STLC	46
570-711-0.6	2. STLC	46
570-206-0.3	2. STLC	45
570-103-0	2. STLC	44
570-602-0	2. STLC	41
570-209-0	2. STLC	40
570-210-0	2. STLC	40
570-117-0.3	2. STLC	39
570-103-0.6	2. STLC	37
570-110-0.6	2. STLC	37
570-805-0.9	2. STLC	36
570-112-1.5	2. STLC	35
570-614-0	2. STLC	34
570-713-0.3	2. STLC	33
570-513-0	2. STLC	32
570-312-0.3	2. STLC	31
570-503-0.6	2. STLC	31
570-510-0.6	2. STLC	31
570-202-0	2. STLC	31
570-207-0	2. STLC	31
570-209-0.3	2. STLC	31
570-703-0.3	2. STLC	30
570-401-0	2. STLC	30
570-610-0.9	2. STLC	29
570-809-0.6	2. STLC	29
570-509-0.9	2. STLC	29
570-210-0.6	2. STLC	29
570-211-0	2. STLC	29
570-603-0	2. STLC	28
570-119-0	2. STLC	28
570-713-0.6	2. STLC	28
570-109-0	2. STLC	27
570-708-0.6	2. STLC	27
570-224-0	2. STLC	26
570-601-0	2. STLC	26
570-710-0.6	2. STLC	26
570-614-0.6	2. STLC	26
570-118-0.3	2. STLC	26
570-304-0	2. STLC	25
570-707-0.6	2. STLC	25
570-510-0	2. STLC	25
570-110-0	2. STLC	24
570-223-0	2. STLC	24
570-117-0.6	2. STLC	24
570-616-0	2. STLC	23
570-704-0.3	2. STLC	22
570-513-0.6	2. STLC	22
570-221-0.0	2. STLC	22
570-617-0	2. STLC	21
570-214-0.3	2. STLC	21
570-122-0.9	2. STLC	20
570-313-0.6	2. STLC	19
570-207-0.6	2. STLC	19
570-120-0.9	2. STLC	18
570-506-0	2. STLC	18
570-102-0.9	2. STLC	17
570-216-0	2. STLC	17
570-225-0	2. STLC	17
570-304-0.3	2. STLC	17
570-409-0	2. STLC	17
570-713-0	2. STLC	17

571-521-0	2. STLC	230
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571-818-0	2. STLC	110
571-819-0.6	2. STLC	110
571-708-0	2. STLC	110
571-103-0.6	2. STLC	110
571-617-0.3	2. STLC	100
571-611-0.6	2. STLC	92
571-712-0.9	2. STLC	81
571-105-0.6	2. STLC	81
571-313-0	2. STLC	79
571-508-0	2. STLC	73
571-518-0.3	2. STLC	73
571-217-0	2. STLC	68
571-516-0	2. STLC	66
571-701-0.3	2. STLC	66
571-710-0.6	2. STLC	65
571-512-0	2. STLC	64
571-308-0.9	2. STLC	61
571-701-0	2. STLC	61
571-514-0.3	2. STLC	59
571-415-0	2. STLC	58
571-616-0.6	2. STLC	57
571-517-0	2. STLC	56
571-112-0.9	2. STLC	56
571-214-0	2. STLC	55
571-415-0.3	2. STLC	55
571-405-0.6	2. STLC	55
571-530-0	2. STLC	55
571-831-0	2. STLC	53
571-709-0	2. STLC	53
571-103-0.0	2. STLC	52
571-312-0	2. STLC	51
571-526-0	2. STLC	51
571-819-1.5	2. STLC	51
571-515-0	2. STLC	50
571-833-0	2. STLC	49
571-815-0.6	2. STLC	47
571-517-0.3	2. STLC	46
571-610-0	2. STLC	46
571-413-0	2. STLC	46
571-815-0	2. STLC	45
571-514-0.9	2. STLC	44
571-505-1.5	2. STLC	44
571-528-0	2. STLC	44
571-610-0.6	2. STLC	43
571-629-0	2. STLC	43
571-604-0	2. STLC	42
571-213-0	2. STLC	41
571-812-0	2. STLC	41
571-706-0	2. STLC	41
571-530-0.6	2. STLC	41
571-305-0	2. STLC	40
571-523-0.3	2. STLC	39
571-510-0	2. STLC	39
571-305-0.9	2. STLC	39
571-818-1.5	2. STLC	39
571-703-0	2. STLC	38
571-520-0.3	2. STLC	36
571-216-0	2. STLC	34
571-827-0	2. STLC	34
571-708-0.3	2. STLC	34
571-514-0.6	2. STLC	33
571-528-1.5	2. STLC	33
571-803-0	2. STLC	33
571-414-0.3	2. STLC	33
571-813-0.3	2. STLC	32
571-523-0	2. STLC	31
571-326-0	2. STLC	31
571-502-0.6	2. STLC	31
571-624-1.5	2. STLC	31
571-330-0	2. STLC	31
571-512-0.3	2. STLC	30
571-521-0.6	2. STLC	29
571-706-0.3	2. STLC	29
571-814-0.6	2. STLC	28
571-616-1.5	2. STLC	28
571-835-0	2. STLC	28
571-811-0.3	2. STLC	28
571-101-0.6	2. STLC	28
571-112-0	2. STLC	28
571-315-0	2. STLC	27
571-622-0	2. STLC	27
571-607-0.6	2. STLC	27
571-609-0.6	2. STLC	27

569-709-0	2. STLC	19
569-202-0.3	2. STLC	19
569-602-0	2. STLC	19
569-207-0.3	2. STLC	19
569-706-0.3	2. STLC	17
569-807-0.9	2. STLC	17
569-104-0.9	2. STLC	17
569-505-0.6	2. STLC	17
569-704-0.6	2. STLC	16
569-808-0.6	2. STLC	16
569-212-0.3	2. STLC	16
569-612-0	2. STLC	16
569-704-1.5	2. STLC	15
569-411-0.3	2. STLC	15
569-113-0	2. STLC	15
569-807-0.6	2. STLC	14
569-311-0.3	2. STLC	12
569-312-0	2. STLC	10
569-311-0.9	2. STLC	8.3

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570-401-0.3	2. STLC	17
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570-308-0	2. STLC	16
570-807-0.9	2. STLC	16
570-701-0.6	2. STLC	16
570-617-0.3	2. STLC	16
570-107-0.6	2. STLC	15
570-611-0.6	2. STLC	15
570-707-0	2. STLC	15
570-518-0	2. STLC	15
570-111-0.0	2. STLC	15
570-109-0.6	2. STLC	14
570-401-0.9	2. STLC	4.1
570-408-0	2. STLC	4
570-409-0.3	2. STLC	3
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570-401-1.5		0
570-408-0.6		0
570-408-1.5		0

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571-837-0.3	2. STLC	27
571-520-0	2. STLC	26
571-516-0.3	2. STLC	26
571-420-0	2. STLC	26
571-102-0.6	2. STLC	26
571-517-1.5	2. STLC	25
571-513-0.6	2. STLC	25
571-623-0.6	2. STLC	25
571-112-0.3	2. STLC	25
571-326-0.6	2. STLC	24
571-619-0.3	2. STLC	24
571-619-0.9	2. STLC	24
571-528-0.3	2. STLC	24
571-706-0.6	2. STLC	24
571-112-0.6	2. STLC	24
571-327-0.6	2. STLC	23
571-817-0	2. STLC	23
571-425-0.6	2. STLC	22
571-118-0	2. STLC	22
571-829-0	2. STLC	22
571-828-0	2. STLC	22
571-122-0	2. STLC	21
571-101-1.5	2. STLC	21
571-530-0.3	2. STLC	21
571-406-0.6	2. STLC	20
571-517-0.6	2. STLC	20
571-835-0.3	2. STLC	20
571-501-0	2. STLC	20
571-518-0.9	2. STLC	19
571-510-0.3	2. STLC	19
571-814-0.9	2. STLC	19
571-522-0.6	2. STLC	19
571-622-1.5	2. STLC	19
571-812-0.6	2. STLC	19
571-701-0.6	2. STLC	19
571-704-0	2. STLC	19
571-711-0.6	2. STLC	19
571-212-0	2. STLC	18
571-839-0.6	2. STLC	18
571-610-1.5	2. STLC	18
571-709-0.3	2. STLC	18
571-311-0.6	2. STLC	17
571-620-0	2. STLC	17
571-109-0	2. STLC	17
571-704-0.3	2. STLC	17
571-207-1.5	2. STLC	16
571-203-0	2. STLC	16
571-616-0.3	2. STLC	16
571-317-0.3	2. STLC	16
571-629-0.3	2. STLC	16
571-416-0	2. STLC	15
571-419-0	2. STLC	15
571-526-0.3	2. STLC	15
571-619-0	2. STLC	15
571-606-0	2. STLC	15
571-115-0.6	2. STLC	14
571-202-0.9	2. STLC	11

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tblTEMP

WorkOrder	ClientSampID	TestNo	Analyte	PQL	DF	CollectionDate	AnalDate	PrepDate
057999	570-519-0	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-519-0	WET/ EPA 7420	Lead	0.2	1	7/18/2002	7/31/2002	7/28/2002
057999	570-519-0.3	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-519-0.6	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-519-0.9	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-519-1.5	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-701-0	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-701-0	WET DI/ EPA 7420	Lead	0.2	1	7/18/2002	8/7/2002	8/1/2002
057999	570-701-0	WET/ EPA 7420	Lead	0.2	1	7/18/2002	7/31/2002	7/28/2002
057999	570-701-0.3	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-701-0.6	EPA 1311/ 7420	Lead	0.2	1	7/18/2002	8/15/2002	8/14/2002
057999	570-701-0.6	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-701-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/18/2002	8/7/2002	8/1/2002
057999	570-701-0.6	WET/ EPA 7420	Lead	0.4	2	7/18/2002	7/31/2002	7/28/2002
057999	570-701-0.9	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-701-1.5	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-702-0	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-702-0	WET/ EPA 7420	Lead	0.2	1	7/18/2002	7/31/2002	7/28/2002
057999	570-702-0.3	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-702-0.6	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-702-0.9	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-702-1.5	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-703-0	EPA 1311/ 7420	Lead	0.2	1	7/18/2002	8/15/2002	8/14/2002
057999	570-703-0	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-703-0	WET DI/ EPA 7420	Lead	0.2	1	7/18/2002	8/7/2002	8/1/2002
057999	570-703-0	WET/ EPA 7420	Lead	2	10	7/18/2002	7/31/2002	7/28/2002
057999	570-703-0.3	EPA 1311/ 7420	Lead	0.2	1	7/18/2002	8/16/2002	8/15/2002
057999	570-703-0.3	EPA 6010B	Antimony	2.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-703-0.3	EPA 6010B	Arsenic	2.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-703-0.3	EPA 6010B	Barium	1.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-703-0.3	EPA 6010B	Beryllium	1.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-703-0.3	EPA 6010B	Cadmium	1.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-703-0.3	EPA 6010B	Chromium	1.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-703-0.3	EPA 6010B	Cobalt	1.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-703-0.3	EPA 6010B	Copper	1.5	10	7/18/2002	8/10/2002	8/9/2002

057999	570-703-0.3	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-703-0.3	EPA 6010B	Molybdenum	2.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-703-0.3	EPA 6010B	Nickel	1.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-703-0.3	EPA 6010B	Selenium	2.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-703-0.3	EPA 6010B	Silver	1.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-703-0.3	EPA 6010B	Thallium	2.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-703-0.3	EPA 6010B	Vanadium	1.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-703-0.3	EPA 6010B	Zinc	5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-703-0.3	EPA 7471A	Mercury	0.1	1	7/18/2002	8/13/2002	8/7/2002
057999	570-703-0.3	EPA 9045C	pH	0.1	1	7/18/2002	7/23/2002	7/23/2002
057999	570-703-0.3	WET DI/ EPA 7420	Lead	0.2	1	7/18/2002	8/7/2002	8/1/2002
057999	570-703-0.3	WET/ EPA 7420	Lead	0.8	4	7/18/2002	7/31/2002	7/28/2002
057999	570-704-0	EPA 1311/ 7420	Lead	0.2	1	7/18/2002	8/15/2002	8/14/2002
057999	570-704-0	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-704-0	WET DI/ EPA 7420	Lead	0.2	1	7/18/2002	8/7/2002	8/1/2002
057999	570-704-0	WET/ EPA 7420	Lead	2	10	7/18/2002	7/31/2002	7/28/2002
057999	570-704-0.3	EPA 1311/ 7420	Lead	0.2	1	7/18/2002	8/15/2002	8/14/2002
057999	570-704-0.3	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-704-0.3	WET DI/ EPA 7420	Lead	0.2	1	7/18/2002	8/7/2002	8/1/2002
057999	570-704-0.3	WET/ EPA 7420	Lead	0.8	4	7/18/2002	7/31/2002	7/28/2002
057999	570-706-0	EPA 1311/ 7420	Lead	0.2	1	7/18/2002	8/6/2002	8/5/2002
057999	570-706-0	EPA 6010B	Antimony	2.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-706-0	EPA 6010B	Arsenic	2.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-706-0	EPA 6010B	Barium	1.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-706-0	EPA 6010B	Beryllium	1.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-706-0	EPA 6010B	Cadmium	1.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-706-0	EPA 6010B	Chromium	1.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-706-0	EPA 6010B	Cobalt	1.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-706-0	EPA 6010B	Copper	1.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-706-0	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-706-0	EPA 6010B	Molybdenum	2.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-706-0	EPA 6010B	Nickel	1.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-706-0	EPA 6010B	Selenium	2.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-706-0	EPA 6010B	Silver	1.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-706-0	EPA 6010B	Thallium	2.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-706-0	EPA 6010B	Vanadium	1.5	10	7/18/2002	8/10/2002	8/9/2002

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057999	570-706-0	EPA 6010B	Zinc	5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-706-0	EPA 7471A	Mercury	0.1	1	7/18/2002	8/12/2002	8/7/2002
057999	570-706-0.3	EPA 1311/ 7420	Lead	0.2	1	7/18/2002	8/16/2002	8/15/2002
057999	570-706-0.3	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-706-0.3	EPA 9045C	pH	0.1	1	7/18/2002	7/23/2002	7/23/2002
057999	570-706-0.3	WET DI/ EPA 7420	Lead	0.2	1	7/18/2002	8/7/2002	8/1/2002
057999	570-706-0.3	WET/ EPA 7420	Lead	2	10	7/18/2002	7/31/2002	7/28/2002
057999	570-706-0.6	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-706-0.9	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-706-1.5	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-707-0	EPA 1311/ 7420	Lead	0.2	1	7/18/2002	8/15/2002	8/14/2002
057999	570-707-0	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-707-0	EPA 9045C	pH	0.1	1	7/18/2002	7/23/2002	7/23/2002
057999	570-707-0	WET DI/ EPA 7420	Lead	0.2	1	7/18/2002	8/7/2002	8/1/2002
057999	570-707-0	WET/ EPA 7420	Lead	0.4	2	7/18/2002	7/31/2002	7/28/2002
057999	570-707-0.3	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-707-0.3	WET DI/ EPA 7420	Lead	0.2	1	7/18/2002	8/7/2002	8/1/2002
057999	570-707-0.3	WET/ EPA 7420	Lead	0.2	1	7/18/2002	7/31/2002	7/28/2002
057999	570-707-0.6	EPA 1311/ 7420	Lead	0.2	1	7/18/2002	8/15/2002	8/14/2002
057999	570-707-0.6	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-707-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/18/2002	8/7/2002	8/1/2002
057999	570-707-0.6	WET/ EPA 7420	Lead	0.8	4	7/18/2002	7/31/2002	7/28/2002
057999	570-707-0.9	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-708-0	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-708-0	WET/ EPA 7420	Lead	0.2	1	7/18/2002	7/31/2002	7/28/2002
057999	570-708-0.3	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-708-0.6	EPA 1311/ 7420	Lead	0.2	1	7/18/2002	8/15/2002	8/14/2002
057999	570-708-0.6	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-708-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/18/2002	8/7/2002	8/1/2002
057999	570-708-0.6	WET/ EPA 7420	Lead	0.8	4	7/18/2002	7/31/2002	7/28/2002
057999	570-708-0.9	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-708-1.5	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-708-1.5	WET/ EPA 7420	Lead	0.2	1	7/18/2002	7/31/2002	7/28/2002
057999	570-709-0	EPA 1311/ 7420	Lead	0.2	1	7/18/2002	8/6/2002	8/5/2002
057999	570-709-0	EPA 6010B	Antimony	2.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-709-0	EPA 6010B	Arsenic	2.5	10	7/18/2002	8/10/2002	8/9/2002

057999	570-709-0	EPA 6010B	Barium	1.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-709-0	EPA 6010B	Beryllium	1.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-709-0	EPA 6010B	Cadmium	1.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-709-0	EPA 6010B	Chromium	1.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-709-0	EPA 6010B	Cobalt	1.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-709-0	EPA 6010B	Copper	1.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-709-0	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-709-0	EPA 6010B	Molybdenum	2.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-709-0	EPA 6010B	Nickel	1.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-709-0	EPA 6010B	Selenium	2.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-709-0	EPA 6010B	Silver	1.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-709-0	EPA 6010B	Thallium	2.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-709-0	EPA 6010B	Vanadium	1.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-709-0	EPA 6010B	Zinc	5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-709-0	EPA 7471A	Mercury	0.1	1	7/18/2002	8/12/2002	8/7/2002
057999	570-709-0	EPA 9045C	pH	0.1	1	7/18/2002	7/23/2002	7/23/2002
057999	570-709-0.3	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-709-0.6	EPA 1311/ 7420	Lead	0.2	1	7/18/2002	8/15/2002	8/14/2002
057999	570-709-0.6	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-709-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/18/2002	8/7/2002	8/1/2002
057999	570-709-0.6	WET/ EPA 7420	Lead	2	10	7/18/2002	7/31/2002	7/28/2002
057999	570-709-0.9	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-709-1.5	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-709-1.5	WET/ EPA 7420	Lead	0.2	1	7/18/2002	7/31/2002	7/28/2002
057999	570-710-0	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-710-0.3	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-710-0.6	EPA 1311/ 7420	Lead	0.2	1	7/18/2002	8/15/2002	8/14/2002
057999	570-710-0.6	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-710-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/18/2002	8/7/2002	8/1/2002
057999	570-710-0.6	WET/ EPA 7420	Lead	0.8	4	7/18/2002	7/31/2002	7/28/2002
057999	570-710-0.9	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-710-1.5	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-711-0	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-711-0	EPA 9045C	pH	0.1	1	7/18/2002	7/23/2002	7/23/2002
057999	570-711-0.3	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-711-0.6	EPA 1311/ 7420	Lead	0.2	1	7/18/2002	8/16/2002	8/15/2002

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057999	570-711-0.6	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-711-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/18/2002	8/7/2002	8/1/2002
057999	570-711-0.6	WET/ EPA 7420	Lead	2	10	7/18/2002	7/31/2002	7/28/2002
057999	570-711-0.9	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-711-1.5	EPA 6010B	Antimony	2.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-711-1.5	EPA 6010B	Arsenic	2.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-711-1.5	EPA 6010B	Barium	1.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-711-1.5	EPA 6010B	Beryllium	1.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-711-1.5	EPA 6010B	Cadmium	1.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-711-1.5	EPA 6010B	Chromium	1.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-711-1.5	EPA 6010B	Cobalt	1.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-711-1.5	EPA 6010B	Copper	1.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-711-1.5	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-711-1.5	EPA 6010B	Molybdenum	2.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-711-1.5	EPA 6010B	Nickel	1.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-711-1.5	EPA 6010B	Selenium	2.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-711-1.5	EPA 6010B	Silver	1.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-711-1.5	EPA 6010B	Thallium	2.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-711-1.5	EPA 6010B	Vanadium	1.5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-711-1.5	EPA 6010B	Zinc	5	10	7/18/2002	8/10/2002	8/9/2002
057999	570-711-1.5	EPA 7471A	Mercury	0.1	1	7/18/2002	8/12/2002	8/7/2002
057999	570-712-0	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-712-0	WET DI/ EPA 7420	Lead	0.2	1	7/18/2002	8/7/2002	8/1/2002
057999	570-712-0	WET/ EPA 7420	Lead	0.4	2	7/18/2002	7/31/2002	7/28/2002
057999	570-712-0.3	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-712-0.6	EPA 1311/ 7420	Lead	0.2	1	7/18/2002	8/6/2002	8/5/2002
057999	570-712-0.6	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-712-0.9	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-712-1.5	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-713-0	EPA 1311/ 7420	Lead	0.2	1	7/18/2002	8/16/2002	8/15/2002
057999	570-713-0	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-713-0	EPA 9045C	pH	0.1	1	7/18/2002	7/23/2002	7/23/2002
057999	570-713-0	WET DI/ EPA 7420	Lead	0.2	1	7/18/2002	8/7/2002	8/1/2002
057999	570-713-0	WET/ EPA 7420	Lead	0.4	2	7/18/2002	7/31/2002	7/28/2002
057999	570-713-0.3	EPA 1311/ 7420	Lead	0.2	1	7/18/2002	8/16/2002	8/15/2002
057999	570-713-0.3	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002

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057999	570-713-0.3	WET DI/ EPA 7420	Lead	0.2	1	7/18/2002	8/7/2002	8/1/2002
057999	570-713-0.3	WET/ EPA 7420	Lead	0.8	4	7/18/2002	7/31/2002	7/28/2002
057999	570-713-0.6	EPA 1311/ 7420	Lead	0.2	1	7/18/2002	8/16/2002	8/15/2002
057999	570-713-0.6	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-713-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/18/2002	8/7/2002	8/1/2002
057999	570-713-0.6	WET/ EPA 7420	Lead	0.8	4	7/18/2002	7/31/2002	7/28/2002
057999	570-713-0.9	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	570-713-1.5	EPA 6010B	Lead	5	1	7/18/2002	7/24/2002	7/23/2002
057999	EB-19	EPA 6010B	Lead	0.005	1	7/18/2002	7/23/2002	7/22/2002

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August 19, 2002

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NINYO & MOORE
ORANGE COUNTY OFFICE

David Shaler
Ninyo & Moore
475 Goddard Suite 200
Irvine, CA 92618
TEL: (949) 753-7070
FAX: (949) 753-7071

ELAP No.: 1838
NELAP No.: 02107CA
Workorder No.: 057931

RE: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

Attention: David Shaler

Enclosed are the results for sample(s) received on July 15, 2002 by Advanced Technology Laboratories and tested for the parameters indicated in the enclosed chain of custody.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

for

Eddie F. Rodriguez
Laboratory Director

This cover letter is an integral part of this analytical report.

Laboratory	Site	Consultant
Advanced Technology Laboratories 3275 Walnut Avenue, Signal Hill, CA 90807 Tel. (562) 989-4045 Fax (562) 989-6348	Caltrans/I-10 (605-57)/Lead Survey TO 07-117070-PX Project # 203939001	Ninyo & Moore - David Shaler/Steve Reese 475 Goddard, Suite 200, Irvine, CA 92618 Tel. (949) 753-7070 Fax (949) 753-7071

Special Instructions
See Project specifications. 5 Day TAT. Fax COC to Steve Reise

Relinquished by: (name/date/time) 7-15-02
Received by: (name/date/time) 5:10 P 7-15-02
Relinquished by: (name/date/time) 7-15-02 6:40p
Received by: (name/date/time) 7/15/02 6:35 pm

Lab No	Sample I.D	Date	Time	Sample container P=plastic B=brass	Analyses: Total Lead EPA Method 6010	Analyses: pH EPA Method 9045
	EB-1	7/15/02	[illegible]	P	X	
	570-201-0		11:20	B	X	X
	570-201-0.3		11:24		X	
	570-201-0.6		11:29		X	
	570-201-0.9		11:33		X	
	570-201-1.5		11:39		X	
	570-202-0		11:40		X	
	570-202-0.3		11:42		X	
	570-202-0.6		11:45		X	
	570-202-0.9		11:48		X	
	570-202-1.5		12:00		X	
	570-203-0		12:10		X	X
	570-203-0.3		12:12		X	
	570-203-0.6		12:15		X	
	570-204-0		12:08		X	
	570-204-0.3		12:15		X	
	570-205-0		12:25		X	
	570-205-0.3		12:30		X	
	570-205-0.6		12:35		X	
	570-205-0.9		12:40		X	
	570-206-0		1:20		X	
	570-206-0.3		1:23		X	X
	570-206-0.6		1:25		X	
	570-206-0.9		1:27		X	
	570-206-1.5		1:30		X	
	570-207-0		13:33		X	
	570-207-0.3		13:38		X	
	570-207-0.6		13:42		X	
	570-208-0		13:48		X	
	570-208-0.3		13:51		X	
	570-208-0.6		13:55		X	
	570-209-0		1:50		X	X
	570-209-0.3		1:53		X	
	570-209-0.6		1:56		X	
	570-209-0.9		1:58		X	
	570-210-0		14:12		X	
	570-210-0.3		14:17		X	
	570-210-0.6		14:20		X	
	570-211-0		2:20		X	
	570-211-0.3		2:23		X	
	570-211-0.6		2:27		X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	

Total # of samples: 41

Advanced Technology Laboratories

Date: *22-Jul-02*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	EB-1
Lab Order:	057931		
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Collection Date:**	7/15/2002 3:30:00 PM
Lab ID:	057931-001A	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
LEAD BY ICP	**(EPA 3010A)**			**EPA 6010B**		
RunID: ICP2_020718A	QC Batch: 9623					Analyst: **RQ**
Lead	ND	0.0050		mg/L	1	7/18/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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Date: 7/22/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057931
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/15/2002 6:35:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057931-002A	570-201-0	1400	mg/Kg	9601	5	1	7/15/2002	7/17/2002
057931-003A	570-201-0.3	57	mg/Kg	9601	5	1	7/15/2002	7/17/2002
057931-004A	570-201-0.6	6.0	mg/Kg	9601	5	1	7/15/2002	7/17/2002
057931-005A	570-201-0.9	50	mg/Kg	9601	5	1	7/15/2002	7/17/2002
057931-006A	570-201-1.5	170	mg/Kg	9601	5	1	7/15/2002	7/17/2002
057931-007A	570-202-0	460	mg/Kg	9601	5	1	7/15/2002	7/17/2002
057931-008A	570-202-0.3	120	mg/Kg	9601	5	1	7/15/2002	7/17/2002
057931-009A	570-202-0.6	65	mg/Kg	9601	5	1	7/15/2002	7/17/2002
057931-010A	570-202-0.9	180	mg/Kg	9601	5	1	7/15/2002	7/17/2002
057931-011A	570-202-1.5	250	mg/Kg	9601	5	1	7/15/2002	7/17/2002
057931-012A	570-203-0	130	mg/Kg	9601	5	1	7/15/2002	7/17/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: 7/22/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057931
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/15/2002 6:35:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057931-013A	570-203-0.3	88	mg/Kg	9601	5	1	7/15/2002	7/17/2002
057931-014A	570-203-0.6	130	mg/Kg	9601	5	1	7/15/2002	7/17/2002
057931-015A	570-204-0	150	mg/Kg	9601	5	1	7/15/2002	7/17/2002
057931-016A	570-204-0.3	94	mg/Kg	9601	5	1	7/15/2002	7/17/2002
057931-017A	570-205-0	64	mg/Kg	9601	5	1	7/15/2002	7/17/2002
057931-018A	570-205-0.3	16	mg/Kg	9601	5	1	7/15/2002	7/17/2002
057931-019A	570-205-0.6	15	mg/Kg	9601	5	1	7/15/2002	7/17/2002
057931-020A	570-205-0.9	32	mg/Kg	9601	5	1	7/15/2002	7/17/2002
057931-021A	570-206-0	650	mg/Kg	9601	5	1	7/15/2002	7/17/2002
057931-022A	570-206-0.3	700	mg/Kg	9602	5	1	7/15/2002	7/17/2002
057931-023A	570-206-0.6	200	mg/Kg	9602	5	1	7/15/2002	7/17/2002

Qualifiers:

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DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: 7/22/2002

LEAD BY ICP
EPA 6010B

CLIENT: Ninyo & Moore
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Project No:
PO No:

Lab Order: 057931
Date Received: 7/15/2002 6:35:0
Matrix: Soil
Analyst: RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057931-024A	570-206-0.9	30	mg/Kg	9602	5	1	7/15/2002	7/17/2002
057931-025A	570-206-1.5	12	mg/Kg	9602	5	1	7/15/2002	7/17/2002
057931-026A	570-207-0	320	mg/Kg	9602	5	1	7/15/2002	7/17/2002
057931-027A	570-207-0.3	59	mg/Kg	9602	5	1	7/15/2002	7/17/2002
057931-028A	570-207-0.6	250	mg/Kg	9602	5	1	7/15/2002	7/17/2002
057931-029A	570-208-0	1000	mg/Kg	9602	5	1	7/15/2002	7/17/2002
057931-030A	570-208-0.3	780	mg/Kg	9602	5	1	7/15/2002	7/17/2002
057931-031A	570-208-0.6	770	mg/Kg	9602	5	1	7/15/2002	7/17/2002
057931-032A	570-209-0	470	mg/Kg	9602	5	1	7/15/2002	7/17/2002
057931-033A	570-209-0.3	580	mg/Kg	9602	5	1	7/15/2002	7/17/2002
057931-034A	570-209-0.6	130	mg/Kg	9602	5	1	7/15/2002	7/17/2002

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Advanced Technology Laboratories

Date: 7/22/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057931
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/15/2002 6:35:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057931-035A	570-209-0.9	98	mg/Kg	9602	5	1	7/15/2002	7/17/2002
057931-036A	570-210-0	640	mg/Kg	9602	5	1	7/15/2002	7/17/2002
057931-037A	570-210-0.3	110	mg/Kg	9602	5	1	7/15/2002	7/17/2002
057931-038A	570-210-0.6	400	mg/Kg	9602	5	1	7/15/2002	7/17/2002
057931-039A	570-211-0	470	mg/Kg	9602	5	1	7/15/2002	7/17/2002
057931-040A	570-211-0.3	60	mg/Kg	9602	5	1	7/15/2002	7/17/2002
057931-041A	570-211-0.6	35	mg/Kg	9602	5	1	7/15/2002	7/17/2002

Qualifiers:

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DO - Surrogate Diluted Out
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Date: 7/22/2002

pH
EPA 9045C

CLIENT:	Ninyo & Moore	**Lab Order:**	057931
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/15/2002 6:35:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057931-002A	570-201-0	7.43	pH Units	R19530	0.1	1	7/15/2002	7/18/2002
057931-012A	570-203-0	8.14	pH Units	R19530	0.1	1	7/15/2002	7/18/2002
057931-022A	570-206-0.3	7.01	pH Units	R19530	0.1	1	7/15/2002	7/18/2002
057931-032A	570-209-0	5.82	pH Units	R19530	0.1	1	7/15/2002	7/18/2002

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Date: 7/29/2002

LEAD BY ATOMIC ABSORPTION
WET/ EPA 7420

CLIENT: Ninyo & Moore
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Project No:
PO No:

Lab Order: 057931
Date Received: 7/15/2002 6:35:0
Matrix: Soil
Analyst: NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057931-003A	570-201-0.3	5.3	mg/L	9748	0.2	1	7/15/2002	7/25/2002
057931-005A	570-201-0.9	2.5	mg/L	9748	0.2	1	7/15/2002	7/25/2002
057931-006A	570-201-1.5	14	mg/L	9748	0.4	2	7/15/2002	7/25/2002
057931-007A	570-202-0	31	mg/L	9748	0.8	4	7/15/2002	7/25/2002
057931-008A	570-202-0.3	6.4	mg/L	9748	0.2	1	7/15/2002	7/25/2002
057931-009A	570-202-0.6	3.6	mg/L	9748	0.2	1	7/15/2002	7/25/2002
057931-010A	570-202-0.9	11	mg/L	9748	0.4	2	7/15/2002	7/25/2002
057931-011A	570-202-1.5	14	mg/L	9748	0.4	2	7/15/2002	7/25/2002
057931-012A	570-203-0	6.8	mg/L	9748	0.2	1	7/15/2002	7/25/2002
057931-013A	570-203-0.3	7.4	mg/L	9748	0.2	1	7/15/2002	7/25/2002
057931-014A	570-203-0.6	5.1	mg/L	9748	0.2	1	7/15/2002	7/25/2002

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Date: 7/29/2002

LEAD BY ATOMIC ABSORPTION WET/ EPA 7420

CLIENT: Ninyo & Moore
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Project No:
PO No:

Lab Order: 057931
Date Received: 7/15/2002 6:35:0
Matrix: Soil
Analyst: NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057931-015A	570-204-0	8.5	mg/L	9748	0.2	1	7/15/2002	7/25/2002
057931-016A	570-204-0.3	7.3	mg/L	9748	0.2	1	7/15/2002	7/25/2002
057931-017A	570-205-0	2.6	mg/L	9748	0.2	1	7/15/2002	7/25/2002
057931-021A	570-206-0	54	mg/L	9749	1.6	8	7/15/2002	7/25/2002
057931-022A	570-206-0.3	45	mg/L	9749	1.6	8	7/15/2002	7/25/2002
057931-023A	570-206-0.6	11	mg/L	9749	0.4	2	7/15/2002	7/25/2002
057931-026A	570-207-0	31	mg/L	9749	1	5	7/15/2002	7/25/2002
057931-027A	570-207-0.3	6.2	mg/L	9749	0.2	1	7/15/2002	7/25/2002
057931-028A	570-207-0.6	19	mg/L	9749	0.4	2	7/15/2002	7/25/2002
057931-030A	570-208-0.3	58	mg/L	9749	1.6	8	7/15/2002	7/25/2002
057931-031A	570-208-0.6	74	mg/L	9749	1.6	8	7/15/2002	7/25/2002

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Date: 7/29/2002

LEAD BY ATOMIC ABSORPTION WET/ EPA 7420

CLIENT: Ninyo & Moore
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Project No:
PO No:

Lab Order: 057931
Date Received: 7/15/2002 6:35:0
Matrix: Soil
Analyst: NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057931-032A	570-209-0	40	mg/L	9749	1.6	8	7/15/2002	7/25/2002
057931-033A	570-209-0.3	31	mg/L	9749	0.8	4	7/15/2002	7/25/2002
057931-034A	570-209-0.6	7.5	mg/L	9749	0.2	1	7/15/2002	7/25/2002
057931-035A	570-209-0.9	7.8	mg/L	9749	0.2	1	7/15/2002	7/25/2002
057931-036A	570-210-0	40	mg/L	9749	1.6	8	7/15/2002	7/25/2002
057931-037A	570-210-0.3	3.2	mg/L	9749	0.2	1	7/15/2002	7/25/2002
057931-038A	570-210-0.6	29	mg/L	9749	0.8	4	7/15/2002	7/25/2002
057931-039A	570-211-0	29	mg/L	9749	0.8	4	7/15/2002	7/25/2002
057931-040A	570-211-0.3	2.2	mg/L	9749	0.2	1	7/15/2002	7/25/2002

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Advanced Technology Laboratories

Date: 7/29/2002

LEAD BY ATOMIC ABSORPTION WET/ EPA 7420

CLIENT: Ninyo & Moore
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Project No:
PO No:

Lab Order: 057931
Date Received: 7/15/2002 6:35:0
Matrix: Soil
Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057931-003A	570-201-0.3	5.3	mg/L	9748	0.2	1	7/15/2002	7/25/2002
057931-005A	570-201-0.9	2.5	mg/L	9748	0.2	1	7/15/2002	7/25/2002
057931-006A	570-201-1.5	14	mg/L	9748	0.4	2	7/15/2002	7/25/2002
057931-007A	570-202-0	31	mg/L	9748	0.8	4	7/15/2002	7/25/2002
057931-008A	570-202-0.3	6.4	mg/L	9748	0.2	1	7/15/2002	7/25/2002
057931-009A	570-202-0.6	3.6	mg/L	9748	0.2	1	7/15/2002	7/25/2002
057931-010A	570-202-0.9	11	mg/L	9748	0.4	2	7/15/2002	7/25/2002
057931-011A	570-202-1.5	14	mg/L	9748	0.4	2	7/15/2002	7/25/2002
057931-012A	570-203-0	6.8	mg/L	9748	0.2	1	7/15/2002	7/25/2002
057931-013A	570-203-0.3	7.4	mg/L	9748	0.2	1	7/15/2002	7/25/2002
057931-014A	570-203-0.6	5.1	mg/L	9748	0.2	1	7/15/2002	7/25/2002

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Advanced Technology Laboratories

Date: 7/29/2002

LEAD BY ATOMIC ABSORPTION WET/ EPA 7420

CLIENT: Ninyo & Moore
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Project No:
PO No:

Lab Order: 057931
Date Received: 7/15/2002 6:35:0
Matrix: Soil
Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057931-015A	570-204-0	8.5	mg/L	9748	0.2	1	7/15/2002	7/25/2002
057931-016A	570-204-0.3	7.3	mg/L	9748	0.2	1	7/15/2002	7/25/2002
057931-017A	570-205-0	2.6	mg/L	9748	0.2	1	7/15/2002	7/25/2002
057931-021A	570-206-0	54	mg/L	9749	1.6	8	7/15/2002	7/25/2002
057931-022A	570-206-0.3	45	mg/L	9749	1.6	8	7/15/2002	7/25/2002
057931-023A	570-206-0.6	11	mg/L	9749	0.4	2	7/15/2002	7/25/2002
057931-026A	570-207-0	31	mg/L	9749	1	5	7/15/2002	7/25/2002
057931-027A	570-207-0.3	6.2	mg/L	9749	0.2	1	7/15/2002	7/25/2002
057931-028A	570-207-0.6	19	mg/L	9749	0.4	2	7/15/2002	7/25/2002
057931-030A	570-208-0.3	58	mg/L	9749	1.6	8	7/15/2002	7/25/2002
057931-031A	570-208-0.6	74	mg/L	9749	1.6	8	7/15/2002	7/25/2002

Qualifiers:
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Advanced Technology Laboratories

Date: 7/29/2002

LEAD BY ATOMIC ABSORPTION
WET/ EPA 7420

CLIENT: Ninyo & Moore
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Project No:
PO No:

Lab Order: 057931
Date Received: 7/15/2002 6:35:0
Matrix: Soil
Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057931-032A	570-209-0	40	mg/L	9749	1.6	8	7/15/2002	7/25/2002
057931-033A	570-209-0.3	31	mg/L	9749	0.8	4	7/15/2002	7/25/2002
057931-034A	570-209-0.6	7.5	mg/L	9749	0.2	1	7/15/2002	7/25/2002
057931-035A	570-209-0.9	7.8	mg/L	9749	0.2	1	7/15/2002	7/25/2002
057931-036A	570-210-0	40	mg/L	9749	1.6	8	7/15/2002	7/25/2002
057931-037A	570-210-0.3	3.2	mg/L	9749	0.2	1	7/15/2002	7/25/2002
057931-038A	570-210-0.6	29	mg/L	9749	0.8	4	7/15/2002	7/25/2002
057931-039A	570-211-0	29	mg/L	9749	0.8	4	7/15/2002	7/25/2002
057931-040A	570-211-0.3	2.2	mg/L	9749	0.2	1	7/15/2002	7/25/2002

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Advanced Technology Laboratories

Date: 8/5/2002

LEAD BY ATOMIC ABSORPTION
WET DI/ EPA 7420

CLIENT: Ninyo & Moore
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Project No:
PO No:

Lab Order: 057931
Date Received: 7/15/2002 6:35:0
Matrix: Soil
Analyst: NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057931-003A	570-201-0.3	ND	mg/L	9953	0.2	1	7/15/2002	8/2/2002
057931-006A	570-201-1.5	ND	mg/L	9953	0.2	1	7/15/2002	8/2/2002
057931-007A	570-202-0	ND	mg/L	9953	0.2	1	7/15/2002	8/2/2002
057931-008A	570-202-0.3	ND	mg/L	9953	0.2	1	7/15/2002	8/2/2002
057931-010A	570-202-0.9	ND	mg/L	9953	0.2	1	7/15/2002	8/2/2002
057931-011A	570-202-1.5	ND	mg/L	9953	0.2	1	7/15/2002	8/2/2002
057931-012A	570-203-0	ND	mg/L	9953	0.2	1	7/15/2002	8/2/2002
057931-013A	570-203-0.3	ND	mg/L	9953	0.2	1	7/15/2002	8/2/2002
057931-014A	570-203-0.6	ND	mg/L	9953	0.2	1	7/15/2002	8/2/2002
057931-015A	570-204-0	ND	mg/L	9953	0.2	1	7/15/2002	8/2/2002
057931-016A	570-204-0.3	ND	mg/L	9953	0.2	1	7/15/2002	8/2/2002

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Advanced Technology Laboratories

Date: 8/5/2002

LEAD BY ATOMIC ABSORPTION
WET DI/ EPA 7420

CLIENT: Ninyo & Moore
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Project No:
PO No:

Lab Order: 057931
Date Received: 7/15/2002 6:35:0
Matrix: Soil
Analyst: NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057931-021A	570-206-0	0.22	mg/L	9953	0.2	1	7/15/2002	8/2/2002
057931-022A	570-206-0.3	ND	mg/L	9953	0.2	1	7/15/2002	8/2/2002
057931-023A	570-206-0.6	ND	mg/L	9953	0.2	1	7/15/2002	8/2/2002
057931-026A	570-207-0	0.22	mg/L	9953	0.2	1	7/15/2002	8/2/2002
057931-027A	570-207-0.3	ND	mg/L	9953	0.2	1	7/15/2002	8/2/2002
057931-028A	570-207-0.6	0.27	mg/L	9953	0.2	1	7/15/2002	8/2/2002
057931-030A	570-208-0.3	ND	mg/L	9953	0.2	1	7/15/2002	8/2/2002
057931-031A	570-208-0.6	ND	mg/L	9953	0.2	1	7/15/2002	8/2/2002
057931-032A	570-209-0	ND	mg/L	9953	0.2	1	7/15/2002	8/2/2002
057931-033A	570-209-0.3	ND	mg/L	9954	0.2	1	7/15/2002	8/2/2002
057931-034A	570-209-0.6	ND	mg/L	9954	0.2	1	7/15/2002	8/2/2002

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WET DI/ EPA 7420

CLIENT: Ninyo & Moore
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Project No:
PO No:

Lab Order: 057931
Date Received: 7/15/2002 6:35:0
Matrix: Soil
Analyst: NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057931-035A	570-209-0.9	ND	mg/L	9954	0.2	1	7/15/2002	8/2/2002
057931-036A	570-210-0	ND	mg/L	9954	0.2	1	7/15/2002	8/2/2002
057931-038A	570-210-0.6	ND	mg/L	9954	0.2	1	7/15/2002	8/2/2002
057931-039A	570-211-0	ND	mg/L	9954	0.2	1	7/15/2002	8/2/2002

Qualifiers:
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S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *14-Aug-02*

CLIENT: Ninyo & Moore
Lab Order: 057931
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Lab ID: 057931-002A

Client Sample ID: 570-201-0
Collection Date: 7/15/2002 11:20:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS	**(EPA 3050A)**			**EPA 6010B**		
RunID: ICP2_020810B	QC Batch: 10209					Analyst: **RQ**
Antimony	ND	2.5		mg/Kg	10	8/10/2002
Arsenic	10	2.5		mg/Kg	10	8/10/2002
Barium	160	1.5		mg/Kg	10	8/10/2002
Beryllium	ND	1.5		mg/Kg	10	8/10/2002
Cadmium	ND	1.5		mg/Kg	10	8/10/2002
Chromium	15	1.5		mg/Kg	10	8/10/2002
Cobalt	5.0	1.5		mg/Kg	10	8/10/2002
Copper	70	1.5		mg/Kg	10	8/10/2002
Molybdenum	ND	2.5		mg/Kg	10	8/10/2002
Nickel	15	1.5		mg/Kg	10	8/10/2002
Selenium	ND	2.5		mg/Kg	10	8/10/2002
Silver	ND	1.5		mg/Kg	10	8/10/2002
Thallium	4.0	2.5		mg/Kg	10	8/10/2002
Vanadium	25	1.5		mg/Kg	10	8/10/2002
Zinc	360	5.0		mg/Kg	10	8/10/2002
MERCURY BY COLD VAPOR TECHNIQUE	**(EPA 7471)**			**EPA 7471A**		
RunID: AA1_020812E	QC Batch: 10170					Analyst: **NS**
Mercury	0.12	0.10		mg/Kg	1	8/12/2002

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Advanced Technology Laboratories

Date: *14-Aug-02*

CLIENT: Ninyo & Moore
Lab Order: 057931
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Lab ID: 057931-020A

Client Sample ID: 570-205-0.9
Collection Date: 7/15/2002 12:40:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS (EPA 3050A)				EPA 6010B		
RunID: ICP2_020810B	QC Batch: 10209					Analyst: **RQ**
Antimony	ND	2.5		mg/Kg	10	8/10/2002
Arsenic	15	2.5		mg/Kg	10	8/10/2002
Barium	180	1.5		mg/Kg	10	8/10/2002
Beryllium	ND	1.5		mg/Kg	10	8/10/2002
Cadmium	ND	1.5		mg/Kg	10	8/10/2002
Chromium	15	1.5		mg/Kg	10	8/10/2002
Cobalt	10	1.5		mg/Kg	10	8/10/2002
Copper	35	1.5		mg/Kg	10	8/10/2002
Molybdenum	ND	2.5		mg/Kg	10	8/10/2002
Nickel	15	1.5		mg/Kg	10	8/10/2002
Selenium	ND	2.5		mg/Kg	10	8/10/2002
Silver	ND	1.5		mg/Kg	10	8/10/2002
Thallium	ND	2.5		mg/Kg	10	8/10/2002
Vanadium	50	1.5		mg/Kg	10	8/10/2002
Zinc	85	5.0		mg/Kg	10	8/10/2002
MERCURY BY COLD VAPOR TECHNIQUE (EPA 7471)				EPA 7471A		
RunID: AA1_020809A	QC Batch: 10164					Analyst: **NS**
Mercury	0.21	0.10		mg/Kg	1	8/9/2002

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Advanced Technology Laboratories

Date: *14-Aug-02*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	570-208-0.3
Lab Order:	057931		
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Collection Date:**	7/15/2002 1:51:00 PM
Lab ID:	057931-030A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS						
	(EPA 3050A)			**EPA 6010B**		
RunID: ICP2_020810B	QC Batch: 10209					Analyst: **RQ**
Antimony	ND	2.5		mg/Kg	10	8/10/2002
Arsenic	15	2.5		mg/Kg	10	8/10/2002
Barium	200	1.5		mg/Kg	10	8/10/2002
Beryllium	ND	1.5		mg/Kg	10	8/10/2002
Cadmium	ND	1.5		mg/Kg	10	8/10/2002
Chromium	20	1.5		mg/Kg	10	8/10/2002
Cobalt	10	1.5		mg/Kg	10	8/10/2002
Copper	60	1.5		mg/Kg	10	8/10/2002
Molybdenum	3.0	2.5		mg/Kg	10	8/10/2002
Nickel	20	1.5		mg/Kg	10	8/10/2002
Selenium	ND	2.5		mg/Kg	10	8/10/2002
Silver	ND	1.5		mg/Kg	10	8/10/2002
Thallium	ND	2.5		mg/Kg	10	8/10/2002
Vanadium	45	1.5		mg/Kg	10	8/10/2002
Zinc	340	5.0		mg/Kg	10	8/10/2002
MERCURY BY COLD VAPOR TECHNIQUE						
	(EPA 7471)			**EPA 7471A**		
RunID: AA1_020813E	QC Batch: 10206					Analyst: **NS**
Mercury	0.41	0.10		mg/Kg	1	8/13/2002

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Advanced Technology Laboratories

Date: 8/19/2002

LEAD BY ATOMIC ABSORPTION
EPA 1311/ 7420

CLIENT:	Ninyo & Moore	**Lab Order:**	057931
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/15/2002 6:35:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057931-002A	570-201-0	3.5	mg/L	10119	0.2	1	7/15/2002	8/7/2002
057931-007A	570-202-0	0.74	mg/L	10355	0.2	1	7/15/2002	8/15/2002
057931-021A	570-206-0	0.54	mg/L	10355	0.2	1	7/15/2002	8/15/2002
057931-022A	570-206-0.3	0.64	mg/L	10355	0.2	1	7/15/2002	8/15/2002
057931-026A	570-207-0	0.86	mg/L	10355	0.2	1	7/15/2002	8/15/2002
057931-028A	570-207-0.6	0.78	mg/L	10356	0.2	1	7/15/2002	8/15/2002
057931-029A	570-208-0	1.3	mg/L	10119	0.2	1	7/15/2002	8/7/2002
057931-030A	570-208-0.3	1.9	mg/L	10398	0.2	1	7/15/2002	8/16/2002
057931-031A	570-208-0.6	0.72	mg/L	10356	0.2	1	7/15/2002	8/15/2002
057931-032A	570-209-0	0.55	mg/L	10356	0.2	1	7/15/2002	8/15/2002
057931-033A	570-209-0.3	ND	mg/L	10356	0.2	1	7/15/2002	8/15/2002

Qualifiers:

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Advanced Technology Laboratories

Date: 8/19/2002

LEAD BY ATOMIC ABSORPTION
EPA 1311/ 7420

CLIENT:	Ninyo & Moore	**Lab Order:**	057931
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/15/2002 6:35:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057931-036A	570-210-0	0.36	mg/L	10356	0.2	1	7/15/2002	8/15/2002
057931-038A	570-210-0.6	0.57	mg/L	10356	0.2	1	7/15/2002	8/15/2002
057931-039A	570-211-0	0.42	mg/L	10356	0.2	1	7/15/2002	8/15/2002

Qualifiers:

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Advanced Technology Laboratories

Date: *19-Aug-02*

CLIENT: Ninyo & Moore
Work Order: 057931
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10119

Sample ID: **MB-10119** SampType: **mblk** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/6/2002** Run ID: **AA2_020807I**
Client ID: **ZZZZZ** Batch ID: **10119** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/7/2002** SeqNo: **315013**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.08741	0.20									

Sample ID: **LCS-10119** SampType: **lcs** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/6/2002** Run ID: **AA2_020807I**
Client ID: **ZZZZZ** Batch ID: **10119** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/7/2002** SeqNo: **315028**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.182	0.20	1	0	118	80	120	0	0		

Sample ID: **058065-044AMS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/6/2002** Run ID: **AA2_020807I**
Client ID: **ZZZZZ** Batch ID: **10119** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/7/2002** SeqNo: **315026**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	13.57	0.40	2.5	9.528	162	80	120	0	0		S

Sample ID: **058065-044ADUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/6/2002** Run ID: **AA2_020807I**
Client ID: **ZZZZZ** Batch ID: **10119** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/7/2002** SeqNo: **315025**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	11.97	0.40	0	0	0	0	0	9.528	22.7	30	

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DO - Surrogate diluted out
H - Sample exceeded holding time

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CLIENT: Ninyo & Moore
Work Order: 057931
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10164

Sample ID: **MB-10164** SampType: **mblk** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809A**
Client ID: **ZZZZZ** Batch ID: **10164** TestNo: **EPA 7471A (EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316084**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: **LCS-10164** SampType: **lcs** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809A**
Client ID: **ZZZZZ** Batch ID: **10164** TestNo: **EPA 7471A (EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316083**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.043	0.10	2.08	0	98.2	80	120	0	0		

Sample ID: **057935-042AMS** SampType: **MS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809A**
Client ID: **ZZZZZ** Batch ID: **10164** TestNo: **EPA 7471A (EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316081**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.03	0.10	0.83	0.1521	106	62	146	0	0		

Sample ID: **057935-042AMSD** SampType: **MSD** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809A**
Client ID: **ZZZZZ** Batch ID: **10164** TestNo: **EPA 7471A (EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316082**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.9301	0.10	0.83	0.1521	93.7	62	146	1.03	10.2	33	

Sample ID: **057935-042ADUP** SampType: **DUP** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809A**
Client ID: **ZZZZZ** Batch ID: **10164** TestNo: **EPA 7471A (EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316080**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.1234	0.10	0	0	0	0	0	0.1521	20.8	30	

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CLIENT: Ninyo & Moore
Work Order: 057931
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10170

Sample ID: **MB-10170** SampType: **mblk** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020812E**
Client ID: **ZZZZZ** Batch ID: **10170** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/12/2002** SeqNo: **317175**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: **LCS-10170** SampType: **lcs** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020812E**
Client ID: **ZZZZZ** Batch ID: **10170** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/12/2002** SeqNo: **317174**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.901	0.10	2.08	0	91.4	80	120	0	0		

Sample ID: **058024-043AMS** SampType: **MS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020812E**
Client ID: **ZZZZZ** Batch ID: **10170** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/12/2002** SeqNo: **317172**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.949	0.10	0.83	0.114	101	62	146	0	0		

Sample ID: **058024-043AMSD** SampType: **MSD** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020812E**
Client ID: **ZZZZZ** Batch ID: **10170** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/12/2002** SeqNo: **317173**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.032	0.10	0.83	0.114	111	62	146	0.949	8.40	33	

Sample ID: **058024-043ADUP** SampType: **DUP** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020812E**
Client ID: **ZZZZZ** Batch ID: **10170** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/12/2002** SeqNo: **317171**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.0945	0.10	0	0	0	0	0	0.114	0	30	J

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DO - Surrogate diluted out
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Advanced Technology Laboratories
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CLIENT: Ninyo & Moore
Work Order: 057931
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10206

Sample ID: **MB-10206** SampType: **mblk** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020813E**
Client ID: **ZZZZZ** Batch ID: **10206** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/13/2002** SeqNo: **318502**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: **LCS-10206** SampType: **lcs** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020813E**
Client ID: **ZZZZZ** Batch ID: **10206** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/13/2002** SeqNo: **318501**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.067	0.10	2.08	0	99.4	80	120	0	0		

Sample ID: **058166-035AMS** SampType: **MS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020813E**
Client ID: **ZZZZZ** Batch ID: **10206** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/13/2002** SeqNo: **318499**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.9595	0.10	0.83	0.04226	111	62	146	0	0		

Sample ID: **058166-035AMSD** SampType: **MSD** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020813E**
Client ID: **ZZZZZ** Batch ID: **10206** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/13/2002** SeqNo: **318500**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.977	0.10	0.83	0.04226	113	62	146	0.9595	1.80	33	

Sample ID: **058166-035ADUP** SampType: **DUP** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020813E**
Client ID: **ZZZZZ** Batch ID: **10206** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/13/2002** SeqNo: **318498**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.04707	0.10	0	0	0	0	0	0.04226	0	30	J

Qualifiers:
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Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Ninyo & Moore
Work Order: 057931
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10209

Sample ID: **MB-10209** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/9/2002** Run ID: **ICP2_020810B**
Client ID: **ZZZZZ** Batch ID: **10209** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316560**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.0505	0.25									J
Arsenic	0.1785	0.25									J
Barium	ND	0.15									
Beryllium	0.011	0.15									J
Cadmium	0.0285	0.15									J
Chromium	ND	0.15									
Cobalt	0.038	0.15									J
Copper	ND	0.15									
Molybdenum	0.0045	0.25									J
Nickel	ND	0.15									
Selenium	ND	0.25									
Silver	0.036	0.15									J
Thallium	0.046	0.25									J
Vanadium	ND	0.15									
Zinc	0.037	0.50									J

Sample ID: **LCS-10209** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/9/2002** Run ID: **ICP2_020810B**
Client ID: **ZZZZZ** Batch ID: **10209** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316561**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	46	0.25	50	0	92	80	120	0	0		
Arsenic	47	0.25	50	0	94	80	120	0	0		
Barium	50.5	0.15	50	0	101	80	120	0	0		
Beryllium	46.5	0.15	50	0	93	80	120	0	0		
Cadmium	46	0.15	50	0	92	80	120	0	0		
Chromium	48	0.15	50	0	96	80	120	0	0		
Cobalt	47.5	0.15	50	0	95	80	120	0	0		
Copper	48.5	0.15	50	0	97	80	120	0	0		
Molybdenum	48	0.25	50	0	96	80	120	0	0		
Nickel	46	0.15	50	0	92	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; S - Spike/Surrogate outside limits due to matrix interference; B - Analyte detected in the associated Method Blank; DO - Surrogate diluted out; H - Sample exceeded holding time

Calculations are based on raw values

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CLIENT: Ninyo & Moore
Work Order: 057931
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10209

Sample ID: **LCS-10209** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/9/2002** Run ID: **ICP2_020810B**
Client ID: **ZZZZZ** Batch ID: **10209** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316561**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	43	0.25	50	0	86	80	120	0	0		
Silver	48.5	0.15	50	0	97	80	120	0	0		
Thallium	48	0.25	50	0	96	80	120	0	0		
Vanadium	48	0.15	50	0	96	80	120	0	0		
Zinc	47	0.50	50	0	94	80	120	0	0		

Sample ID: **057948-004AMS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/9/2002** Run ID: **ICP2_020810B**
Client ID: **ZZZZZ** Batch ID: **10209** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316573**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	65	2.5	125	0.895	51.3	32	115	0	0		
Arsenic	130	2.5	125	10	96	59	111	0	0		
Barium	280	1.5	125	135	116	34	151	0	0		
Beryllium	120	1.5	125	0	96	56	112	0	0		
Cadmium	115	1.5	125	0	92	52	120	0	0		
Chromium	140	1.5	125	15	100	56	118	0	0		
Cobalt	130	1.5	125	10	96	58	117	0	0		
Copper	155	1.5	125	30	100	58	134	0	0		
Molybdenum	115	2.5	125	0.905	91.3	56	115	0	0		
Nickel	135	1.5	125	15	96	52	120	0	0		
Selenium	120	2.5	125	0	96	46	108	0	0		
Silver	125	1.5	125	0.1	99.9	74	117	0	0		
Thallium	125	2.5	125	2.41	98.1	62	117	0	0		
Vanadium	180	1.5	125	55	100	55	122	0	0		
Zinc	260	5.0	125	145	92	43	134	0	0		

Sample ID: **057948-004AMSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/9/2002** Run ID: **ICP2_020810B**
Client ID: **ZZZZZ** Batch ID: **10209** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316574**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

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ANALYTICAL QC SUMMARY REPORT

BatchID: 10209

Sample ID: **057948-004AMSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/9/2002** Run ID: **ICP2_020810B**
Client ID: **ZZZZZ** Batch ID: **10209** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316574**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	75	2.5	125	0.895	59.3	32	115	65	14.3	20	
Arsenic	135	2.5	125	10	100	59	111	130	3.77	20	
Barium	265	1.5	125	135	104	34	151	280	5.50	20	
Beryllium	120	1.5	125	0	96	56	112	120	0	20	
Cadmium	115	1.5	125	0	92	52	120	115	0	20	
Chromium	140	1.5	125	15	100	56	118	140	0	20	
Cobalt	130	1.5	125	10	96	58	117	130	0	20	
Copper	160	1.5	125	30	104	58	134	155	3.17	20	
Molybdenum	120	2.5	125	0.905	95.3	56	115	115	4.26	20	
Nickel	140	1.5	125	15	100	52	120	135	3.64	20	
Selenium	125	2.5	125	0	100	46	108	120	4.08	20	
Silver	125	1.5	125	0.1	99.9	74	117	125	0	20	
Thallium	130	2.5	125	2.41	102	62	117	125	3.92	20	
Vanadium	185	1.5	125	55	104	55	122	180	2.74	20	
Zinc	280	5.0	125	145	108	43	134	260	7.41	20	

Sample ID: **057948-004ADUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/9/2002** Run ID: **ICP2_020810B**
Client ID: **ZZZZZ** Batch ID: **10209** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316572**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.13	2.5	0	0	0	0	0	0.895	0	30	J
Arsenic	10	2.5	0	0	0	0	0	10	0	30	
Barium	130	1.5	0	0	0	0	0	135	3.77	30	
Beryllium	ND	1.5	0	0	0	0	0	0	0	30	
Cadmium	ND	1.5	0	0	0	0	0	0	0	30	
Chromium	15	1.5	0	0	0	0	0	15	0	30	
Cobalt	10	1.5	0	0	0	0	0	10	0	30	
Copper	30	1.5	0	0	0	0	0	30	0	30	
Molybdenum	1.19	2.5	0	0	0	0	0	0.905	0	30	J
Nickel	15	1.5	0	0	0	0	0	15	0	30	

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; S - Spike/Surrogate outside limits due to matrix interference; B - Analyte detected in the associated Method Blank; **Calculations are based on raw values**; DO - Surrogate diluted out; H - Sample exceeded holding time

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ANALYTICAL QC SUMMARY REPORT

BatchID: 10209

Sample ID: **057948-004ADUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/9/2002** Run ID: **ICP2_020810B**
Client ID: **ZZZZZ** Batch ID: **10209** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316572**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	ND	2.5	0	0	0	0	0	0	0	30	
Silver	0.4	1.5	0	0	0	0	0	0.1	0	30	J
Thallium	1.715	2.5	0	0	0	0	0	2.41	0	30	J
Vanadium	55	1.5	0	0	0	0	0	55	0	30	
Zinc	155	5.0	0	0	0	0	0	145	6.67	30	

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ANALYTICAL QC SUMMARY REPORT

BatchID: 10355

Sample ID	SampType	TestCode	Units	Prep Date	Run ID
MB-10355	MBLK	7420_TC	mg/L	8/13/2002	AA2_020814T
Client ID: ZZZZZ	Batch ID: 10355	TestNo: EPA 1311/ 74 (EPA 3010A)		Analysis Date: 8/15/2002	SeqNo: 318984

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID	SampType	TestCode	Units	Prep Date	Run ID
MB-10269-TCLP	MBLK	7420_TC	mg/L	8/13/2002	AA2_020814T
Client ID: ZZZZZ	Batch ID: 10355	TestNo: EPA 1311/ 74 (EPA 3010A)		Analysis Date: 8/15/2002	SeqNo: 318985

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID	SampType	TestCode	Units	Prep Date	Run ID
LCS-10355	LCS	7420_TC	mg/L	8/13/2002	AA2_020814T
Client ID: ZZZZZ	Batch ID: 10355	TestNo: EPA 1311/ 74 (EPA 3010A)		Analysis Date: 8/15/2002	SeqNo: 318999

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.09	0.20	1	0	109	80	120	0	0		

Sample ID	SampType	TestCode	Units	Prep Date	Run ID
057977-028AMS	MS	7420_TC	mg/L	8/13/2002	AA2_020814T
Client ID: ZZZZZ	Batch ID: 10355	TestNo: EPA 1311/ 74 (EPA 3010A)		Analysis Date: 8/15/2002	SeqNo: 318997

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.105	0.20	2.841	1.376	96.1	80	120	0	0		

Sample ID	SampType	TestCode	Units	Prep Date	Run ID
057977-028ADUP	DUP	7420_TC	mg/L	8/13/2002	AA2_020814T
Client ID: ZZZZZ	Batch ID: 10355	TestNo: EPA 1311/ 74 (EPA 3010A)		Analysis Date: 8/15/2002	SeqNo: 318996

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.775	0.20	0	0	0	0	0	1.376	25.3	30	

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 10356

Sample ID: **MB-10356** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814U**
Client ID: **ZZZZZ** Batch ID: **10356** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/15/2002** SeqNo: **319000**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-10270-TCLP** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814U**
Client ID: **ZZZZZ** Batch ID: **10356** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/15/2002** SeqNo: **319001**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-10356** SampType: **LCS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814U**
Client ID: **ZZZZZ** Batch ID: **10356** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/15/2002** SeqNo: **319015**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.109	0.20	1	0	111	80	120	0	0		

Sample ID: **058020-028AMS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814U**
Client ID: **ZZZZZ** Batch ID: **10356** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/15/2002** SeqNo: **319013**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.698	0.20	2.5	2.252	97.8	80	120	0	0		

Sample ID: **058020-028ADUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814U**
Client ID: **ZZZZZ** Batch ID: **10356** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/15/2002** SeqNo: **319012**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.486	0.20	0	0	0	0	0	2.252	9.88	30	

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 10398

Sample ID: MB-10398 | SampType: MBLK | TestCode: 7420_TC | Units: mg/L | Prep Date: 8/15/2002 | Run ID: AA2_020816A
Client ID: ZZZZZ | Batch ID: 10398 | TestNo: EPA 1311/ 74 (EPA 3010A) | Analysis Date: 8/16/2002 | SeqNo: 319792

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: MB-10377-TCLP | SampType: MBLK | TestCode: 7420_TC | Units: mg/L | Prep Date: 8/15/2002 | Run ID: AA2_020816A
Client ID: ZZZZZ | Batch ID: 10398 | TestNo: EPA 1311/ 74 (EPA 3010A) | Analysis Date: 8/16/2002 | SeqNo: 319793

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20	0	0	0	0	0	0	0		

Sample ID: LCS-10398 | SampType: LCS | TestCode: 7420_TC | Units: mg/L | Prep Date: 8/15/2002 | Run ID: AA2_020816A
Client ID: ZZZZZ | Batch ID: 10398 | TestNo: EPA 1311/ 74 (EPA 3010A) | Analysis Date: 8/16/2002 | SeqNo: 319807

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.058	0.20	1	0	106	80	120	0	0		

Sample ID: 057972-025AMS | SampType: MS | TestCode: 7420_TC | Units: mg/L | Prep Date: 8/15/2002 | Run ID: AA2_020816A
Client ID: ZZZZZ | Batch ID: 10398 | TestNo: EPA 1311/ 74 (EPA 3010A) | Analysis Date: 8/16/2002 | SeqNo: 319805

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.851	0.20	2.5	0.3406	100	80	120	0	0		

Sample ID: 057972-025ADUP | SampType: DUP | TestCode: 7420_TC | Units: mg/L | Prep Date: 8/15/2002 | Run ID: AA2_020816A
Client ID: ZZZZZ | Batch ID: 10398 | TestNo: EPA 1311/ 74 (EPA 3010A) | Analysis Date: 8/16/2002 | SeqNo: 319804

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.3508	0.20	0	0	0	0	0	0.3406	2.97	30	

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Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 9601

Sample ID: **MB-9601A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP2_020717D**
Client ID: **ZZZZZ** Batch ID: **9601** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/17/2002** SeqNo: **300702**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **MB-9601B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP2_020717D**
Client ID: **ZZZZZ** Batch ID: **9601** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/17/2002** SeqNo: **300716**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.5	5.0									

Sample ID: **LCS-9601** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP2_020717D**
Client ID: **ZZZZZ** Batch ID: **9601** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/17/2002** SeqNo: **300703**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	224	5.0	250	0	89.6	80	120	0	0		

Sample ID: **057931-011AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP2_020717D**
Client ID: **570-202-1.5** Batch ID: **9601** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/17/2002** SeqNo: **300715**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	455	5.0	250	253.8	80.5	47	128	0	0		

Sample ID: **057931-021AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP2_020717D**
Client ID: **570-206-0** Batch ID: **9601** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/17/2002** SeqNo: **300728**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	860.5	5.0	250	647.5	85.2	47	128	0	0		

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Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 9601

Sample ID: **057931-011ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP2_020717D**
Client ID: **570-202-1.5** Batch ID: **9601** TestNo: **EPA 6010B (EPA 3050M)** Analysis Date: **7/17/2002** SeqNo: **300714**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	209.9	5.0	0	0	0	0	0	0	0		

Sample ID: **057931-021ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP2_020717D**
Client ID: **570-206-0** Batch ID: **9601** TestNo: **EPA 6010B (EPA 3050M)** Analysis Date: **7/17/2002** SeqNo: **300727**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	677.5	5.0	0	0	0	0	0	647.5	4.53	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

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ANALYTICAL QC SUMMARY REPORT

BatchID: 9602

Sample ID: MB-9602A	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 7/16/2002	Run ID: ICP2_020717E
Client ID: ZZZZZ	Batch ID: 9602	TestNo: EPA 6010B	(EPA 3050M)	Analysis Date: 7/17/2002	SeqNo: 300738

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: MB-9602B	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 7/16/2002	Run ID: ICP2_020717E
Client ID: ZZZZZ	Batch ID: 9602	TestNo: EPA 6010B	(EPA 3050M)	Analysis Date: 7/17/2002	SeqNo: 300752

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: LCS-9602	SampType: LCS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 7/16/2002	Run ID: ICP2_020717E
Client ID: ZZZZZ	Batch ID: 9602	TestNo: EPA 6010B	(EPA 3050M)	Analysis Date: 7/17/2002	SeqNo: 300739

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	225.5	5.0	250	0	90.2	80	120	0	0		

Sample ID: 057931-031AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 7/16/2002	Run ID: ICP2_020717E
Client ID: 570-208-0.6	Batch ID: 9602	TestNo: EPA 6010B	(EPA 3050M)	Analysis Date: 7/17/2002	SeqNo: 300751

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	883	5.0	250	766.5	46.6	47	128	0	0		S

Sample ID: 057931-041AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 7/16/2002	Run ID: ICP2_020717E
Client ID: 570-211-0.6	Batch ID: 9602	TestNo: EPA 6010B	(EPA 3050M)	Analysis Date: 7/17/2002	SeqNo: 300764

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	194.5	5.0	250	35	63.8	47	128	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
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Calculations are based on raw values
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9602

Sample ID: **057931-031ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP2_020717E**
Client ID: **570-208-0.6** Batch ID: **9602** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/17/2002** SeqNo: **300750**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	829	5.0	0	0	0	0	0	766.5	7.83	30	

Sample ID: **057931-041ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP2_020717E**
Client ID: **570-211-0.6** Batch ID: **9602** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/17/2002** SeqNo: **300763**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	31.5	5.0	0	0	0	0	0	35	10.5	30	

Qualifiers: ND - Not Detected at the Reporting Limit
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9623

Sample ID: **MB-9623** SampType: **MBLK** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718A**
Client ID: **ZZZZZ** Batch ID: **9623** TestNo: **EPA 6010B (EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **300879**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.0050									

Sample ID: **LCS-9623** SampType: **LCS** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718A**
Client ID: **ZZZZZ** Batch ID: **9623** TestNo: **EPA 6010B (EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **300880**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.94	0.0050	1	0	94	80	120	0	0		

Sample ID: **057936-066AMS** SampType: **MS** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718A**
Client ID: **ZZZZZ** Batch ID: **9623** TestNo: **EPA 6010B (EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **300891**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.43	0.0050	2.5	0	97.2	66	118	0	0		

Sample ID: **057936-066ADUP** SampType: **DUP** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718A**
Client ID: **ZZZZZ** Batch ID: **9623** TestNo: **EPA 6010B (EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **300890**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.0050	0	0	0	0	0	0	0	30	

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9748

Sample ID: **MB-9748** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/25/2002** Run ID: **AA2_020725N**
Client ID: **ZZZZZ** Batch ID: **9748** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/25/2002** SeqNo: **306672**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9748A** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/22/2002** Run ID: **AA2_020725N**
Client ID: **ZZZZZ** Batch ID: **9748** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/25/2002** SeqNo: **306673**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9748B** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/22/2002** Run ID: **AA2_020725N**
Client ID: **ZZZZZ** Batch ID: **9748** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/25/2002** SeqNo: **306686**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-9748** SampType: **LCS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/25/2002** Run ID: **AA2_020725N**
Client ID: **ZZZZZ** Batch ID: **9748** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/25/2002** SeqNo: **306700**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.198	0.20	7.5	0	96	80	120	0	0		

Sample ID: **057931-007AMS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/25/2002** Run ID: **AA2_020725N**
Client ID: **570-202-0** Batch ID: **9748** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/25/2002** SeqNo: **306685**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	74.52	2.0	50	30.65	87.7	80	120	0	0		

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9748

Sample ID: **057931-017AMS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/25/2002** Run ID: **AA2_020725N**
Client ID: **570-205-0** Batch ID: **9748** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/25/2002** SeqNo: **306698**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.39	0.20	5	2.61	95.6	80	120	0	0		

Sample ID: **057931-007ADUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/22/2002** Run ID: **AA2_020725N**
Client ID: **570-202-0** Batch ID: **9748** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/25/2002** SeqNo: **306684**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	25.58	0.80	0	0	0	0	0	30.65	18.0	30	

Sample ID: **057931-017ADUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/22/2002** Run ID: **AA2_020725N**
Client ID: **570-205-0** Batch ID: **9748** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/25/2002** SeqNo: **306697**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.817	0.20	0	0	0	0	0	2.61	7.61	30	

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9749

Sample ID: **MB-9749** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/25/2002** Run ID: **AA2_020725G**
Client ID: **ZZZZZ** Batch ID: **9749** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/25/2002** SeqNo: **306078**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9749A** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/22/2002** Run ID: **AA2_020725G**
Client ID: **ZZZZZ** Batch ID: **9749** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/25/2002** SeqNo: **306079**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9749B** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/22/2002** Run ID: **AA2_020725G**
Client ID: **ZZZZZ** Batch ID: **9749** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/25/2002** SeqNo: **306091**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-9749** SampType: **LCS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/25/2002** Run ID: **AA2_020725G**
Client ID: **ZZZZZ** Batch ID: **9749** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/25/2002** SeqNo: **306107**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.244	0.20	7.5	0	96.6	80	120	0	0		

Sample ID: **057931-033AMS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/25/2002** Run ID: **AA2_020725G**
Client ID: **570-209-0.3** Batch ID: **9749** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/25/2002** SeqNo: **306090**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	67.83	1.6	40	31.25	91.4	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9749

Sample ID: **057931-040AMS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/25/2002** Run ID: **AA2_020725G**
Client ID: **570-211-0.3** Batch ID: **9749** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/25/2002** SeqNo: **306103**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	6.809	0.20	5	2.201	92.2	80	120	0	0		

Sample ID: **057931-033ADUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/22/2002** Run ID: **AA2_020725G**
Client ID: **570-209-0.3** Batch ID: **9749** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/25/2002** SeqNo: **306089**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	27.48	0.80	0	0	0	0	0	31.25	12.8	30	

Sample ID: **057931-040ADUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/22/2002** Run ID: **AA2_020725G**
Client ID: **570-211-0.3** Batch ID: **9749** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/25/2002** SeqNo: **306101**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.707	0.20	0	0	0	0	0	2.201	25.3	30	

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9953

Sample ID: **MB-9953** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802H**
Client ID: **ZZZZZ** Batch ID: **9953** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312366**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9953A** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020802H**
Client ID: **ZZZZZ** Batch ID: **9953** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312367**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9953B** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020802H**
Client ID: **ZZZZZ** Batch ID: **9953** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312380**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.09291	0.20									

Sample ID: **LCS-9953** SampType: **LCS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802H**
Client ID: **ZZZZZ** Batch ID: **9953** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312394**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.284	0.20	7.5	0	97.1	80	120	0	0		

Sample ID: **057931-015AMS** SampType: **MS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802H**
Client ID: **570-204-0** Batch ID: **9953** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312379**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.16	0.20	5	0.07649	102	80	120	0	0		

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9953

Sample ID: **057931-032AMS** SampType: **MS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802H**
Client ID: **570-209-0** Batch ID: **9953** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312392**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.224	0.20	5	0.1898	101	80	120	0	0		

Sample ID: **057931-015ADUP** SampType: **DUP** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020802H**
Client ID: **570-204-0** Batch ID: **9953** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312378**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.07494	0.20	0	0	0	0	0	0.07649	0	30	J

Sample ID: **057931-032ADUP** SampType: **DUP** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020802H**
Client ID: **570-209-0** Batch ID: **9953** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312391**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.3056	0.20	0	0	0	0	0	0.1898	46.8	30	R

Qualifiers:
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CLIENT: Ninyo & Moore
Work Order: 057931
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 9954

Sample ID: **MB-9954** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802I**
Client ID: **ZZZZZ** Batch ID: **9954** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312395**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.08713	0.20									

Sample ID: **MB-9954A** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020802I**
Client ID: **ZZZZZ** Batch ID: **9954** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312396**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.07562	0.20									

Sample ID: **MB-9954B** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020802I**
Client ID: **ZZZZZ** Batch ID: **9954** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312409**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-9954** SampType: **LCS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802I**
Client ID: **ZZZZZ** Batch ID: **9954** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312423**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.228	0.20	7.5	0	96.4	80	120	0	0		

Sample ID: **057932-011AMS** SampType: **MS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802I**
Client ID: **ZZZZZ** Batch ID: **9954** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312408**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.117	0.20	5	0.1064	100	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; S - Spike/Surrogate outside limits due to matrix interference; B - Analyte detected in the associated Method Blank; **Calculations are based on raw values**; DO - Surrogate diluted out; H - Sample exceeded holding time

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Ninyo & Moore
Work Order: 057931
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 9954

Sample ID: **057948-036AMS** SampType: **MS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802I**
Client ID: **ZZZZZ** Batch ID: **9954** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312421**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.204	0.20	5	0.07566	103	80	120	0	0		

Sample ID: **057932-011ADUP** SampType: **DUP** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020802I**
Client ID: **ZZZZZ** Batch ID: **9954** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312407**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20	0	0	0	0	0	0.1064	0	30	

Sample ID: **057948-036ADUP** SampType: **DUP** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020802I**
Client ID: **ZZZZZ** Batch ID: **9954** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312420**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.118	0.20	0	0	0	0	0	0.07566	0	30	J

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Ninyo & Moore
Work Order: 057931
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: R19530

Sample ID: **057931-032ADUP** SampType: **DUP** TestCode: **9045_S** Units: **pH Units** Prep Date: **7/18/2002** Run ID: **WETCHEM_020718C**
Client ID: **570-209-0** Batch ID: **R19530** TestNo: **EPA 9045C** Analysis Date: **7/18/2002** SeqNo: **301196**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	5.87	0.10	0	0	0	0	0	5.82	0.855	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

Rachelle

From: Steve Reese [sreese@ninyoandmoore.com]
Sent: Wednesday, July 31, 2002 9:27 AM
To: 'rachelle@atlglobal.com'
Cc: David Shaler (E-mail); Ruth Cheung (E-mail)
Subject: TCLP Analysis

TCLP.xls

Rachelle,
Attached please find a list of samples to be run for the TCLP analysis. Currently, we selected all of the samples that are greater than 1,000 mg/kg
of TTLC results. However, they will be ran by instruction only. There may
be more samples chosen for TCLP analysis in the future, but please run these 82 samples for now. Please call with any questions.
Thank you, Steve

Stephen S. Reese
Senior Staff Environmental Scientist
Ninyo & Moore Geotechnical & Environmental Sciences Consultants
475 Goddard, Suite 200
Irvine, California 92618
Tel: (949) 753-7070
Fax: (949) 753-7071
Email: sreese@ninyoandmoore.com
www.ninyoandmoore.com

RUN FOR TCLP ANALYSIS			
33	20	29	82
569-101-0	570-101-0	571-104-0	
569-102-0	570-101-0.6	571-120-0	
569-102-0.3	570-102-0.6	571-310-0.9	
569-102-0.9	570-103-1.5	571-317-0	
569-111-0	570-114-0.6	571-320-0	
569-112-0	570-115-0	571-325-0.6	
569-112-0.6	570-119-0.3	571-507-0	
569-201-0	570-201-0	571-511-0	
569-212-0	570-214-0	571-514-0	
569-301-0	570-311-0.6	571-524-0	
569-303-0.9	570-312-0.6	571-710-0	
569-314-0	570-504-0	571-710-0.3	
569-401-0	570-508-0	571-711-0	
569-404-0.6	570-517-0	571-711-0.3	
569-405-0.6	570-517-0.3	571-712-0	
569-408-0.9	570-610-0.6	571-712-0.3	
569-502-0.6	570-615-0	571-201-0.6	
569-516-0	570-706-0	571-405-0	
569-603-0.3	570-709-0	571-406-0	
569-607-0	570-808-0.6	571-407-0	
569-607-0.3		571-414-0	
569-609-0		571-609-0	
569-609-0.3		571-611-0	
569-703-0		571-616-0	
569-703-0.9		571-617-0	
569-705-0		571-619-1.5	
569-705-0.3		571-814-0.3	
569-706-0		571-818-0.6	
569-708-0		571-819-0	
569-710-0			
569-711-0			
569-711-0.3			
569-801-0.3			

Rachelle

From: Ruth Cheung [rcheung@ninyoandmoore.com]
Sent: Tuesday, August 06, 2002 3:46 PM
To: 'Rachelle'; 'David Shaler (E-mail)'
Subject: Title 22 Metals

Title 22 Metals.xls

Rachelle,
Please run the following samples for Title 22 Metals. Please do not list
Pb in your emailed results. There should be a total of 120 samples to be
run.
Thanks.

Ruth L. Cheung
Staff Environmental Scientist
Ninyo & Moore
(949) 753-7070 x2273

569-102-0.9
569-112-0
569-201-0
569-206-0.6
569-106-1.5
569-212-0
569-401-0.6
569-301-0
569-303-0.9
569-404-0.6
569-408-0.9
569-314-0
569-313-0.3
569-502-0.6
569-602-1.5
569-607-0.3
569-607-0
569-508-0.9
569-511-0.6
569-612-1.5
569-516-0
569-801-0.3
569-519-0.6
569-803-0.9
569-705-0
569-806-1.5
569-708-0.3
569-711-0
569-811-0

570-101-0
570-101-0.6
570-201-0
570-205-0.9
570-106-0.3
570-208-1.5
570-111-0.6
570-214-0
570-115-0.3
570-119-0.9
570-224-0.6
570-401-0
570-401-0.3
570-304-1.5
570-307-0.9
570-311-0.6
570-312-0.6
570-316-0.3
570-601-0
570-505-1.5
570-508-0
570-610-0.6
570-511-0.9
570-615-0
570-514-0.3
570-517-0
570-618-0.6
570-621-1.5
570-703-0.9
570-804-0
570-706-0
570-709-0
570-808-0.6
570-711-1.5
570-812-0.3

571-101-0.9
571-104-0
571-201-0.6
571-108-1.5
571-111-0.3
571-207-0
571-210-0.6
571-115-0.9
571-214-0.3
571-120-0
571-217-1.5
571-220-0.6
571-301-0.3
571-405-0
571-306-0.9
571-407-0
571-310-0.9
571-315-0.3
571-412-1.5
571-317-0
571-320-0.6
571-416-0.9
571-325-0.3
571-421-1.5
571-425-0
571-501-0.6
571-503-0.9
571-603-0.3
571-507-0
571-609-0
571-510-1.5
571-611-0
571-514-0
571-614-0.3
571-517-0.9
571-617-0.6
571-520-1.5
571-621-0.3
571-524-0
571-624-0.9
571-529-0.3
571-628-0.6
571-703-1.5
571-707-0
571-804-0.9
571-809-0.3
571-711-0
571-712-0
571-814-0.3
571-818-0.6
571-819-0
571-827-1.5

571-832-0.9
571-836-0.3
571-837-0.6
571-842-0

Rachelle

From: Ruth Cheung [rcheung@ninyoandmoore.com]
Sent: Wednesday, August 07, 2002 10:28 AM
To: 'Rachelle'
Subject: RE: Title 22 Metals

Sorry for the mistake. Please change to the following:
569-602-1.5 to 0.6
569-803-0.9 to 0.6
571-217-1.5 to 0.6
571-320-0.6 to 0
571-421-1.5 to 0
571-503-0.9 to 0.6
571-510-1.5 to 0.6
571-520-1.5 to 0
571-703-1.5 to 0.6
571-804-0.9 to 0.6
571-827-1.5 to 0.3
571-837-0.6 to 0.3
570-119-0.9 to 0.6
570-208-1.5 to 0.3
570-621-1.5 to 0.3
570-703-0.9 to 0.3

thanks.

Ruth L. Cheung
Staff Environmental Scientist
Ninyo & Moore
(949) 753-7070 x2273

-----Original Message-----
From: Rachelle [SMTP:Rachelle@ATLGlobal.com]
Sent: Wednesday, August 07, 2002 9:49 AM
To: 'Ruth Cheung'
Subject: RE: Title 22 Metals

Hi Ruth,
Please check if the following samples exist, I don't see it on our database:
569-602-1.5
569-803-0.9
571-217-1.5
571-320-0.6
571-421-1.5
571-503-0.9
571-510-1.5
571-520-1.5
571-703-1.5
571-804-0.9
571-827-1.5
571-837-0.6
570-119-0.9
570-208-1.5
570-621-1.5
570-703-0.9
If it does exist, can you let me know when it was collected so I can track
them.
Thanks,
Rachelle
-----Original Message-----
From: Ruth Cheung [mailto:rcheung@ninyoandmoore.com]

Sent: Tuesday, August 06, 2002 3:46 PM
To: 'Rachelle'; 'David Shaler (E-mail)'
Subject: Title 22 Metals

Rachelle,
Please run the following samples for Title 22 Metals. Please do not list
Pb in your emailed results. There should be a total of 120 samples to be
run.
Thanks.

Ruth L. Cheung
Staff Environmental Scientist
Ninyo & Moore
(949) 753-7070 x2273

Rachelle

From: Ruth Cheung [rcheung@ninyoandmoore.com]
Sent: Thursday, August 08, 2002 9:14 AM
To: 'Rachelle'
Subject: TCLP Analysis

TCLP-3.xls

In addition to the 90 TCLP already run please run the following samples for
TCLP. There should be a list of 350 samples.
Thanks for a the hard work and timely results.

Ruth L. Cheung
Staff Environmental Scientist
Ninyo & Moore
(949) 753-7070 x2273

-----Original Message-----
From: Rachelle [SMTP:Rachelle@ATLGlobal.com]
Sent: Wednesday, August 07, 2002 5:02 PM
To: 'David Shaler (E-mail)'
Cc: 'Ruth Cheung (E-mail)'
Subject: TCLP Results

<<57931TCLP.xls>> <<58001TCLP.xls>> <<58021TCLP.xls>>
<<58022TCLP.xls>>
<<58023TCLP.xls>> <<58024TCLP.xls>> <<58049TCLP.xls>>
<<58050TCLP.xls>>
<<58052TCLP.xls>> <<58053TCLP.xls>> <<58065TCLP.xls>>
<<58066TCLP.xls>>
<<58067TCLP.xls>> <<58068TCLP.xls>> <<58069TCLP.xls>>

Rachelle Arada
Project Coordinator
www.atlglobal.com
voice: 562.989.4045 ext 237
fax : 562.989.4040

<< File: 57931TCLP.xls >> << File: 58001TCLP.xls >> << File: 58021TCLP.xls >> << File: 58022TCLP.xls >> << File: 58023TCLP.xls >> << File: 58024TCLP.xls >> << File: 58049TCLP.xls >> << File: 58050TCLP.xls >> << File: 58052TCLP.xls >> << File: 58053TCLP.xls >> << File: 58065TCLP.xls >> << File: 58066TCLP.xls >> << File: 58067TCLP.xls >> << File: 58068TCLP.xls >> << File: 58069TCLP.xls >>

569-404-0	2. STLC	170
569-402-0	2. STLC	130
569-406-0	2. STLC	120
569-515-0	2. STLC	110
569-611-0	2. STLC	100
569-409-0	2. STLC	94
569-603-0	2. STLC	93
569-104-0.6	2. STLC	91
569-807-0	2. STLC	86
569-608-0	2. STLC	86
569-501-0	2. STLC	84
569-710-0.3	2. STLC	83
569-808-0	2. STLC	83
569-609-0.6	2. STLC	80
569-803-0	2. STLC	79
569-105-0	2. STLC	78
569-512-0	2. STLC	77
569-513-0	2. STLC	77
569-302-0	2. STLC	74
569-805-0	2. STLC	73
569-517-0	2. STLC	71
569-704-0.3	2. STLC	71
569-703-0.6	2. STLC	70
569-514-0.3	2. STLC	70
569-803-0.3	2. STLC	69
569-409-0.6	2. STLC	69
569-411-0	2. STLC	68
569-102-0.6	2. STLC	68
569-809-0	2. STLC	65
569-605-0	2. STLC	65
569-711-0.6	2. STLC	62
569-806-0	2. STLC	60
569-802-0.3	2. STLC	60
569-410-0	2. STLC	59
569-501-0.6	2. STLC	59
569-808-0.3	2. STLC	58
569-104-0	2. STLC	56
569-804-0	2. STLC	54
569-610-0	2. STLC	54
569-608-0.3	2. STLC	53
569-213-0	2. STLC	49
569-701-0	2. STLC	47
569-311-0	2. STLC	47
569-609-0.9	2. STLC	46
569-513-0.3	2. STLC	45
569-801-0.6	2. STLC	44
569-514-0	2. STLC	42
569-805-0.6	2. STLC	42
569-408-1.5	2. STLC	42
569-807-0.3	2. STLC	40
569-204-0	2. STLC	40
569-517-0.3	2. STLC	36
569-518-0	2. STLC	36
569-806-0.3	2. STLC	36
569-705-1.5	2. STLC	35
569-303-0.6	2. STLC	34
569-516-0.3	2. STLC	33
569-705-0.6	2. STLC	33
569-802-0	2. STLC	33
569-515-0.6	2. STLC	32
569-704-0	2. STLC	32
569-401-0.3	2. STLC	32
569-207-0	2. STLC	32
569-608-0.6	2. STLC	31
569-104-0.3	2. STLC	31
569-201-0.6	2. STLC	30
569-515-0.3	2. STLC	28
569-212-0.6	2. STLC	28
569-103-0	2. STLC	28
569-313-0	2. STLC	27
569-103-0.3	2. STLC	26
569-705-0.9	2. STLC	25
569-707-0.3	2. STLC	25
569-515-1.5	2. STLC	24
569-508-0	2. STLC	24
569-801-0	2. STLC	24
569-402-0.6	2. STLC	24
569-516-0.6	2. STLC	22
569-509-0.3	2. STLC	22
569-106-0	2. STLC	22
569-106-0.3	2. STLC	22
569-202-0	2. STLC	21
569-805-1.5	2. STLC	21
569-205-0	2. STLC	20
569-707-0	2. STLC	19

570-515-0.3	2. STLC	120
570-811-0	2. STLC	110
570-114-0.0	2. STLC	110
570-504-0.6	2. STLC	100
570-811-1.5	2. STLC	90
570-615-0.6	2. STLC	84
570-305-0	2. STLC	79
570-314-0.6	2. STLC	76
570-505-0.6	2. STLC	75
570-208-0.6	2. STLC	74
570-116-0.0	2. STLC	73
570-102-0	2. STLC	65
570-804-0.6	2. STLC	64
570-704-0	2. STLC	63
570-508-0.6	2. STLC	60
570-706-0.3	2. STLC	60
570-303-0	2. STLC	58
570-311-1.5	2. STLC	58
570-117-0.0	2. STLC	58
570-208-0.3	2. STLC	58
570-709-0.6	2. STLC	57
570-703-0	2. STLC	55
570-206-0	2. STLC	54
570-301-0	2. STLC	53
570-603-0.3	2. STLC	46
570-711-0.6	2. STLC	46
570-206-0.3	2. STLC	45
570-103-0	2. STLC	44
570-602-0	2. STLC	41
570-209-0	2. STLC	40
570-210-0	2. STLC	40
570-117-0.3	2. STLC	39
570-103-0.6	2. STLC	37
570-110-0.6	2. STLC	37
570-805-0.9	2. STLC	36
570-112-1.5	2. STLC	35
570-614-0	2. STLC	34
570-713-0.3	2. STLC	33
570-513-0	2. STLC	32
570-312-0.3	2. STLC	31
570-503-0.6	2. STLC	31
570-510-0.6	2. STLC	31
570-202-0	2. STLC	31
570-207-0	2. STLC	31
570-209-0.3	2. STLC	31
570-703-0.3	2. STLC	30
570-401-0	2. STLC	30
570-610-0.9	2. STLC	29
570-809-0.6	2. STLC	29
570-509-0.9	2. STLC	29
570-210-0.6	2. STLC	29
570-211-0	2. STLC	29
570-603-0	2. STLC	28
570-119-0	2. STLC	28
570-713-0.6	2. STLC	28
570-108-0	2. STLC	27
570-708-0.6	2. STLC	27
570-224-0	2. STLC	26
570-601-0	2. STLC	26
570-710-0.6	2. STLC	26
570-614-0.6	2. STLC	26
570-118-0.3	2. STLC	26
570-304-0	2. STLC	25
570-707-0.6	2. STLC	25
570-510-0	2. STLC	25
570-110-0	2. STLC	24
570-223-0	2. STLC	24
570-117-0.6	2. STLC	24
570-616-0	2. STLC	23
570-704-0.3	2. STLC	22
570-513-0.6	2. STLC	22
570-221-0.0	2. STLC	22
570-617-0	2. STLC	21
570-214-0.3	2. STLC	21
570-122-0.9	2. STLC	20
570-313-0.6	2. STLC	19
570-207-0.6	2. STLC	19
570-120-0.9	2. STLC	18
570-506-0	2. STLC	18
570-102-0.9	2. STLC	17
570-216-0	2. STLC	17
570-225-0	2. STLC	17
570-304-0.3	2. STLC	17
570-409-0	2. STLC	17
570-713-0	2. STLC	17

571-521-0	2. STLC	230
571-324-0.9	2. STLC	110
571-818-0	2. STLC	110
571-819-0.6	2. STLC	110
571-708-0	2. STLC	110
571-103-0.6	2. STLC	110
571-617-0.3	2. STLC	100
571-611-0.6	2. STLC	92
571-712-0.9	2. STLC	81
571-105-0.6	2. STLC	81
571-313-0	2. STLC	79
571-508-0	2. STLC	73
571-518-0.3	2. STLC	73
571-217-0	2. STLC	68
571-516-0	2. STLC	66
571-701-0.3	2. STLC	66
571-710-0.6	2. STLC	65
571-512-0	2. STLC	64
571-308-0.9	2. STLC	61
571-701-0	2. STLC	61
571-514-0.3	2. STLC	59
571-415-0	2. STLC	58
571-616-0.6	2. STLC	57
571-517-0	2. STLC	56
571-112-0.9	2. STLC	56
571-214-0	2. STLC	55
571-415-0.3	2. STLC	55
571-405-0.6	2. STLC	55
571-530-0	2. STLC	55
571-831-0	2. STLC	53
571-709-0	2. STLC	53
571-103-0.0	2. STLC	52
571-312-0	2. STLC	51
571-526-0	2. STLC	51
571-819-1.5	2. STLC	51
571-515-0	2. STLC	50
571-833-0	2. STLC	49
571-815-0.6	2. STLC	47
571-517-0.3	2. STLC	46
571-610-0	2. STLC	46
571-413-0	2. STLC	46
571-815-0	2. STLC	45
571-514-0.9	2. STLC	44
571-505-1.5	2. STLC	44
571-528-0	2. STLC	44
571-610-0.6	2. STLC	43
571-629-0	2. STLC	43
571-604-0	2. STLC	42
571-213-0	2. STLC	41
571-812-0	2. STLC	41
571-706-0	2. STLC	41
571-530-0.6	2. STLC	41
571-305-0	2. STLC	40
571-523-0.3	2. STLC	39
571-510-0	2. STLC	39
571-305-0.9	2. STLC	39
571-818-1.5	2. STLC	39
571-703-0	2. STLC	38
571-520-0.3	2. STLC	36
571-216-0	2. STLC	34
571-827-0	2. STLC	34
571-708-0.3	2. STLC	34
571-514-0.6	2. STLC	33
571-528-1.5	2. STLC	33
571-803-0	2. STLC	33
571-414-0.3	2. STLC	33
571-813-0.3	2. STLC	32
571-523-0	2. STLC	31
571-326-0	2. STLC	31
571-502-0.6	2. STLC	31
571-624-1.5	2. STLC	31
571-330-0	2. STLC	31
571-512-0.3	2. STLC	30
571-521-0.6	2. STLC	29
571-706-0.3	2. STLC	29
571-814-0.6	2. STLC	28
571-616-1.5	2. STLC	28
571-835-0	2. STLC	28
571-811-0.3	2. STLC	28
571-101-0.6	2. STLC	28
571-112-0	2. STLC	28
571-315-0	2. STLC	27
571-622-0	2. STLC	27
571-607-0.6	2. STLC	27
571-609-0.6	2. STLC	27

569-709-0	2. STLC	19
569-202-0.3	2. STLC	19
569-602-0	2. STLC	19
569-207-0.3	2. STLC	19
569-706-0.3	2. STLC	17
569-807-0.9	2. STLC	17
569-104-0.9	2. STLC	17
569-505-0.6	2. STLC	17
569-704-0.6	2. STLC	16
569-808-0.6	2. STLC	16
569-212-0.3	2. STLC	16
569-612-0	2. STLC	16
569-704-1.5	2. STLC	15
569-411-0.3	2. STLC	15
569-113-0	2. STLC	15
569-807-0.6	2. STLC	14
569-311-0.3	2. STLC	12
569-312-0	2. STLC	10
569-311-0.9	2. STLC	8.3

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570-401-0.3	2. STLC	17
570-616-0.6	2. STLC	17
570-308-0	2. STLC	16
570-807-0.9	2. STLC	16
570-701-0.6	2. STLC	16
570-617-0.3	2. STLC	16
570-107-0.6	2. STLC	15
570-811-0.6	2. STLC	15
570-707-0	2. STLC	15
570-518-0	2. STLC	15
570-111-0.0	2. STLC	15
570-109-0.6	2. STLC	14
570-401-0.9	2. STLC	4.1
570-408-0	2. STLC	4
570-409-0.3	2. STLC	3
570-401-0.6		0
570-401-1.5		0
570-408-0.6		0
570-408-1.5		0

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571-837-0.3	2. STLC	27
571-520-0	2. STLC	26
571-516-0.3	2. STLC	26
571-420-0	2. STLC	26
571-102-0.6	2. STLC	26
571-517-1.5	2. STLC	25
571-513-0.6	2. STLC	25
571-623-0.6	2. STLC	25
571-112-0.3	2. STLC	25
571-326-0.6	2. STLC	24
571-619-0.3	2. STLC	24
571-619-0.9	2. STLC	24
571-528-0.3	2. STLC	24
571-706-0.6	2. STLC	24
571-112-0.6	2. STLC	24
571-327-0.6	2. STLC	23
571-817-0	2. STLC	23
571-425-0.6	2. STLC	22
571-118-0	2. STLC	22
571-829-0	2. STLC	22
571-828-0	2. STLC	22
571-122-0	2. STLC	21
571-101-1.5	2. STLC	21
571-530-0.3	2. STLC	21
571-406-0.6	2. STLC	20
571-517-0.6	2. STLC	20
571-835-0.3	2. STLC	20
571-501-0	2. STLC	20
571-518-0.9	2. STLC	19
571-510-0.3	2. STLC	19
571-814-0.9	2. STLC	19
571-522-0.6	2. STLC	19
571-622-1.5	2. STLC	19
571-812-0.6	2. STLC	19
571-701-0.6	2. STLC	19
571-704-0	2. STLC	19
571-711-0.6	2. STLC	19
571-212-0	2. STLC	18
571-839-0.6	2. STLC	18
571-610-1.5	2. STLC	18
571-709-0.3	2. STLC	18
571-311-0.6	2. STLC	17
571-620-0	2. STLC	17
571-109-0	2. STLC	17
571-704-0.3	2. STLC	17
571-207-1.5	2. STLC	16
571-203-0	2. STLC	16
571-616-0.3	2. STLC	16
571-317-0.3	2. STLC	16
571-629-0.3	2. STLC	16
571-416-0	2. STLC	15
571-419-0	2. STLC	15
571-526-0.3	2. STLC	15
571-619-0	2. STLC	15
571-606-0	2. STLC	15
571-115-0.6	2. STLC	14
571-202-0.9	2. STLC	11

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tblTEMP

WorkOrder	ClientSampID	TestNo	Analyte	PQL	DF	CollectionDate	AnalDate	PrepDate
057931	570-201-0	EPA 1311/ 7420	Lead	0.2	1	7/15/2002	8/7/2002	8/6/2002
057931	570-201-0	EPA 6010B	Antimony	2.5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-201-0	EPA 6010B	Arsenic	2.5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-201-0	EPA 6010B	Barium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-201-0	EPA 6010B	Beryllium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-201-0	EPA 6010B	Cadmium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-201-0	EPA 6010B	Chromium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-201-0	EPA 6010B	Cobalt	1.5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-201-0	EPA 6010B	Copper	1.5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-201-0	EPA 6010B	Lead	5	1	7/15/2002	7/17/2002	7/16/2002
057931	570-201-0	EPA 6010B	Molybdenum	2.5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-201-0	EPA 6010B	Nickel	1.5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-201-0	EPA 6010B	Selenium	2.5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-201-0	EPA 6010B	Silver	1.5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-201-0	EPA 6010B	Thallium	2.5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-201-0	EPA 6010B	Vanadium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-201-0	EPA 6010B	Zinc	5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-201-0	EPA 7471A	Mercury	0.1	1	7/15/2002	8/12/2002	8/7/2002
057931	570-201-0	EPA 9045C	pH	0.1	1	7/15/2002	7/18/2002	7/18/2002
057931	570-201-0.3	EPA 6010B	Lead	5	1	7/15/2002	7/17/2002	7/16/2002
057931	570-201-0.3	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/2/2002	7/30/2002
057931	570-201-0.3	WET/ EPA 7420	Lead	0.2	1	7/15/2002	7/25/2002	7/22/2002
057931	570-201-0.6	EPA 6010B	Lead	5	1	7/15/2002	7/17/2002	7/16/2002
057931	570-201-0.9	EPA 6010B	Lead	5	1	7/15/2002	7/17/2002	7/16/2002
057931	570-201-0.9	WET/ EPA 7420	Lead	0.2	1	7/15/2002	7/25/2002	7/22/2002
057931	570-201-1.5	EPA 6010B	Lead	5	1	7/15/2002	7/17/2002	7/16/2002
057931	570-201-1.5	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/2/2002	7/30/2002
057931	570-201-1.5	WET/ EPA 7420	Lead	0.4	2	7/15/2002	7/25/2002	7/22/2002
057931	570-202-0	EPA 1311/ 7420	Lead	0.2	1	7/15/2002	8/15/2002	8/13/2002
057931	570-202-0	EPA 6010B	Lead	5	1	7/15/2002	7/17/2002	7/16/2002
057931	570-202-0	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/2/2002	7/30/2002
057931	570-202-0	WET/ EPA 7420	Lead	0.8	4	7/15/2002	7/25/2002	7/22/2002
057931	570-202-0.3	EPA 6010B	Lead	5	1	7/15/2002	7/17/2002	7/16/2002
057931	570-202-0.3	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/2/2002	7/30/2002
057931	570-202-0.3	WET/ EPA 7420	Lead	0.2	1	7/15/2002	7/25/2002	7/22/2002

057931	570-202-0.6	EPA 6010B	Lead	5	1	7/15/2002	7/17/2002	7/16/2002
057931	570-202-0.6	WET/ EPA 7420	Lead	0.2	1	7/15/2002	7/25/2002	7/22/2002
057931	570-202-0.9	EPA 6010B	Lead	5	1	7/15/2002	7/17/2002	7/16/2002
057931	570-202-0.9	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/2/2002	7/30/2002
057931	570-202-0.9	WET/ EPA 7420	Lead	0.4	2	7/15/2002	7/25/2002	7/22/2002
057931	570-202-1.5	EPA 6010B	Lead	5	1	7/15/2002	7/17/2002	7/16/2002
057931	570-202-1.5	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/2/2002	7/30/2002
057931	570-202-1.5	WET/ EPA 7420	Lead	0.4	2	7/15/2002	7/25/2002	7/22/2002
057931	570-203-0	EPA 6010B	Lead	5	1	7/15/2002	7/17/2002	7/16/2002
057931	570-203-0	EPA 9045C	pH	0.1	1	7/15/2002	7/18/2002	7/18/2002
057931	570-203-0	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/2/2002	7/30/2002
057931	570-203-0	WET/ EPA 7420	Lead	0.2	1	7/15/2002	7/25/2002	7/22/2002
057931	570-203-0.3	EPA 6010B	Lead	5	1	7/15/2002	7/17/2002	7/16/2002
057931	570-203-0.3	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/2/2002	7/30/2002
057931	570-203-0.3	WET/ EPA 7420	Lead	0.2	1	7/15/2002	7/25/2002	7/22/2002
057931	570-203-0.6	EPA 6010B	Lead	5	1	7/15/2002	7/17/2002	7/16/2002
057931	570-203-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/2/2002	7/30/2002
057931	570-203-0.6	WET/ EPA 7420	Lead	0.2	1.	7/15/2002	7/25/2002	7/22/2002
057931	570-204-0	EPA 6010B	Lead	5	1	7/15/2002	7/17/2002	7/16/2002
057931	570-204-0	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/2/2002	7/30/2002
057931	570-204-0	WET/ EPA 7420	Lead	0.2	1	7/15/2002	7/25/2002	7/22/2002
057931	570-204-0.3	EPA 6010B	Lead	5	1	7/15/2002	7/17/2002	7/16/2002
057931	570-204-0.3	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/2/2002	7/30/2002
057931	570-204-0.3	WET/ EPA 7420	Lead	0.2	1	7/15/2002	7/25/2002	7/22/2002
057931	570-205-0	EPA 6010B	Lead	5	1	7/15/2002	7/17/2002	7/16/2002
057931	570-205-0	WET/ EPA 7420	Lead	0.2	1	7/15/2002	7/25/2002	7/22/2002
057931	570-205-0.3	EPA 6010B	Lead	5	1	7/15/2002	7/17/2002	7/16/2002
057931	570-205-0.6	EPA 6010B	Lead	5	1	7/15/2002	7/17/2002	7/16/2002
057931	570-205-0.9	EPA 6010B	Antimony	2.5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-205-0.9	EPA 6010B	Arsenic	2.5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-205-0.9	EPA 6010B	Barium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-205-0.9	EPA 6010B	Beryllium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-205-0.9	EPA 6010B	Cadmium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-205-0.9	EPA 6010B	Chromium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-205-0.9	EPA 6010B	Cobalt	1.5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-205-0.9	EPA 6010B	Copper	1.5	10	7/15/2002	8/10/2002	8/9/2002

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057931	570-205-0.9	EPA 6010B	Lead	5	1	7/15/2002	7/17/2002	7/16/2002
057931	570-205-0.9	EPA 6010B	Molybdenum	2.5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-205-0.9	EPA 6010B	Nickel	1.5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-205-0.9	EPA 6010B	Selenium	2.5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-205-0.9	EPA 6010B	Silver	1.5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-205-0.9	EPA 6010B	Thallium	2.5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-205-0.9	EPA 6010B	Vanadium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-205-0.9	EPA 6010B	Zinc	5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-205-0.9	EPA 7471A	Mercury	0.1	1	7/15/2002	8/9/2002	8/7/2002
057931	570-206-0	EPA 1311/ 7420	Lead	0.2	1	7/15/2002	8/15/2002	8/13/2002
057931	570-206-0	EPA 6010B	Lead	5	1	7/15/2002	7/17/2002	7/16/2002
057931	570-206-0	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/2/2002	7/30/2002
057931	570-206-0	WET/ EPA 7420	Lead	1.6	8	7/15/2002	7/25/2002	7/22/2002
057931	570-206-0.3	EPA 1311/ 7420	Lead	0.2	1	7/15/2002	8/15/2002	8/13/2002
057931	570-206-0.3	EPA 6010B	Lead	5	1	7/15/2002	7/17/2002	7/16/2002
057931	570-206-0.3	EPA 9045C	pH	0.1	1	7/15/2002	7/18/2002	7/18/2002
057931	570-206-0.3	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/2/2002	7/30/2002
057931	570-206-0.3	WET/ EPA 7420	Lead	1.6	8	7/15/2002	7/25/2002	7/22/2002
057931	570-206-0.6	EPA 6010B	Lead	5	1	7/15/2002	7/17/2002	7/16/2002
057931	570-206-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/2/2002	7/30/2002
057931	570-206-0.6	WET/ EPA 7420	Lead	0.4	2	7/15/2002	7/25/2002	7/22/2002
057931	570-206-0.9	EPA 6010B	Lead	5	1	7/15/2002	7/17/2002	7/16/2002
057931	570-206-1.5	EPA 6010B	Lead	5	1	7/15/2002	7/17/2002	7/16/2002
057931	570-207-0	EPA 1311/ 7420	Lead	0.2	1	7/15/2002	8/15/2002	8/13/2002
057931	570-207-0	EPA 6010B	Lead	5	1	7/15/2002	7/17/2002	7/16/2002
057931	570-207-0	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/2/2002	7/30/2002
057931	570-207-0	WET/ EPA 7420	Lead	1	5	7/15/2002	7/25/2002	7/22/2002
057931	570-207-0.3	EPA 6010B	Lead	5	1	7/15/2002	7/17/2002	7/16/2002
057931	570-207-0.3	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/2/2002	7/30/2002
057931	570-207-0.3	WET/ EPA 7420	Lead	0.2	1	7/15/2002	7/25/2002	7/22/2002
057931	570-207-0.6	EPA 1311/ 7420	Lead	0.2	1	7/15/2002	8/15/2002	8/13/2002
057931	570-207-0.6	EPA 6010B	Lead	5	1	7/15/2002	7/17/2002	7/16/2002
057931	570-207-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/2/2002	7/30/2002
057931	570-207-0.6	WET/ EPA 7420	Lead	0.4	2	7/15/2002	7/25/2002	7/22/2002
057931	570-208-0	EPA 1311/ 7420	Lead	0.2	1	7/15/2002	8/7/2002	8/6/2002
057931	570-208-0	EPA 6010B	Lead	5	1	7/15/2002	7/17/2002	7/16/2002

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057931	570-208-0.3	EPA 1311/ 7420	Lead	0.2	1	7/15/2002	8/16/2002	8/15/2002
057931	570-208-0.3	EPA 6010B	Antimony	2.5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-208-0.3	EPA 6010B	Arsenic	2.5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-208-0.3	EPA 6010B	Barium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-208-0.3	EPA 6010B	Beryllium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-208-0.3	EPA 6010B	Cadmium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-208-0.3	EPA 6010B	Chromium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-208-0.3	EPA 6010B	Cobalt	1.5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-208-0.3	EPA 6010B	Copper	1.5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-208-0.3	EPA 6010B	Lead	5	1	7/15/2002	7/17/2002	7/16/2002
057931	570-208-0.3	EPA 6010B	Molybdenum	2.5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-208-0.3	EPA 6010B	Nickel	1.5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-208-0.3	EPA 6010B	Selenium	2.5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-208-0.3	EPA 6010B	Silver	1.5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-208-0.3	EPA 6010B	Thallium	2.5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-208-0.3	EPA 6010B	Vanadium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-208-0.3	EPA 6010B	Zinc	5	10	7/15/2002	8/10/2002	8/9/2002
057931	570-208-0.3	EPA 7471A	Mercury	0.1	1	7/15/2002	8/13/2002	8/7/2002
057931	570-208-0.3	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/2/2002	7/30/2002
057931	570-208-0.3	WET/ EPA 7420	Lead	1.6	8	7/15/2002	7/25/2002	7/22/2002
057931	570-208-0.6	EPA 1311/ 7420	Lead	0.2	1	7/15/2002	8/15/2002	8/13/2002
057931	570-208-0.6	EPA 6010B	Lead	5	1	7/15/2002	7/17/2002	7/16/2002
057931	570-208-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/2/2002	7/30/2002
057931	570-208-0.6	WET/ EPA 7420	Lead	1.6	8	7/15/2002	7/25/2002	7/22/2002
057931	570-209-0	EPA 1311/ 7420	Lead	0.2	1	7/15/2002	8/15/2002	8/13/2002
057931	570-209-0	EPA 6010B	Lead	5	1	7/15/2002	7/17/2002	7/16/2002
057931	570-209-0	EPA 9045C	pH	0.1	1	7/15/2002	7/18/2002	7/18/2002
057931	570-209-0	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/2/2002	7/30/2002
057931	570-209-0	WET/ EPA 7420	Lead	1.6	8	7/15/2002	7/25/2002	7/22/2002
057931	570-209-0.3	EPA 1311/ 7420	Lead	0.2	1	7/15/2002	8/15/2002	8/13/2002
057931	570-209-0.3	EPA 6010B	Lead	5	1	7/15/2002	7/17/2002	7/16/2002
057931	570-209-0.3	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/2/2002	7/30/2002
057931	570-209-0.3	WET/ EPA 7420	Lead	0.8	4	7/15/2002	7/25/2002	7/22/2002
057931	570-209-0.6	EPA 6010B	Lead	5	1	7/15/2002	7/17/2002	7/16/2002
057931	570-209-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/2/2002	7/30/2002
057931	570-209-0.6	WET/ EPA 7420	Lead	0.2	1	7/15/2002	7/25/2002	7/22/2002

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057931	570-209-0.9	EPA 6010B	Lead	5	1	7/15/2002	7/17/2002	7/16/2002
057931	570-209-0.9	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/2/2002	7/30/2002
057931	570-209-0.9	WET/ EPA 7420	Lead	0.2	1	7/15/2002	7/25/2002	7/22/2002
057931	570-210-0	EPA 1311/ 7420	Lead	0.2	1	7/15/2002	8/15/2002	8/13/2002
057931	570-210-0	EPA 6010B	Lead	5	1	7/15/2002	7/17/2002	7/16/2002
057931	570-210-0	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/2/2002	7/30/2002
057931	570-210-0	WET/ EPA 7420	Lead	1.6	8	7/15/2002	7/25/2002	7/22/2002
057931	570-210-0.3	EPA 6010B	Lead	5	1	7/15/2002	7/17/2002	7/16/2002
057931	570-210-0.3	WET/ EPA 7420	Lead	0.2	1	7/15/2002	7/25/2002	7/22/2002
057931	570-210-0.6	EPA 1311/ 7420	Lead	0.2	1	7/15/2002	8/15/2002	8/13/2002
057931	570-210-0.6	EPA 6010B	Lead	5	1	7/15/2002	7/17/2002	7/16/2002
057931	570-210-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/2/2002	7/30/2002
057931	570-210-0.6	WET/ EPA 7420	Lead	0.8	4	7/15/2002	7/25/2002	7/22/2002
057931	570-211-0	EPA 1311/ 7420	Lead	0.2	1	7/15/2002	8/15/2002	8/13/2002
057931	570-211-0	EPA 6010B	Lead	5	1	7/15/2002	7/17/2002	7/16/2002
057931	570-211-0	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/2/2002	7/30/2002
057931	570-211-0	WET/ EPA 7420	Lead	0.8	4	7/15/2002	7/25/2002	7/22/2002
057931	570-211-0.3	EPA 6010B	Lead	5	1	7/15/2002	7/17/2002	7/16/2002
057931	570-211-0.3	WET/ EPA 7420	Lead	0.2	1	7/15/2002	7/25/2002	7/22/2002
057931	570-211-0.6	EPA 6010B	Lead	5	1	7/15/2002	7/17/2002	7/16/2002
057931	EB-1	EPA 6010B	Lead	0.005	1	7/15/2002	7/18/2002	7/17/2002

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August 15, 2002

David Shaler
Ninyo & Moore
475 Goddard Suite 200
Irvine, CA 92618
TEL: (949) 753-7070
FAX: (949) 753-7071

ELAP No.: 1838
NELAP No.: 02107CA
Workorder No.: 057932

RE: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

Attention: David Shaler

Enclosed are the results for sample(s) received on July 15, 2002 by Advanced Technology Laboratories and tested for the parameters indicated in the enclosed chain of custody.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

RECEIVED
AUG 2 6 2002
NINYO & MOORE
ORANGE COUNTY OFFICE

This cover letter is an integral part of this analytical report.

Laboratory	Site	Consultant
Advanced Technology Laboratories 3275 Walnut Avenue, Signal Hill, CA 90807 Tel. (562) 989-4045 Fax (562) 989-6348	Caltrans/I-10 (605-57)/Lead Survey TO 07-117070-PX Project # 203939001	Ninyo & Moore - David Shaler/Steve Reese 475 Goddard, Suite 200, Irvine, CA 92618 Tel. (949) 753-7070 Fax (949) 753-7071

Special Instructions
See Project specifications. 5 Day TAT. Fax COC to Steve Reese

Relinquished by: (name/date/time) [signature] 7-15-02	Received by: (name/date/time) [signature] 5:10p 7-15-02
Relinquished by: (name/date/time) [signature] 7-15-02 6:40p	Received by: (name/date/time) [signature] 7/15/02 6:35pm

Lab No	Sample I.D	Date	Time	Sample container P=plastic B=brass	Analyses: Total Lead EPA Method 6010	Analyses: pH EPA Method 9045
~~(struck through, initialed SR)~~	~~EB-2~~	~~7/15/02~~	~~3:35pm~~	~~P~~	~~X~~	
	570- 212-0.0	7/15/02	1:00pm	B	X	X
	570- 212-0.3	↓	1:10pm	↓	X	
	570- 212-0.6		1:30pm		X	
	570- 213-0.0		1:10pm		X	
	570- 214-0.0		1:55pm		X	
	570- 214-0.3		2:05pm		X	
	570- 215-0.0		1:52pm		X	
	570- 219-0.0		2:45pm		X	
	570- 219-0.3		1:50pm		X	
	570- 219-0.6		2:55pm		X	
	570- 217-0.0	↓	3:00pm	↓	X	
	570- 221-0.0	↓	3:45PM	↓	X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
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	570-				X	
	570-				X	
	570-				X	
	570-				X	

Total # of samples: 13

Advanced Technology Laboratories

Date: 7/22/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057932
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/15/2002 6:35:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057932-002A	570-212-0.0	150	mg/Kg	9603	5	1	7/15/2002	7/18/2002
057932-003A	570-212-0.3	10	mg/Kg	9603	5	1	7/15/2002	7/18/2002
057932-004A	570-212-0.6	16	mg/Kg	9603	5	1	7/15/2002	7/18/2002
057932-005A	570-213-0.0	85	mg/Kg	9603	5	1	7/15/2002	7/18/2002
057932-006A	570-214-0.0	1300	mg/Kg	9603	5	1	7/15/2002	7/18/2002
057932-007A	570-214-0.3	240	mg/Kg	9603	5	1	7/15/2002	7/18/2002
057932-008A	570-215-0.0	78	mg/Kg	9603	5	1	7/15/2002	7/18/2002
057932-009A	570-219-0.0	100	mg/Kg	9603	5	1	7/15/2002	7/18/2002
057932-010A	570-219-0.3	72	mg/Kg	9603	5	1	7/15/2002	7/18/2002
057932-011A	570-219-0.6	140	mg/Kg	9603	5	1	7/15/2002	7/18/2002
057932-012A	570-217-0.0	140	mg/Kg	9603	5	1	7/15/2002	7/18/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
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Advanced Technology Laboratories

Date: 7/22/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057932
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/15/2002 6:35:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057932-013A	570-221-0.0	240	mg/Kg	9603	5	1	7/15/2002	7/18/2002

Qualifiers:

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J - Analyte detected below quantitation limits
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DO - Surrogate Diluted Out
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Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: 7/22/2002

pH
EPA 9045C

CLIENT:	Ninyo & Moore	**Lab Order:**	057932
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/15/2002 6:35:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057932-002A	570-212-0.0	7.54	pH Units	R19556	0.1	1	7/15/2002	7/19/2002

Qualifiers:

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E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: 7/29/2002

LEAD BY ATOMIC ABSORPTION
WET/ EPA 7420

CLIENT: Ninyo & Moore
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Project No:
PO No:

Lab Order: 057932
Date Received: 7/15/2002 6:35:0
Matrix: Soil
Analyst: NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057932-002A	570-212-0.0	14	mg/L	9784	0.4	2	7/15/2002	7/26/2002
057932-005A	570-213-0.0	7.4	mg/L	9784	0.2	1	7/15/2002	7/26/2002
057932-007A	570-214-0.3	21	mg/L	9784	0.8	4	7/15/2002	7/26/2002
057932-008A	570-215-0.0	3.8	mg/L	9784	0.2	1	7/15/2002	7/26/2002
057932-009A	570-219-0.0	4.5	mg/L	9784	0.2	1	7/15/2002	7/26/2002
057932-010A	570-219-0.3	4.8	mg/L	9784	0.2	1	7/15/2002	7/26/2002
057932-011A	570-219-0.6	7.8	mg/L	9784	0.2	1	7/15/2002	7/26/2002
057932-012A	570-217-0.0	5.8	mg/L	9784	0.2	1	7/15/2002	7/26/2002
057932-013A	570-221-0.0	22	mg/L	9784	0.8	4	7/15/2002	7/26/2002

Qualifiers:
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DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: 8/5/2002

LEAD BY ATOMIC ABSORPTION
WET DI/ EPA 7420

CLIENT: Ninyo & Moore
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Project No:
PO No:

Lab Order: 057932
Date Received: 7/15/2002 6:35:0
Matrix: Soil
Analyst: NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057932-002A	570-212-0.0	ND	mg/L	9954	0.2	1	7/15/2002	8/2/2002
057932-005A	570-213-0.0	ND	mg/L	9954	0.2	1	7/15/2002	8/2/2002
057932-007A	570-214-0.3	ND	mg/L	9954	0.2	1	7/15/2002	8/2/2002
057932-011A	570-219-0.6	ND	mg/L	9954	0.2	1	7/15/2002	8/2/2002
057932-012A	570-217-0.0	ND	mg/L	9954	0.2	1	7/15/2002	8/2/2002
057932-013A	570-221-0.0	ND	mg/L	9954	0.2	1	7/15/2002	8/2/2002

Qualifiers:
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DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
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E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *13-Aug-02*

CLIENT: Ninyo & Moore
Lab Order: 057932
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Lab ID: 057932-006A

Client Sample ID: 570-214-0.0
Collection Date: 7/15/2002 1:55:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS	**(EPA 3050A)**			**EPA 6010B**		
RunID: ICP2_020810B	QC Batch: 10209					Analyst: **RQ**
Antimony	ND	2.5		mg/Kg	10	8/10/2002
Arsenic	20	2.5		mg/Kg	10	8/10/2002
Barium	210	1.5		mg/Kg	10	8/10/2002
Beryllium	ND	1.5		mg/Kg	10	8/10/2002
Cadmium	ND	1.5		mg/Kg	10	8/10/2002
Chromium	20	1.5		mg/Kg	10	8/10/2002
Cobalt	5.0	1.5		mg/Kg	10	8/10/2002
Copper	110	1.5		mg/Kg	10	8/10/2002
Molybdenum	3.2	2.5		mg/Kg	10	8/10/2002
Nickel	25	1.5		mg/Kg	10	8/10/2002
Selenium	ND	2.5		mg/Kg	10	8/10/2002
Silver	ND	1.5		mg/Kg	10	8/10/2002
Thallium	ND	2.5		mg/Kg	10	8/10/2002
Vanadium	30	1.5		mg/Kg	10	8/10/2002
Zinc	590	5.0		mg/Kg	10	8/10/2002
MERCURY BY COLD VAPOR TECHNIQUE	**(EPA 7471)**			**EPA 7471A**		
RunID: AA1_020809A	QC Batch: 10164					Analyst: **NS**
Mercury	0.17	0.10		mg/Kg	1	8/9/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
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H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: 8/15/2002

LEAD BY ATOMIC ABSORPTION
EPA 1311/ 7420

CLIENT:	Ninyo & Moore	**Lab Order:**	057932
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/15/2002 6:35:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057932-006A	570-214-0.0	1.3	mg/L	10224	0.2	1	7/15/2002	8/9/2002
057932-007A	570-214-0.3	0.38	mg/L	10359	0.2	1	7/15/2002	8/15/2002
057932-013A	570-221-0.0	0.27	mg/L	10359	0.2	1	7/15/2002	8/15/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *15-Aug-02*

CLIENT: Ninyo & Moore
Work Order: 057932
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10164

Sample ID: **MB-10164** SampType: **mblk** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809A**
Client ID: **ZZZZZ** Batch ID: **10164** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316084**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: **LCS-10164** SampType: **lcs** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809A**
Client ID: **ZZZZZ** Batch ID: **10164** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316083**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.043	0.10	2.08	0	98.2	80	120	0	0		

Sample ID: **057935-042AMS** SampType: **MS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809A**
Client ID: **ZZZZZ** Batch ID: **10164** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316081**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.03	0.10	0.83	0.1521	106	62	146	0	0		

Sample ID: **057935-042AMSD** SampType: **MSD** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809A**
Client ID: **ZZZZZ** Batch ID: **10164** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316082**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.9301	0.10	0.83	0.1521	93.7	62	146	1.03	10.2	33	

Sample ID: **057935-042ADUP** SampType: **DUP** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809A**
Client ID: **ZZZZZ** Batch ID: **10164** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316080**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.1234	0.10	0	0	0	0	0	0.1521	20.8	30	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

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ANALYTICAL QC SUMMARY REPORT

BatchID: 10209

Sample ID: **MB-10209** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/9/2002** Run ID: **ICP2_020810B**
Client ID: **ZZZZZ** Batch ID: **10209** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316560**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.0505	0.25									J
Arsenic	0.1785	0.25									J
Barium	ND	0.15									
Beryllium	0.011	0.15									J
Cadmium	0.0285	0.15									J
Chromium	ND	0.15									
Cobalt	0.038	0.15									J
Copper	ND	0.15									
Molybdenum	0.0045	0.25									J
Nickel	ND	0.15									
Selenium	ND	0.25									
Silver	0.036	0.15									J
Thallium	0.046	0.25									J
Vanadium	ND	0.15									
Zinc	0.037	0.50									J

Sample ID: **LCS-10209** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/9/2002** Run ID: **ICP2_020810B**
Client ID: **ZZZZZ** Batch ID: **10209** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316561**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	46	0.25	50	0	92	80	120	0	0		
Arsenic	47	0.25	50	0	94	80	120	0	0		
Barium	50.5	0.15	50	0	101	80	120	0	0		
Beryllium	46.5	0.15	50	0	93	80	120	0	0		
Cadmium	46	0.15	50	0	92	80	120	0	0		
Chromium	48	0.15	50	0	96	80	120	0	0		
Cobalt	47.5	0.15	50	0	95	80	120	0	0		
Copper	48.5	0.15	50	0	97	80	120	0	0		
Molybdenum	48	0.25	50	0	96	80	120	0	0		
Nickel	46	0.15	50	0	92	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; S - Spike/Surrogate outside limits due to matrix interference; B - Analyte detected in the associated Method Blank; DO - Surrogate diluted out; H - Sample exceeded holding time

Calculations are based on raw values

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ANALYTICAL QC SUMMARY REPORT

BatchID: 10209

Sample ID: LCS-10209 | SampType: LCS | TestCode: 6010_S | Units: mg/Kg | Prep Date: 8/9/2002 | Run ID: ICP2_020810B
Client ID: ZZZZZ | Batch ID: 10209 | TestNo: EPA 6010B (EPA 3050A) | Analysis Date: 8/10/2002 | SeqNo: 316561

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	43	0.25	50	0	86	80	120	0	0		
Silver	48.5	0.15	50	0	97	80	120	0	0		
Thallium	48	0.25	50	0	96	80	120	0	0		
Vanadium	48	0.15	50	0	96	80	120	0	0		
Zinc	47	0.50	50	0	94	80	120	0	0		

Sample ID: 057948-004AMS | SampType: MS | TestCode: 6010_S | Units: mg/Kg | Prep Date: 8/9/2002 | Run ID: ICP2_020810B
Client ID: ZZZZZ | Batch ID: 10209 | TestNo: EPA 6010B (EPA 3050A) | Analysis Date: 8/10/2002 | SeqNo: 316573

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	65	2.5	125	0.895	51.3	32	115	0	0		
Arsenic	130	2.5	125	10	96	59	111	0	0		
Barium	280	1.5	125	135	116	34	151	0	0		
Beryllium	120	1.5	125	0	96	56	112	0	0		
Cadmium	115	1.5	125	0	92	52	120	0	0		
Chromium	140	1.5	125	15	100	56	118	0	0		
Cobalt	130	1.5	125	10	96	58	117	0	0		
Copper	155	1.5	125	30	100	58	134	0	0		
Molybdenum	115	2.5	125	0.905	91.3	56	115	0	0		
Nickel	135	1.5	125	15	96	52	120	0	0		
Selenium	120	2.5	125	0	96	46	108	0	0		
Silver	125	1.5	125	0.1	99.9	74	117	0	0		
Thallium	125	2.5	125	2.41	98.1	62	117	0	0		
Vanadium	180	1.5	125	55	100	55	122	0	0		
Zinc	260	5.0	125	145	92	43	134	0	0		

Sample ID: 057948-004AMSD | SampType: MSD | TestCode: 6010_S | Units: mg/Kg | Prep Date: 8/9/2002 | Run ID: ICP2_020810B
Client ID: ZZZZZ | Batch ID: 10209 | TestNo: EPA 6010B (EPA 3050A) | Analysis Date: 8/10/2002 | SeqNo: 316574

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

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ANALYTICAL QC SUMMARY REPORT

BatchID: 10209

Sample ID: **057948-004AMSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/9/2002** Run ID: **ICP2_020810B**
Client ID: **ZZZZZ** Batch ID: **10209** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316574**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	75	2.5	125	0.895	59.3	32	115	65	14.3	20	
Arsenic	135	2.5	125	10	100	59	111	130	3.77	20	
Barium	265	1.5	125	135	104	34	151	280	5.50	20	
Beryllium	120	1.5	125	0	96	56	112	120	0	20	
Cadmium	115	1.5	125	0	92	52	120	115	0	20	
Chromium	140	1.5	125	15	100	56	118	140	0	20	
Cobalt	130	1.5	125	10	96	58	117	130	0	20	
Copper	160	1.5	125	30	104	58	134	155	3.17	20	
Molybdenum	120	2.5	125	0.905	95.3	56	115	115	4.26	20	
Nickel	140	1.5	125	15	100	52	120	135	3.64	20	
Selenium	125	2.5	125	0	100	46	108	120	4.08	20	
Silver	125	1.5	125	0.1	99.9	74	117	125	0	20	
Thallium	130	2.5	125	2.41	102	62	117	125	3.92	20	
Vanadium	185	1.5	125	55	104	55	122	180	2.74	20	
Zinc	280	5.0	125	145	108	43	134	260	7.41	20	

Sample ID: **057948-004ADUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/9/2002** Run ID: **ICP2_020810B**
Client ID: **ZZZZZ** Batch ID: **10209** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316572**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.13	2.5	0	0	0	0	0	0.895	0	30	J
Arsenic	10	2.5	0	0	0	0	0	10	0	30	
Barium	130	1.5	0	0	0	0	0	135	3.77	30	
Beryllium	ND	1.5	0	0	0	0	0	0	0	30	
Cadmium	ND	1.5	0	0	0	0	0	0	0	30	
Chromium	15	1.5	0	0	0	0	0	15	0	30	
Cobalt	10	1.5	0	0	0	0	0	10	0	30	
Copper	30	1.5	0	0	0	0	0	30	0	30	
Molybdenum	1.19	2.5	0	0	0	0	0	0.905	0	30	J
Nickel	15	1.5	0	0	0	0	0	15	0	30	

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 10209

Sample ID: **057948-004ADUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/9/2002** Run ID: **ICP2_020810B**
Client ID: **ZZZZZ** Batch ID: **10209** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316572**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	ND	2.5	0	0	0	0	0	0	0	30	
Silver	0.4	1.5	0	0	0	0	0	0.1	0	30	J
Thallium	1.715	2.5	0	0	0	0	0	2.41	0	30	J
Vanadium	55	1.5	0	0	0	0	0	55	0	30	
Zinc	155	5.0	0	0	0	0	0	145	6.67	30	

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 10224

Sample ID: **MB-10224** SampType: **mblk** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/8/2002** Run ID: **AA2_020809C**
Client ID: **ZZZZZ** Batch ID: **10224** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/9/2002** SeqNo: **316180**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-10159-TCLP** SampType: **mblk** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/8/2002** Run ID: **AA2_020809C**
Client ID: **ZZZZZ** Batch ID: **10224** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/9/2002** SeqNo: **316181**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-10224** SampType: **lcs** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/8/2002** Run ID: **AA2_020809C**
Client ID: **ZZZZZ** Batch ID: **10224** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/9/2002** SeqNo: **316187**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.134	0.20	1	0	113	80	120	0	0		

Sample ID: **057932-006AMS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/8/2002** Run ID: **AA2_020809C**
Client ID: **570-214-0.0** Batch ID: **10224** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/9/2002** SeqNo: **316185**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.766	0.20	2.5	1.337	97.2	80	120	0	0		

Sample ID: **057932-006ADUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/8/2002** Run ID: **AA2_020809C**
Client ID: **570-214-0.0** Batch ID: **10224** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/9/2002** SeqNo: **316184**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.6147	0.20	0	0	0	0	0	1.337	74.0	30	R

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 10359

Sample ID: MB-10359 | SampType: MBLK | TestCode: 7420_TC | Units: mg/L | Prep Date: 8/14/2002 | Run ID: AA2_020814W
Client ID: ZZZZZ | Batch ID: 10359 | TestNo: EPA 1311/ 74 (EPA 3010A) | Analysis Date: 8/15/2002 | SeqNo: 319032

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: MB-10272-TCLP | SampType: MBLK | TestCode: 7420_TC | Units: mg/L | Prep Date: 8/14/2002 | Run ID: AA2_020814W
Client ID: ZZZZZ | Batch ID: 10359 | TestNo: EPA 1311/ 74 (EPA 3010A) | Analysis Date: 8/15/2002 | SeqNo: 319033

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: LCS-10359 | SampType: LCS | TestCode: 7420_TC | Units: mg/L | Prep Date: 8/14/2002 | Run ID: AA2_020814W
Client ID: ZZZZZ | Batch ID: 10359 | TestNo: EPA 1311/ 74 (EPA 3010A) | Analysis Date: 8/15/2002 | SeqNo: 319047

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.017	0.20	1	0	102	80	120	0	0		

Sample ID: 058021-059AMS | SampType: MS | TestCode: 7420_TC | Units: mg/L | Prep Date: 8/14/2002 | Run ID: AA2_020814W
Client ID: ZZZZZ | Batch ID: 10359 | TestNo: EPA 1311/ 74 (EPA 3010A) | Analysis Date: 8/15/2002 | SeqNo: 319045

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.223	0.20	2.5	4.397	113	80	120	0	0		

Sample ID: 058021-059ADUP | SampType: DUP | TestCode: 7420_TC | Units: mg/L | Prep Date: 8/14/2002 | Run ID: AA2_020814W
Client ID: ZZZZZ | Batch ID: 10359 | TestNo: EPA 1311/ 74 (EPA 3010A) | Analysis Date: 8/15/2002 | SeqNo: 319044

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.234	0.20	0	0	0	0	0	4.397	17.4	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9603

Sample ID: **MB-9603A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718A**
Client ID: **ZZZZZ** Batch ID: **9603** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301045**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **MB-9603B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718A**
Client ID: **ZZZZZ** Batch ID: **9603** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301046**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-9603** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718A**
Client ID: **ZZZZZ** Batch ID: **9603** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301044**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	230.7	5.0	250	0	92.3	80	120	0	0		

Sample ID: **057932-011AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718A**
Client ID: **570-219-0.6** Batch ID: **9603** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301030**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	252.3	5.0	250	143.3	43.6	47	128	0	0		S

Sample ID: **057934-009AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718A**
Client ID: **ZZZZZ** Batch ID: **9603** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301042**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	888.6	5.0	250	844.1	17.8	47	128	0	0		S

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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DO - Surrogate diluted out
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9603

Sample ID: **057932-011ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718A**
Client ID: **570-219-0.6** Batch ID: **9603** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301029**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	103.2	5.0	0	0	0	0	0	143.3	32.5	30	R

Sample ID: **057934-009ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/16/2002** Run ID: **ICP5_020718A**
Client ID: **ZZZZZ** Batch ID: **9603** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301041**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	764.7	5.0	0	0	0	0	0	844.1	9.87	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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CLIENT: Ninyo & Moore
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9784

Sample ID: **MB-9784** SampType: **mblk** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020726M**
Client ID: **ZZZZZ** Batch ID: **9784** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307497**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9784A** SampType: **mblk** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/24/2002** Run ID: **AA2_020726M**
Client ID: **ZZZZZ** Batch ID: **9784** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307498**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.0712	0.20									

Sample ID: **MB-9784B** SampType: **mblk** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/24/2002** Run ID: **AA2_020726M**
Client ID: **ZZZZZ** Batch ID: **9784** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307511**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.08088	0.20									

Sample ID: **LCS-9784** SampType: **lcs** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020726M**
Client ID: **ZZZZZ** Batch ID: **9784** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307525**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.862	0.20	7.5	0	105	80	120	0	0		

Sample ID: **057936-001AMS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020726M**
Client ID: **ZZZZZ** Batch ID: **9784** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307510**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	197.9	4.0	100	94.59	103	80	120	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Ninyo & Moore
Work Order: 057932
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 9784

Sample ID: **057936-017AMS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020726M**
Client ID: **ZZZZZ** Batch ID: **9784** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307523**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	32.31	0.80	20	12.94	96.8	80	120	0	0		

Sample ID: **057936-001ADUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/24/2002** Run ID: **AA2_020726M**
Client ID: **ZZZZZ** Batch ID: **9784** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307509**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	93.43	2.0	0	0	0	0	0	94.59	1.24	30	

Sample ID: **057936-017ADUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/24/2002** Run ID: **AA2_020726M**
Client ID: **ZZZZZ** Batch ID: **9784** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307522**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	12.85	0.40	0	0	0	0	0	12.94	0.750	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

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CLIENT: Ninyo & Moore
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Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 9954

Sample ID: **MB-9954** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802I**
Client ID: **ZZZZZ** Batch ID: **9954** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312395**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.08713	0.20									

Sample ID: **MB-9954A** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020802I**
Client ID: **ZZZZZ** Batch ID: **9954** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312396**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.07562	0.20									

Sample ID: **MB-9954B** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020802I**
Client ID: **ZZZZZ** Batch ID: **9954** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312409**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-9954** SampType: **LCS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802I**
Client ID: **ZZZZZ** Batch ID: **9954** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312423**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.228	0.20	7.5	0	96.4	80	120	0	0		

Sample ID: **057932-011AMS** SampType: **MS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802I**
Client ID: **570-219-0.6** Batch ID: **9954** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312408**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.117	0.20	5	0.1064	100	80	120	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

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CLIENT: Ninyo & Moore
Work Order: 057932
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 9954

Sample ID: **057948-036AMS** SampType: **MS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802I**
Client ID: **ZZZZZ** Batch ID: **9954** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312421**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.204	0.20	5	0.07566	103	80	120	0	0		

Sample ID: **057932-011ADUP** SampType: **DUP** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020802I**
Client ID: **570-219-0.6** Batch ID: **9954** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312407**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20	0	0	0	0	0	0.1064	0	30	

Sample ID: **057948-036ADUP** SampType: **DUP** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020802I**
Client ID: **ZZZZZ** Batch ID: **9954** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312420**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.118	0.20	0	0	0	0	0	0.07566	0	30	J

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

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3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Ninyo & Moore
Work Order: 057932
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: R19556

Sample ID: **057936-020A-DUP** SampType: **DUP** TestCode: **9045_S** Units: **pH Units** Prep Date: **7/19/2002** Run ID: **WETCHEM_020719A**
Client ID: **ZZZZZ** Batch ID: **R19556** TestNo: **EPA 9045C** Analysis Date: **7/19/2002** SeqNo: **301616**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.065	0.10	0	0	0	0	0	6.97	1.35	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

Rachelle

From: Steve Reese [sreese@ninyoandmoore.com]
Sent: Wednesday, July 31, 2002 9:27 AM
To: 'rachelle@atlglobal.com'
Cc: David Shaler (E-mail); Ruth Cheung (E-mail)
Subject: TCLP Analysis

TCLP.xls

Rachelle,
Attached please find a list of samples to be run for the TCLP analysis. Currently, we selected all of the samples that are greater than 1,000 mg/kg
of TTLC results. However, they will be ran by instruction only. There may
be more samples chosen for TCLP analysis in the future, but please run these 82 samples for now. Please call with any questions.
Thank you, Steve

Stephen S. Reese
Senior Staff Environmental Scientist
Ninyo & Moore Geotechnical & Environmental Sciences Consultants
475 Goddard, Suite 200
Irvine, California 92618
Tel: (949) 753-7070
Fax: (949) 753-7071
Email: sreese@ninyoandmoore.com
www.ninyoandmoore.com

RUN FOR TCLP ANALYSIS			
33	20	29	82
569-101-0	570-101-0	571-104-0	
569-102-0	570-101-0.6	571-120-0	
569-102-0.3	570-102-0.6	571-310-0.9	
569-102-0.9	570-103-1.5	571-317-0	
569-111-0	570-114-0.6	571-320-0	
569-112-0	570-115-0	571-325-0.6	
569-112-0.6	570-119-0.3	571-507-0	
569-201-0	570-201-0	571-511-0	
569-212-0	570-214-0	571-514-0	
569-301-0	570-311-0.6	571-524-0	
569-303-0.9	570-312-0.6	571-710-0	
569-314-0	570-504-0	571-710-0.3	
569-401-0	570-508-0	571-711-0	
569-404-0.6	570-517-0	571-711-0.3	
569-405-0.6	570-517-0.3	571-712-0	
569-408-0.9	570-610-0.6	571-712-0.3	
569-502-0.6	570-615-0	571-201-0.6	
569-516-0	570-706-0	571-405-0	
569-603-0.3	570-709-0	571-406-0	
569-607-0	570-808-0.6	571-407-0	
569-607-0.3		571-414-0	
569-609-0		571-609-0	
569-609-0.3		571-611-0	
569-703-0		571-616-0	
569-703-0.9		571-617-0	
569-705-0		571-619-1.5	
569-705-0.3		571-814-0.3	
569-706-0		571-818-0.6	
569-708-0		571-819-0	
569-710-0			
569-711-0			
569-711-0.3			
569-801-0.3			

Rachelle

From: Ruth Cheung [rcheung@ninyoandmoore.com]
Sent: Tuesday, August 06, 2002 3:46 PM
To: 'Rachelle'; 'David Shaler (E-mail)'
Subject: Title 22 Metals

Title 22 Metals.xls

Rachelle,
Please run the following samples for Title 22 Metals. Please do not list
Pb in your emailed results. There should be a total of 120 samples to be
run.
Thanks.

Ruth L. Cheung
Staff Environmental Scientist
Ninyo & Moore
(949) 753-7070 x2273

569-102-0.9	570-101-0	571-101-0.9
569-112-0	570-101-0.6	571-104-0
569-201-0	570-201-0	571-201-0.6
569-206-0.6	570-205-0.9	571-108-1.5
569-106-1.5	570-106-0.3	571-111-0.3
569-212-0	570-208-1.5	571-207-0
569-401-0.6	570-111-0.6	571-210-0.6
569-301-0	570-214-0	571-115-0.9
569-303-0.9	570-115-0.3	571-214-0.3
569-404-0.6	570-119-0.9	571-120-0
569-408-0.9	570-224-0.6	571-217-1.5
569-314-0	570-401-0	571-220-0.6
569-313-0.3	570-401-0.3	571-301-0.3
569-502-0.6	570-304-1.5	571-405-0
569-602-1.5	570-307-0.9	571-306-0.9
569-607-0.3	570-311-0.6	571-407-0
569-607-0	570-312-0.6	571-310-0.9
569-508-0.9	570-316-0.3	571-315-0.3
569-511-0.6	570-601-0	571-412-1.5
569-612-1.5	570-505-1.5	571-317-0
569-516-0	570-508-0	571-320-0.6
569-801-0.3	570-610-0.6	571-416-0.9
569-519-0.6	570-511-0.9	571-325-0.3
569-803-0.9	570-615-0	571-421-1.5
569-705-0	570-514-0.3	571-425-0
569-806-1.5	570-517-0	571-501-0.6
569-708-0.3	570-618-0.6	571-503-0.9
569-711-0	570-621-1.5	571-603-0.3
569-811-0	570-703-0.9	571-507-0
	570-804-0	571-609-0
	570-706-0	571-510-1.5
	570-709-0	571-611-0
	570-808-0.6	571-514-0
	570-711-1.5	571-614-0.3
	570-812-0.3	571-517-0.9
		571-617-0.6
		571-520-1.5
		571-621-0.3
		571-524-0
		571-624-0.9
		571-529-0.3
		571-628-0.6
		571-703-1.5
		571-707-0
		571-804-0.9
		571-809-0.3
		571-711-0
		571-712-0
		571-814-0.3
		571-818-0.6
		571-819-0
		571-827-1.5

571-832-0.9
571-836-0.3
571-837-0.6
571-842-0

Rachelle

From: Ruth Cheung [rcheung@ninyoandmoore.com]
Sent: Thursday, August 08, 2002 9:14 AM
To: 'Rachelle'
Subject: TCLP Analysis

TCLP-3.xls

In addition to the 90 TCLP already run please run the following samples for
TCLP. There should be a list of 350 samples.
Thanks for a the hard work and timely results.

Ruth L. Cheung
Staff Environmental Scientist
Ninyo & Moore
(949) 753-7070 x2273

-----Original Message-----
From: Rachelle [SMTP:Rachelle@ATLGlobal.com]
Sent: Wednesday, August 07, 2002 5:02 PM
To: 'David Shaler (E-mail)'
Cc: 'Ruth Cheung (E-mail)'
Subject: TCLP Results

<<57931TCLP.xls>> <<58001TCLP.xls>> <<58021TCLP.xls>> <<58022TCLP.xls>>
<<58023TCLP.xls>> <<58024TCLP.xls>> <<58049TCLP.xls>> <<58050TCLP.xls>>
<<58052TCLP.xls>> <<58053TCLP.xls>> <<58065TCLP.xls>> <<58066TCLP.xls>>
<<58067TCLP.xls>> <<58068TCLP.xls>> <<58069TCLP.xls>>

Rachelle Arada
Project Coordinator
www.atlglobal.com
voice: 562.989.4045 ext 237
fax : 562.989.4040

<< File: 57931TCLP.xls >> << File: 58001TCLP.xls >> << File: 58021TCLP.xls >> << File: 58022TCLP.xls >> << File: 58023TCLP.xls >> << File: 58024TCLP.xls >> << File: 58049TCLP.xls >> << File: 58050TCLP.xls >> << File: 58052TCLP.xls >> << File: 58053TCLP.xls >> << File: 58065TCLP.xls >> << File: 58066TCLP.xls >> << File: 58067TCLP.xls >> << File: 58068TCLP.xls >> << File: 58069TCLP.xls >>

569-404-0	2. STLC	170
569-402-0	2. STLC	130
569-406-0	2. STLC	120
569-515-0	2. STLC	110
569-611-0	2. STLC	100
569-409-0	2. STLC	94
569-603-0	2. STLC	93
569-104-0.6	2. STLC	91
569-807-0	2. STLC	86
569-608-0	2. STLC	86
569-501-0	2. STLC	84
569-710-0.3	2. STLC	83
569-808-0	2. STLC	83
569-609-0.6	2. STLC	80
569-803-0	2. STLC	79
569-105-0	2. STLC	78
569-512-0	2. STLC	77
569-513-0	2. STLC	77
569-302-0	2. STLC	74
569-805-0	2. STLC	73
569-517-0	2. STLC	71
569-704-0.3	2. STLC	71
569-703-0.6	2. STLC	70
569-514-0.3	2. STLC	70
569-803-0.3	2. STLC	69
569-409-0.6	2. STLC	69
569-411-0	2. STLC	68
569-102-0.6	2. STLC	68
569-809-0	2. STLC	65
569-605-0	2. STLC	65
569-711-0.6	2. STLC	62
569-806-0	2. STLC	60
569-802-0.3	2. STLC	60
569-410-0	2. STLC	59
569-501-0.6	2. STLC	59
569-808-0.3	2. STLC	58
569-104-0	2. STLC	56
569-804-0	2. STLC	54
569-610-0	2. STLC	54
569-608-0.3	2. STLC	53
569-213-0	2. STLC	49
569-701-0	2. STLC	47
569-311-0	2. STLC	47
569-609-0.9	2. STLC	46
569-513-0.3	2. STLC	45
569-801-0.6	2. STLC	44
569-514-0	2. STLC	42
569-805-0.6	2. STLC	42
569-408-1.5	2. STLC	42
569-807-0.3	2. STLC	40
569-204-0	2. STLC	40
569-517-0.3	2. STLC	36
569-518-0	2. STLC	36
569-806-0.3	2. STLC	36
569-705-1.5	2. STLC	35
569-303-0.6	2. STLC	34
569-516-0.3	2. STLC	33
569-705-0.6	2. STLC	33
569-802-0	2. STLC	33
569-515-0.6	2. STLC	32
569-704-0	2. STLC	32
569-401-0.3	2. STLC	32
569-207-0	2. STLC	32
569-608-0.6	2. STLC	31
569-104-0.3	2. STLC	31
569-201-0.6	2. STLC	30
569-515-0.3	2. STLC	28
569-212-0.6	2. STLC	28
569-103-0	2. STLC	28
569-313-0	2. STLC	27
569-103-0.3	2. STLC	26
569-705-0.9	2. STLC	25
569-707-0.3	2. STLC	25
569-515-1.5	2. STLC	24
569-508-0	2. STLC	24
569-801-0	2. STLC	24
569-402-0.6	2. STLC	24
569-516-0.6	2. STLC	22
569-509-0.3	2. STLC	22
569-106-0	2. STLC	22
569-106-0.3	2. STLC	22
569-202-0	2. STLC	21
569-805-1.5	2. STLC	21
569-205-0	2. STLC	20
569-707-0	2. STLC	19

570-515-0.3	2. STLC	120
570-811-0	2. STLC	110
570-114-0.0	2. STLC	110
570-504-0.6	2. STLC	100
570-811-1.5	2. STLC	90
570-615-0.6	2. STLC	84
570-305-0	2. STLC	79
570-314-0.6	2. STLC	76
570-505-0.6	2. STLC	75
570-208-0.6	2. STLC	74
570-116-0.0	2. STLC	73
570-102-0	2. STLC	65
570-804-0.6	2. STLC	64
570-704-0	2. STLC	63
570-508-0.6	2. STLC	60
570-706-0.3	2. STLC	60
570-303-0	2. STLC	58
570-311-1.5	2. STLC	58
570-117-0.0	2. STLC	58
570-208-0.3	2. STLC	58
570-709-0.6	2. STLC	57
570-703-0	2. STLC	55
570-206-0	2. STLC	54
570-301-0	2. STLC	53
570-603-0.3	2. STLC	46
570-711-0.6	2. STLC	46
570-206-0.3	2. STLC	45
570-103-0	2. STLC	44
570-602-0	2. STLC	41
570-209-0	2. STLC	40
570-210-0	2. STLC	40
570-117-0.3	2. STLC	39
570-103-0.6	2. STLC	37
570-110-0.6	2. STLC	37
570-805-0.9	2. STLC	36
570-112-1.5	2. STLC	35
570-614-0	2. STLC	34
570-713-0.3	2. STLC	33
570-513-0	2. STLC	32
570-312-0.3	2. STLC	31
570-503-0.6	2. STLC	31
570-510-0.6	2. STLC	31
570-202-0	2. STLC	31
570-207-0	2. STLC	31
570-209-0.3	2. STLC	31
570-703-0.3	2. STLC	30
570-401-0	2. STLC	30
570-610-0.9	2. STLC	29
570-809-0.6	2. STLC	29
570-509-0.9	2. STLC	29
570-210-0.6	2. STLC	29
570-211-0	2. STLC	29
570-603-0	2. STLC	28
570-119-0	2. STLC	28
570-713-0.6	2. STLC	28
570-108-0	2. STLC	27
570-708-0.6	2. STLC	27
570-224-0	2. STLC	26
570-601-0	2. STLC	26
570-710-0.6	2. STLC	26
570-614-0.6	2. STLC	26
570-118-0.3	2. STLC	26
570-304-0	2. STLC	25
570-707-0.6	2. STLC	25
570-510-0	2. STLC	25
570-110-0	2. STLC	24
570-223-0	2. STLC	24
570-117-0.6	2. STLC	24
570-616-0	2. STLC	23
570-704-0.3	2. STLC	22
570-513-0.6	2. STLC	22
570-221-0.0	2. STLC	22
570-617-0	2. STLC	21
570-214-0.3	2. STLC	21
570-122-0.9	2. STLC	20
570-313-0.6	2. STLC	19
570-207-0.6	2. STLC	19
570-120-0.9	2. STLC	18
570-506-0	2. STLC	18
570-102-0.9	2. STLC	17
570-216-0	2. STLC	17
570-225-0	2. STLC	17
570-304-0.3	2. STLC	17
570-409-0	2. STLC	17
570-713-0	2. STLC	17

571-521-0	2. STLC	230
571-324-0.9	2. STLC	110
571-818-0	2. STLC	110
571-819-0.6	2. STLC	110
571-708-0	2. STLC	110
571-103-0.6	2. STLC	110
571-617-0.3	2. STLC	100
571-611-0.6	2. STLC	92
571-712-0.9	2. STLC	81
571-105-0.6	2. STLC	81
571-313-0	2. STLC	79
571-508-0	2. STLC	73
571-518-0.3	2. STLC	73
571-217-0	2. STLC	68
571-516-0	2. STLC	66
571-701-0.3	2. STLC	66
571-710-0.6	2. STLC	65
571-512-0	2. STLC	64
571-308-0.9	2. STLC	61
571-701-0	2. STLC	61
571-514-0.3	2. STLC	59
571-415-0	2. STLC	58
571-616-0.6	2. STLC	57
571-517-0	2. STLC	56
571-112-0.9	2. STLC	56
571-214-0	2. STLC	55
571-415-0.3	2. STLC	55
571-405-0.6	2. STLC	55
571-530-0	2. STLC	55
571-831-0	2. STLC	53
571-709-0	2. STLC	53
571-103-0.0	2. STLC	52
571-312-0	2. STLC	51
571-526-0	2. STLC	51
571-819-1.5	2. STLC	51
571-515-0	2. STLC	50
571-833-0	2. STLC	49
571-815-0.6	2. STLC	47
571-517-0.3	2. STLC	46
571-610-0	2. STLC	46
571-413-0	2. STLC	46
571-815-0	2. STLC	45
571-514-0.9	2. STLC	44
571-505-1.5	2. STLC	44
571-528-0	2. STLC	44
571-610-0.6	2. STLC	43
571-629-0	2. STLC	43
571-604-0	2. STLC	42
571-213-0	2. STLC	41
571-812-0	2. STLC	41
571-706-0	2. STLC	41
571-530-0.6	2. STLC	41
571-305-0	2. STLC	40
571-523-0.3	2. STLC	39
571-510-0	2. STLC	39
571-305-0.9	2. STLC	39
571-818-1.5	2. STLC	39
571-703-0	2. STLC	38
571-520-0.3	2. STLC	36
571-216-0	2. STLC	34
571-827-0	2. STLC	34
571-708-0.3	2. STLC	34
571-514-0.6	2. STLC	33
571-528-1.5	2. STLC	33
571-803-0	2. STLC	33
571-414-0.3	2. STLC	33
571-813-0.3	2. STLC	32
571-523-0	2. STLC	31
571-326-0	2. STLC	31
571-502-0.6	2. STLC	31
571-624-1.5	2. STLC	31
571-330-0	2. STLC	31
571-512-0.3	2. STLC	30
571-521-0.6	2. STLC	29
571-706-0.3	2. STLC	29
571-814-0.6	2. STLC	28
571-616-1.5	2. STLC	28
571-835-0	2. STLC	28
571-811-0.3	2. STLC	28
571-101-0.6	2. STLC	28
571-112-0	2. STLC	28
571-315-0	2. STLC	27
571-622-0	2. STLC	27
571-607-0.6	2. STLC	27
571-609-0.6	2. STLC	27

569-709-0	2. STLC	19
569-202-0.3	2. STLC	19
569-602-0	2. STLC	19
569-207-0.3	2. STLC	19
569-706-0.3	2. STLC	17
569-807-0.9	2. STLC	17
569-104-0.9	2. STLC	17
569-505-0.6	2. STLC	17
569-704-0.6	2. STLC	16
569-808-0.6	2. STLC	16
569-212-0.3	2. STLC	16
569-612-0	2. STLC	16
569-704-1.5	2. STLC	15
569-411-0.3	2. STLC	15
569-113-0	2. STLC	15
569-807-0.6	2. STLC	14
569-311-0.3	2. STLC	12
569-312-0	2. STLC	10
569-311-0.9	2. STLC	8.3

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570-401-0.3	2. STLC	17
570-616-0.6	2. STLC	17
570-308-0	2. STLC	16
570-807-0.9	2. STLC	16
570-701-0.6	2. STLC	16
570-617-0.3	2. STLC	16
570-107-0.6	2. STLC	15
570-811-0.6	2. STLC	15
570-707-0	2. STLC	15
570-518-0	2. STLC	15
570-111-0.0	2. STLC	15
570-109-0.6	2. STLC	14
570-401-0.9	2. STLC	4.1
570-408-0	2. STLC	4
570-409-0.3	2. STLC	3
570-401-0.6		0
570-401-1.5		0
570-408-0.6		0
570-408-1.5		0

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571-837-0.3	2. STLC	27
571-520-0	2. STLC	26
571-516-0.3	2. STLC	26
571-420-0	2. STLC	26
571-102-0.6	2. STLC	26
571-517-1.5	2. STLC	25
571-513-0.6	2. STLC	25
571-623-0.6	2. STLC	25
571-112-0.3	2. STLC	25
571-326-0.6	2. STLC	24
571-619-0.3	2. STLC	24
571-619-0.9	2. STLC	24
571-528-0.3	2. STLC	24
571-706-0.6	2. STLC	24
571-112-0.6	2. STLC	24
571-327-0.6	2. STLC	23
571-817-0	2. STLC	23
571-425-0.6	2. STLC	22
571-118-0	2. STLC	22
571-829-0	2. STLC	22
571-828-0	2. STLC	22
571-122-0	2. STLC	21
571-101-1.5	2. STLC	21
571-530-0.3	2. STLC	21
571-406-0.6	2. STLC	20
571-517-0.6	2. STLC	20
571-835-0.3	2. STLC	20
571-501-0	2. STLC	20
571-518-0.9	2. STLC	19
571-510-0.3	2. STLC	19
571-814-0.9	2. STLC	19
571-522-0.6	2. STLC	19
571-622-1.5	2. STLC	19
571-812-0.6	2. STLC	19
571-701-0.6	2. STLC	19
571-704-0	2. STLC	19
571-711-0.6	2. STLC	19
571-212-0	2. STLC	18
571-839-0.6	2. STLC	18
571-610-1.5	2. STLC	18
571-709-0.3	2. STLC	18
571-311-0.6	2. STLC	17
571-620-0	2. STLC	17
571-109-0	2. STLC	17
571-704-0.3	2. STLC	17
571-207-1.5	2. STLC	16
571-203-0	2. STLC	16
571-616-0.3	2. STLC	16
571-317-0.3	2. STLC	16
571-629-0.3	2. STLC	16
571-416-0	2. STLC	15
571-419-0	2. STLC	15
571-526-0.3	2. STLC	15
571-619-0	2. STLC	15
571-606-0	2. STLC	15
571-115-0.6	2. STLC	14
571-202-0.9	2. STLC	11

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tblTEMP

WorkOrder	ClientSampID	TestNo	Analyte	PQL	DF	CollectionDate	AnalDate	PrepDate
057932	570-212-0.0	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057932	570-212-0.0	EPA 9045C	pH	0.1	1	7/15/2002	7/19/2002	7/19/2002
057932	570-212-0.0	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/2/2002	7/30/2002
057932	570-212-0.0	WET/ EPA 7420	Lead	0.4	2	7/15/2002	7/26/2002	7/24/2002
057932	570-212-0.3	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057932	570-212-0.6	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057932	570-213-0.0	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057932	570-213-0.0	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/2/2002	7/30/2002
057932	570-213-0.0	WET/ EPA 7420	Lead	0.2	1	7/15/2002	7/26/2002	7/24/2002
057932	570-214-0.0	EPA 1311/ 7420	Lead	0.2	1	7/15/2002	8/9/2002	8/8/2002
057932	570-214-0.0	EPA 6010B	Antimony	2.5	10	7/15/2002	8/10/2002	8/9/2002
057932	570-214-0.0	EPA 6010B	Arsenic	2.5	10	7/15/2002	8/10/2002	8/9/2002
057932	570-214-0.0	EPA 6010B	Barium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057932	570-214-0.0	EPA 6010B	Beryllium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057932	570-214-0.0	EPA 6010B	Cadmium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057932	570-214-0.0	EPA 6010B	Chromium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057932	570-214-0.0	EPA 6010B	Cobalt	1.5	10	7/15/2002	8/10/2002	8/9/2002
057932	570-214-0.0	EPA 6010B	Copper	1.5	10	7/15/2002	8/10/2002	8/9/2002
057932	570-214-0.0	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057932	570-214-0.0	EPA 6010B	Molybdenum	2.5	10	7/15/2002	8/10/2002	8/9/2002
057932	570-214-0.0	EPA 6010B	Nickel	1.5	10	7/15/2002	8/10/2002	8/9/2002
057932	570-214-0.0	EPA 6010B	Selenium	2.5	10	7/15/2002	8/10/2002	8/9/2002
057932	570-214-0.0	EPA 6010B	Silver	1.5	10	7/15/2002	8/10/2002	8/9/2002
057932	570-214-0.0	EPA 6010B	Thallium	2.5	10	7/15/2002	8/10/2002	8/9/2002
057932	570-214-0.0	EPA 6010B	Vanadium	1.5	10	7/15/2002	8/10/2002	8/9/2002
057932	570-214-0.0	EPA 6010B	Zinc	5	10	7/15/2002	8/10/2002	8/9/2002
057932	570-214-0.0	EPA 7471A	Mercury	0.1	1	7/15/2002	8/9/2002	8/7/2002
057932	570-214-0.3	EPA 1311/ 7420	Lead	0.2	1	7/15/2002	8/15/2002	8/14/2002
057932	570-214-0.3	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057932	570-214-0.3	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/2/2002	7/30/2002
057932	570-214-0.3	WET/ EPA 7420	Lead	0.8	4	7/15/2002	7/26/2002	7/24/2002
057932	570-215-0.0	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057932	570-215-0.0	WET/ EPA 7420	Lead	0.2	1	7/15/2002	7/26/2002	7/24/2002
057932	570-217-0.0	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057932	570-217-0.0	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/2/2002	7/30/2002

057932	570-217-0.0	WET/ EPA 7420	Lead	0.2	1	7/15/2002	7/26/2002	7/24/2002
057932	570-219-0.0	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057932	570-219-0.0	WET/ EPA 7420	Lead	0.2	1	7/15/2002	7/26/2002	7/24/2002
057932	570-219-0.3	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057932	570-219-0.3	WET/ EPA 7420	Lead	0.2	1	7/15/2002	7/26/2002	7/24/2002
057932	570-219-0.6	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057932	570-219-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/2/2002	7/30/2002
057932	570-219-0.6	WET/ EPA 7420	Lead	0.2	1	7/15/2002	7/26/2002	7/24/2002
057932	570-221-0.0	EPA 1311/ 7420	Lead	0.2	1	7/15/2002	8/15/2002	8/14/2002
057932	570-221-0.0	EPA 6010B	Lead	5	1	7/15/2002	7/18/2002	7/16/2002
057932	570-221-0.0	WET DI/ EPA 7420	Lead	0.2	1	7/15/2002	8/2/2002	7/30/2002
057932	570-221-0.0	WET/ EPA 7420	Lead	0.8	4	7/15/2002	7/26/2002	7/24/2002

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

August 15, 2002

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NINYO & MOORE
ORANGE COUNTY OFFICE

David Shaler
Ninyo & Moore
475 Goddard Suite 200
Irvine, CA 92618
TEL: (949) 753-7070
FAX: (949) 753-7071

ELAP No.: 1838
NELAP No.: 02107CA
Workorder No.: 057952

RE: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

Attention: David Shaler

Enclosed are the results for sample(s) received on July 16, 2002 by Advanced Technology Laboratories and tested for the parameters indicated in the enclosed chain of custody.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

J Kelley for

Eddie F. Rodriguez
Laboratory Director

This cover letter is an integral part of this analytical report.

Laboratory	Site	Consultant
Advanced Technology Laboratories	Caltrans/I-10 (605-57)/Lead Survey	Ninyo & Moore - David Shaler/Steve Reese
3275 Walnut Avenue, Signal Hill, CA 90807	TO 07-117070-PX	475 Goddard, Suite 200, Irvine, CA 92618
Tel. (562) 989-4045 Fax (562) 989-6348	Project # 203939001	Tel. (949) 753-7070 Fax (949) 753-7071

Special Instructions
See Project specifications. 5 Day TAT.

Relinquished by: (name/date/time) 7/16/02 4:10 — Received by: (name/date/time) 7-16-02 4:10p

Relinquished by: (name/date/time) 7/16-02 8:00p — Received by: (name/date/time) 7/16/02 8:12pm

Lab No	Sample I.D	Date	Time	Sample container P=plastic B=brass	Analyses: Total Lead EPA Method 6010	Analyses: pH EPA Method 9045
	EB- 9	7/16/02	4:10	P	X	
	570- 120 - 0		2:55	B	X	X
	570- 120 - 0.3		2:55		X	
	570- 120 - 0.6		2:55		X	
	570- 120 - 0.9		3:00		X	
	570- 120 - 1.5		3:00		X	
	570- 121 - 0		3:10		X	
	570- 121 - 0.3		3:10		X	
	570- 121 - 0.6		3:10		X	
	570- 121 - 0.9		3:10		X	
	570- 121 - 1.5		3:20		X	
	570- 122 - 0		2:35		X	X
	570- 122 - 0.3		2:35		X	
	570- 122 - 0.6		2:35		X	
	570- 122 - 0.9		2:40		X	
	570- 122 - 1.5		2:40		X	
	570- 216 - 0		9:15		X	
	570- 216 - 0.3		9:15		X	
	570- 218 - 0		9:30		X	
	570- 218 - 0.3		9:30		X	
	570- 218 - 0.6		9:30		X	
	570- 218 - 0.9		9:35		X	
	570- 218 - 1.5		9:40		X	X
	570- 220 - 0		9:50		X	
	570- 220 - 0.3		9:50		X	
	570- 220 - 0.6		9:50		X	
	570- 220 - 0.9		9:55		X	
	570- 220 - 1.5		10:00		X	
	570- 222 - 0		10:10		X	
	570- 222 - 0.3		10:10		X	
	570- 222 - 0.6		10:20		X	
	570- 222 - 0.9		10:20		X	
	570- 222 - 1.5		10:25		X	X
	570- 302 - 0		1:30		X	
	570- 302 - 0.3		1:30		X	
	570- 302 - 0.6		1:30		X	
	570- 302 - 0.9		1:30		X	
	570- 302 - 1.5		1:35		X	
	570- 303 - 0		1:10		X	
	570- 303 - 0.3		1:10		X	
	570- 303 - 0.6		1:10		X	
	570- 303 - 0.9		1:15		X	
	570- 303 - 1.5		1:20		X	
	570- 304 - 0		12:40		X	X
	570- 304 - 0.3		12:40		X	
	570- 304 - 0.6		12:50		X	
	570- 304 - 0.9		12:50		X	
	570- 304 - 1.5		12:55		X	
	570- 305 - 0		12:25		X	
	570- 305 - 0.3		12:25		X	
	570- 305 - 0.6		12:25		X	
	570- 305 - 0.9		12:30		X	
	570- 305 - 1.5		12:30		X	
	570- 306 - 0		12:05		X	
	570- 306 - 0.3		12:05		X	
	570- 306 - 0.6		12:10		X	X
	570- 306 - 0.9		12:10		X	
	570- 306 - 1.5		12:15		X	
	~~570-~~ EB-2	7/15/02	3:35 PM	P	X	
	~~570-~~				X	

Total # of samples: 59

Advanced Technology Laboratories

Date: *22-Jul-02*

CLIENT: Ninyo & Moore
Lab Order: 057952
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Lab ID: 057952-001A

Client Sample ID: EB-9
Collection Date: 7/16/2002 4:10:00 PM
Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
LEAD BY ICP	**(EPA 3010A)**			**EPA 6010B**		
RunID: ICP2_020718D	QC Batch: 9624					Analyst: **RQ**
Lead	0.010	0.0050		mg/L	1	7/18/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *22-Jul-02*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	EB-2
Lab Order:	057952		
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Collection Date:**	7/15/2002 3:35:00 PM
Lab ID:	057952-059A	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
LEAD BY ICP						
	(EPA 3010A)			**EPA 6010B**		
RunID: ICP2_020718D	QC Batch: 9624					Analyst: **RQ**
Lead	ND	0.0050		mg/L	1	7/18/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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DO - Surrogate Diluted Out
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H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: 7/22/2002

LEAD BY ICP
EPA 6010B

CLIENT: Ninyo & Moore
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Project No:
PO No:

Lab Order: 057952
Date Received: 7/16/2002 8:00:0
Matrix: Soil
Analyst: RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057952-002A	570-120-0	44	mg/Kg	9633	5	1	7/16/2002	7/20/2002
057952-003A	570-120-0.3	14	mg/Kg	9633	5	1	7/16/2002	7/20/2002
057952-004A	570-120-0.6	12	mg/Kg	9633	5	1	7/16/2002	7/20/2002
057952-005A	570-120-0.9	120	mg/Kg	9634	5	1	7/16/2002	7/21/2002
057952-006A	570-120-1.5	69	mg/Kg	9634	5	1	7/16/2002	7/21/2002
057952-007A	570-121-0	12	mg/Kg	9634	5	1	7/16/2002	7/21/2002
057952-008A	570-121-0.3	120	mg/Kg	9634	5	1	7/16/2002	7/21/2002
057952-009A	570-121-0.6	5.7	mg/Kg	9634	5	1	7/16/2002	7/21/2002
057952-010A	570-121-0.9	ND	mg/Kg	9634	5	1	7/16/2002	7/21/2002
057952-011A	570-121-1.5	ND	mg/Kg	9634	5	1	7/16/2002	7/21/2002
057952-012A	570-122-0	7.7	mg/Kg	9634	5	1	7/16/2002	7/21/2002

Qualifiers:
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DO - Surrogate Diluted Out
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Advanced Technology Laboratories

Date: 7/22/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057952
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/16/2002 8:00:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057952-013A	570-122-0.3	5.3	mg/Kg	9634	5	1	7/16/2002	7/21/2002
057952-014A	570-122-0.6	34	mg/Kg	9634	5	1	7/16/2002	7/21/2002
057952-015A	570-122-0.9	220	mg/Kg	9634	5	1	7/16/2002	7/21/2002
057952-016A	570-122-1.5	5.3	mg/Kg	9634	5	1	7/16/2002	7/21/2002
057952-017A	570-216-0	230	mg/Kg	9634	5	1	7/16/2002	7/21/2002
057952-018A	570-216-0.3	37	mg/Kg	9634	5	1	7/16/2002	7/21/2002
057952-019A	570-218-0	90	mg/Kg	9634	5	1	7/16/2002	7/21/2002
057952-020A	570-218-0.3	180	mg/Kg	9634	5	1	7/16/2002	7/21/2002
057952-021A	570-218-0.6	9.8	mg/Kg	9634	5	1	7/16/2002	7/21/2002
057952-022A	570-218-0.9	ND	mg/Kg	9634	5	1	7/16/2002	7/21/2002
057952-023A	570-218-1.5	5.7	mg/Kg	9634	5	1	7/16/2002	7/21/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
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H - Sample exceeded analytical holding time
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Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: 7/22/2002

LEAD BY ICP
EPA 6010B

CLIENT: Ninyo & Moore
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Project No:
PO No:

Lab Order: 057952
Date Received: 7/16/2002 8:00:0
Matrix: Soil
Analyst: RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057952-024A	570-220-0	43	mg/Kg	9634	5	1	7/16/2002	7/21/2002
057952-025A	570-220-0.3	17	mg/Kg	9635	5	1	7/16/2002	7/22/2002
057952-026A	570-220-0.6	6.7	mg/Kg	9635	5	1	7/16/2002	7/22/2002
057952-027A	570-220-0.9	ND	mg/Kg	9635	5	1	7/16/2002	7/22/2002
057952-028A	570-220-1.5	7.2	mg/Kg	9635	5	1	7/16/2002	7/22/2002
057952-029A	570-222-0	25	mg/Kg	9635	5	1	7/16/2002	7/22/2002
057952-030A	570-222-0.3	8.4	mg/Kg	9635	5	1	7/16/2002	7/22/2002
057952-031A	570-222-0.6	27	mg/Kg	9635	5	1	7/16/2002	7/22/2002
057952-032A	570-222-0.9	30	mg/Kg	9635	5	1	7/16/2002	7/22/2002
057952-033A	570-222-1.5	32	mg/Kg	9635	5	1	7/16/2002	7/22/2002
057952-034A	570-302-0	5.7	mg/Kg	9635	5	1	7/16/2002	7/22/2002

Qualifiers:
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H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: 7/22/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057952
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/16/2002 8:00:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057952-035A	570-302-0.3	48	mg/Kg	9635	5	1	7/16/2002	7/22/2002
057952-036A	570-302-0.6	7.9	mg/Kg	9635	5	1	7/16/2002	7/22/2002
057952-037A	570-302-0.9	34	mg/Kg	9635	5	1	7/16/2002	7/22/2002
057952-038A	570-302-1.5	ND	mg/Kg	9635	5	1	7/16/2002	7/22/2002
057952-039A	570-303-0	66	mg/Kg	9635	5	1	7/16/2002	7/22/2002
057952-040A	570-303-0.3	120	mg/Kg	9635	5	1	7/16/2002	7/22/2002
057952-041A	570-303-0.6	100	mg/Kg	9635	5	1	7/16/2002	7/22/2002
057952-042A	570-303-0.9	25	mg/Kg	9635	5	1	7/16/2002	7/22/2002
057952-043A	570-303-1.5	ND	mg/Kg	9635	5	1	7/16/2002	7/22/2002
057952-044A	570-304-0	930	mg/Kg	9635	5	1	7/16/2002	7/22/2002
057952-045A	570-304-0.3	160	mg/Kg	9636	5	1	7/16/2002	7/21/2002

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Advanced Technology Laboratories

Date: 7/22/2002

LEAD BY ICP
EPA 6010B

CLIENT: Ninyo & Moore
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Project No:
PO No:

Lab Order: 057952
Date Received: 7/16/2002 8:00:0
Matrix: Soil
Analyst: RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057952-046A	570-304-0.6	130	mg/Kg	9636	5	1	7/16/2002	7/21/2002
057952-047A	570-304-0.9	ND	mg/Kg	9636	5	1	7/16/2002	7/21/2002
057952-048A	570-304-1.5	160	mg/Kg	9636	5	1	7/16/2002	7/21/2002
057952-049A	570-305-0	590	mg/Kg	9636	5	1	7/16/2002	7/21/2002
057952-050A	570-305-0.3	9.3	mg/Kg	9636	5	1	7/16/2002	7/21/2002
057952-051A	570-305-0.6	ND	mg/Kg	9636	5	1	7/16/2002	7/21/2002
057952-052A	570-305-0.9	ND	mg/Kg	9636	5	1	7/16/2002	7/21/2002
057952-053A	570-305-1.5	5.5	mg/Kg	9636	5	1	7/16/2002	7/21/2002
057952-054A	570-306-0	6.2	mg/Kg	9636	5	1	7/16/2002	7/21/2002
057952-055A	570-306-0.3	19	mg/Kg	9636	5	1	7/16/2002	7/21/2002
057952-056A	570-306-0.6	49	mg/Kg	9636	5	1	7/16/2002	7/21/2002

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S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: 7/22/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057952
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/16/2002 8:00:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057952-057A	570-306-0.9	9.3	mg/Kg	9636	5	1	7/16/2002	7/21/2002
057952-058A	570-306-1.5	8.1	mg/Kg	9636	5	1	7/16/2002	7/21/2002

Qualifiers:

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DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: 7/22/2002

pH
EPA 9045C

CLIENT:	Ninyo & Moore	**Lab Order:**	057952
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/16/2002 8:00:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057952-002A	570-120-0	6.98	pH Units	R19607	0.1	1	7/16/2002	7/21/2002
057952-012A	570-122-0	8.30	pH Units	R19607	0.1	1	7/16/2002	7/21/2002
057952-023A	570-218-1.5	8.12	pH Units	R19607	0.1	1	7/16/2002	7/21/2002
057952-033A	570-222-1.5	7.93	pH Units	R19607	0.1	1	7/16/2002	7/21/2002
057952-044A	570-304-0	7.32	pH Units	R19607	0.1	1	7/16/2002	7/21/2002
057952-056A	570-306-0.6	6.67	pH Units	R19607	0.1	1	7/16/2002	7/21/2002

Qualifiers:

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Advanced Technology Laboratories

Date: 7/29/2002

LEAD BY ATOMIC ABSORPTION
WET/ EPA 7420

CLIENT:	Ninyo & Moore	**Lab Order:**	057952
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/16/2002 8:00:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057952-005A	570-120-0.9	18	mg/L	9796	0.4	2	7/16/2002	7/26/2002
057952-006A	570-120-1.5	1.3	mg/L	9796	0.2	1	7/16/2002	7/26/2002
057952-008A	570-121-0.3	6.9	mg/L	9796	0.2	1	7/16/2002	7/26/2002
057952-015A	570-122-0.9	20	mg/L	9796	0.4	2	7/16/2002	7/26/2002
057952-017A	570-216-0	17	mg/L	9796	0.4	2	7/16/2002	7/26/2002
057952-019A	570-218-0	6.5	mg/L	9796	0.2	1	7/16/2002	7/26/2002
057952-020A	570-218-0.3	3.0	mg/L	9796	0.2	1	7/16/2002	7/26/2002
057952-039A	570-303-0	58	mg/L	9796	2	10	7/16/2002	7/26/2002
057952-040A	570-303-0.3	14	mg/L	9796	0.4	2	7/16/2002	7/26/2002
057952-041A	570-303-0.6	1.1	mg/L	9796	0.2	1	7/16/2002	7/26/2002
057952-044A	570-304-0	25	mg/L	9796	0.8	4	7/16/2002	7/26/2002

Qualifiers:

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Advanced Technology Laboratories

Date: 7/29/2002

LEAD BY ATOMIC ABSORPTION
WET/ EPA 7420

CLIENT: Ninyo & Moore
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Project No:
PO No:

Lab Order: 057952
Date Received: 7/16/2002 8:00:0
Matrix: Soil
Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057952-045A	570-304-0.3	17	mg/L	9796	0.4	2	7/16/2002	7/26/2002
057952-046A	570-304-0.6	1.4	mg/L	9796	0.2	1	7/16/2002	7/26/2002
057952-048A	570-304-1.5	ND	mg/L	9797	0.2	1	7/16/2002	7/26/2002
057952-049A	570-305-0	79	mg/L	9797	2	10	7/16/2002	7/26/2002

Qualifiers:
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Advanced Technology Laboratories

Date: 8/5/2002

LEAD BY ATOMIC ABSORPTION
WET DI/ EPA 7420

CLIENT:	Ninyo & Moore	**Lab Order:**	057952
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/16/2002 8:00:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057952-005A	570-120-0.9	ND	mg/L	9956	0.2	1	7/16/2002	8/2/2002
057952-008A	570-121-0.3	ND	mg/L	9956	0.2	1	7/16/2002	8/2/2002
057952-015A	570-122-0.9	ND	mg/L	9956	0.2	1	7/16/2002	8/2/2002
057952-017A	570-216-0	ND	mg/L	9956	0.2	1	7/16/2002	8/2/2002
057952-019A	570-218-0	ND	mg/L	9957	0.2	1	7/16/2002	8/2/2002
057952-039A	570-303-0	ND	mg/L	9957	0.2	1	7/16/2002	8/2/2002
057952-040A	570-303-0.3	ND	mg/L	9957	0.2	1	7/16/2002	8/2/2002
057952-044A	570-304-0	ND	mg/L	9957	0.2	1	7/16/2002	8/2/2002
057952-045A	570-304-0.3	ND	mg/L	9957	0.2	1	7/16/2002	8/2/2002
057952-049A	570-305-0	ND	mg/L	9957	0.2	1	7/16/2002	8/2/2002

Qualifiers:

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Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: *13-Aug-02*

CLIENT: Ninyo & Moore
Lab Order: 057952
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Lab ID: 057952-048A

Client Sample ID: 570-304-1.5
Collection Date: 7/16/2002 12:55:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS	**(EPA 3050A)**			**EPA 6010B**		
RunID: ICP2_020810D	QC Batch: 10211					Analyst: **RQ**
Antimony	ND	2.5		mg/Kg	10	8/10/2002
Arsenic	15	2.5		mg/Kg	10	8/10/2002
Barium	660	1.5		mg/Kg	10	8/10/2002
Beryllium	ND	1.5		mg/Kg	10	8/10/2002
Cadmium	ND	1.5		mg/Kg	10	8/10/2002
Chromium	20	1.5		mg/Kg	10	8/10/2002
Cobalt	15	1.5		mg/Kg	10	8/10/2002
Copper	45	1.5		mg/Kg	10	8/10/2002
Molybdenum	ND	2.5		mg/Kg	10	8/10/2002
Nickel	15	1.5		mg/Kg	10	8/10/2002
Selenium	ND	2.5		mg/Kg	10	8/10/2002
Silver	ND	1.5		mg/Kg	10	8/10/2002
Thallium	ND	2.5		mg/Kg	10	8/10/2002
Vanadium	55	1.5		mg/Kg	10	8/10/2002
Zinc	760	5.0		mg/Kg	10	8/10/2002
MERCURY BY COLD VAPOR TECHNIQUE	**(EPA 7471)**			**EPA 7471A**		
RunID: AA1_020809C	QC Batch: 10166					Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1	8/9/2002

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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3275 Walnut Avenue, Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: 8/15/2002

LEAD BY ATOMIC ABSORPTION
EPA 1311/ 7420

CLIENT:	Ninyo & Moore	**Lab Order:**	057952
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/16/2002 8:00:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057952-005A	570-120-0.9	ND	mg/L	10349	0.2	1	7/16/2002	8/14/2002
057952-015A	570-122-0.9	ND	mg/L	10349	0.2	1	7/16/2002	8/14/2002
057952-017A	570-216-0	0.64	mg/L	10349	0.2	1	7/16/2002	8/14/2002
057952-039A	570-303-0	ND	mg/L	10349	0.2	1	7/16/2002	8/14/2002
057952-044A	570-304-0	ND	mg/L	10349	0.2	1	7/16/2002	8/14/2002
057952-045A	570-304-0.3	ND	mg/L	10349	0.2	1	7/16/2002	8/14/2002
057952-049A	570-305-0	1.2	mg/L	10352	0.2	1	7/16/2002	8/14/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: *15-Aug-02*

CLIENT: Ninyo & Moore
Work Order: 057952
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10166

Sample ID: **MB-10166** SampType: **mblk** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809C**
Client ID: **ZZZZZ** Batch ID: **10166** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316736**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: **LCS-10166** SampType: **lcs** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809C**
Client ID: **ZZZZZ** Batch ID: **10166** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316735**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.239	0.10	2.08	0	108	80	120	0	0		

Sample ID: **057974-014AMS** SampType: **MS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809C**
Client ID: **ZZZZZ** Batch ID: **10166** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316733**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.9807	0.10	0.83	0.03978	113	62	146	0	0		

Sample ID: **057974-014AMSD** SampType: **MSD** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809C**
Client ID: **ZZZZZ** Batch ID: **10166** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316734**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.183	0.10	0.83	0.03978	138	62	146	0.9807	18.7	33	

Sample ID: **057974-014ADUP** SampType: **DUP** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809C**
Client ID: **ZZZZZ** Batch ID: **10166** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316732**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.03631	0.10	0	0	0	0	0	0.03978	0	30	J

Qualifiers:
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Calculations are based on raw values
DO - Surrogate diluted out
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CLIENT: Ninyo & Moore
Work Order: 057952
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10211

Sample ID: **MB-10211** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP2_020810D**
Client ID: **ZZZZZ** Batch ID: **10211** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316604**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.011	0.25									J
Arsenic	ND	0.25									
Barium	0.002	0.15									J
Beryllium	0.011	0.15									J
Cadmium	0.0245	0.15									J
Chromium	ND	0.15									
Cobalt	0.02	0.15									J
Copper	ND	0.15									
Molybdenum	ND	0.25									
Nickel	ND	0.15									
Selenium	ND	0.25									
Silver	0.036	0.15									J
Thallium	0.1145	0.25									J
Vanadium	ND	0.15									
Zinc	0.2355	0.50									J

Sample ID: **LCS-10211** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP2_020810D**
Client ID: **ZZZZZ** Batch ID: **10211** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316590**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	47	0.25	50	0	94	80	120	0	0		
Arsenic	47.5	0.25	50	0	95	80	120	0	0		
Barium	52	0.15	50	0	104	80	120	0	0		
Beryllium	47	0.15	50	0	94	80	120	0	0		
Cadmium	46.5	0.15	50	0	93	80	120	0	0		
Chromium	49.5	0.15	50	0	99	80	120	0	0		
Cobalt	48	0.15	50	0	96	80	120	0	0		
Copper	49.5	0.15	50	0	99	80	120	0	0		
Molybdenum	48.5	0.25	50	0	97	80	120	0	0		
Nickel	46.5	0.15	50	0	93	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; S - Spike/Surrogate outside limits due to matrix interference; B - Analyte detected in the associated Method Blank; **Calculations are based on raw values**; DO - Surrogate diluted out; H - Sample exceeded holding time

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ANALYTICAL QC SUMMARY REPORT

BatchID: 10211

Sample ID: **LCS-10211** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP2_020810D**
Client ID: **ZZZZZ** Batch ID: **10211** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316590**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	43.5	0.25	50	0	87	80	120	0	0		
Silver	49	0.15	50	0	98	80	120	0	0		
Thallium	49.5	0.25	50	0	99	80	120	0	0		
Vanadium	48	0.15	50	0	96	80	120	0	0		
Zinc	48.5	0.50	50	0	97	80	120	0	0		

Sample ID: **057974-004AMS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP2_020810D**
Client ID: **ZZZZZ** Batch ID: **10211** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316602**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	65	2.5	125	1.445	50.8	32	115	0	0		
Arsenic	130	2.5	125	10	96	59	111	0	0		
Barium	255	1.5	125	145	88	34	151	0	0		
Beryllium	120	1.5	125	0	96	56	112	0	0		
Cadmium	115	1.5	125	0	92	52	120	0	0		
Chromium	145	1.5	125	20	100	56	118	0	0		
Cobalt	130	1.5	125	10	96	58	117	0	0		
Copper	190	1.5	125	55	108	58	134	0	0		
Molybdenum	120	2.5	125	2.09	94.3	56	115	0	0		
Nickel	135	1.5	125	20	92	52	120	0	0		
Selenium	120	2.5	125	0	96	46	108	0	0		
Silver	120	1.5	125	0.105	95.9	74	117	0	0		
Thallium	125	2.5	125	1.965	98.4	62	117	0	0		
Vanadium	160	1.5	125	45	92	55	122	0	0		
Zinc	405	5.0	125	365	32	43	134	0	0		S

Sample ID: **057974-004AMSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP2_020810D**
Client ID: **ZZZZZ** Batch ID: **10211** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316603**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
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Calculations are based on raw values
DO - Surrogate diluted out
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ANALYTICAL QC SUMMARY REPORT

BatchID: 10211

Sample ID: **057974-004AMSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP2_020810D**
Client ID: **ZZZZZ** Batch ID: **10211** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316603**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	70	2.5	125	1.445	54.8	32	115	65	7.41	20	
Arsenic	125	2.5	125	10	92	59	111	130	3.92	20	
Barium	245	1.5	125	145	80	34	151	255	4.00	20	
Beryllium	115	1.5	125	0	92	56	112	120	4.26	20	
Cadmium	110	1.5	125	0	88	52	120	115	4.44	20	
Chromium	135	1.5	125	20	92	56	118	145	7.14	20	
Cobalt	125	1.5	125	10	92	58	117	130	3.92	20	
Copper	170	1.5	125	55	92	58	134	190	11.1	20	
Molybdenum	115	2.5	125	2.09	90.3	56	115	120	4.26	20	
Nickel	135	1.5	125	20	92	52	120	135	0	20	
Selenium	115	2.5	125	0	92	46	108	120	4.26	20	
Silver	115	1.5	125	0.105	91.9	74	117	120	4.26	20	
Thallium	125	2.5	125	1.965	98.4	62	117	125	0	20	
Vanadium	155	1.5	125	45	88	55	122	160	3.17	20	
Zinc	380	5.0	125	365	12	43	134	405	6.37	20	S

Sample ID: **057974-004ADUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP2_020810D**
Client ID: **ZZZZZ** Batch ID: **10211** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316601**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.765	2.5	0	0	0	0	0	1.445	0	30	J
Arsenic	10	2.5	0	0	0	0	0	10	0	30	
Barium	140	1.5	0	0	0	0	0	145	3.51	30	
Beryllium	ND	1.5	0	0	0	0	0	0	0	30	
Cadmium	ND	1.5	0	0	0	0	0	0	0	30	
Chromium	20	1.5	0	0	0	0	0	20	0	30	
Cobalt	10	1.5	0	0	0	0	0	10	0	30	
Copper	55	1.5	0	0	0	0	0	55	0	30	
Molybdenum	2.46	2.5	0	0	0	0	0	2.09	0	30	J
Nickel	20	1.5	0	0	0	0	0	20	0	30	

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; S - Spike/Surrogate outside limits due to matrix interference; B - Analyte detected in the associated Method Blank; DO - Surrogate diluted out; H - Sample exceeded holding time

Calculations are based on raw values

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ANALYTICAL QC SUMMARY REPORT

BatchID: 10211

Sample ID: **057974-004ADUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP2_020810D**
Client ID: **ZZZZZ** Batch ID: **10211** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316601**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	ND	2.5	0	0	0	0	0	0	0	30	
Silver	0.24	1.5	0	0	0	0	0	0.105	0	30	J
Thallium	2.23	2.5	0	0	0	0	0	1.965	0	30	J
Vanadium	45	1.5	0	0	0	0	0	45	0	30	
Zinc	295	5.0	0	0	0	0	0	365	21.2	30	

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 10349

Sample ID: **MB-10349** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814Q**
Client ID: **ZZZZZ** Batch ID: **10349** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **318936**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-10266-TCLP** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814Q**
Client ID: **ZZZZZ** Batch ID: **10349** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **318937**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-10349** SampType: **LCS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814Q**
Client ID: **ZZZZZ** Batch ID: **10349** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **318951**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.9993	0.20	1	0	99.9	80	120	0	0		

Sample ID: **057952-045AMS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814Q**
Client ID: **570-304-0.3** Batch ID: **10349** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **318949**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.47	0.20	2.5	0.1749	91.8	80	120	0	0		

Sample ID: **057952-045ADUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814Q**
Client ID: **570-304-0.3** Batch ID: **10349** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **318948**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.1723	0.20	0	0	0	0	0	0.1749	0	30	J

Qualifiers:
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DO - Surrogate diluted out
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ANALYTICAL QC SUMMARY REPORT

BatchID: 10352

Sample ID: **MB-10352** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814R**
Client ID: **ZZZZZ** Batch ID: **10352** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **318952**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-10267-TCLP** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814R**
Client ID: **ZZZZZ** Batch ID: **10352** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **318953**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-10352** SampType: **LCS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814R**
Client ID: **ZZZZZ** Batch ID: **10352** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **318967**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.127	0.20	1	0	113	80	120	0	0		

Sample ID: **057952-049AMS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814R**
Client ID: **570-305-0** Batch ID: **10352** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **318965**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.954	0.20	2.5	1.227	109	80	120	0	0		

Sample ID: **057952-049ADUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814R**
Client ID: **570-305-0** Batch ID: **10352** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **318964**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.068	0.20	0	0	0	0	0	1.227	13.9	30	

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9624

Sample ID: **MB-9624** SampType: **MBLK** TestCode: **6010_W** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718F**
Client ID: **ZZZZZ** Batch ID: **9624** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **301310**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0	0.0050									
Arsenic	0	0.0050									
Barium	0	0.0030									
Beryllium	0	0.0030									
Cadmium	0	0.0030									
Chromium	0	0.0030									
Cobalt	0	0.0030									
Copper	0	0.0030									
Lead	0	0.0050									
Molybdenum	0	0.0050									
Nickel	0	0.0030									
Selenium	0	0.0050									
Silver	0	0.0030									
Thallium	0	0.0050									
Vanadium	0	0.0030									
Zinc	0	0.010									

Sample ID: **LCS-9624** SampType: **LCS** TestCode: **6010_W** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718F**
Client ID: **ZZZZZ** Batch ID: **9624** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **301311**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	1.07	0.0050	1	0	107	80	120	0	0		
Arsenic	1.1	0.0050	1	0	110	80	120	0	0		
Barium	1.07	0.0030	1	0	107	80	120	0	0		
Beryllium	1.08	0.0030	1	0	108	80	120	0	0		
Cadmium	1.03	0.0030	1	0	103	80	120	0	0		
Chromium	1.06	0.0030	1	0	106	80	120	0	0		
Cobalt	1.03	0.0030	1	0	103	80	120	0	0		
Copper	1.04	0.0030	1	0	104	80	120	0	0		
Lead	1.03	0.0050	1	0	103	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9624

Sample ID: **LCS-9624** SampType: **LCS** TestCode: **6010_W** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718F**
Client ID: **ZZZZZ** Batch ID: **9624** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **301311**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	1.08	0.0050	1	0	108	80	120	0	0		
Nickel	1.01	0.0030	1	0	101	80	120	0	0		
Selenium	1.06	0.0050	1	0	106	80	120	0	0		
Silver	1.05	0.0030	1	0	105	80	120	0	0		
Thallium	1.07	0.0050	1	0	107	80	120	0	0		
Vanadium	1.1	0.0030	1	0	110	80	120	0	0		
Zinc	1.03	0.010	1	0	103	80	120	0	0		

Sample ID: **057952-059AMS** SampType: **MS** TestCode: **6010_W** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718F**
Client ID: **EB-2** Batch ID: **9624** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **301314**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	2.57	0.0050	2.5	0	103	69	116	0	0		
Arsenic	2.55	0.0050	2.5	0	102	67	114	0	0		
Barium	2.58	0.0030	2.5	0.00284	103	63	125	0	0		
Beryllium	2.6	0.0030	2.5	0	104	60	117	0	0		
Cadmium	2.47	0.0030	2.5	0	98.8	63	123	0	0		
Chromium	2.58	0.0030	2.5	0	103	68	118	0	0		
Cobalt	2.5	0.0030	2.5	0	100	68	118	0	0		
Copper	2.63	0.0030	2.5	0	105	72	123	0	0		
Lead	2.43	0.0050	2.5	0	97.2	66	118	0	0		
Molybdenum	2.59	0.0050	2.5	0	104	65	111	0	0		
Nickel	2.5	0.0030	2.5	0	100	64	121	0	0		
Selenium	2.56	0.0050	2.5	0	102	62	109	0	0		
Silver	2.55	0.0030	2.5	0	102	71	137	0	0		
Thallium	2.53	0.0050	2.5	0	101	67	122	0	0		
Vanadium	2.61	0.0030	2.5	0.00103	104	69	118	0	0		
Zinc	2.48	0.010	2.5	0.00746	98.9	65	112	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike/Surrogate outside limits due to matrix interference; DO - Surrogate diluted out
J - Analyte detected below quantitation limits; B - Analyte detected in the associated Method Blank; H - Sample exceeded holding time
R - RPD outside accepted recovery limits; **Calculations are based on raw values**

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CLIENT: Ninyo & Moore
Work Order: 057952
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 9624

Sample ID: **057952-059AMSD** SampType: **MSD** TestCode: **6010_W** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718F**
Client ID: **EB-2** Batch ID: **9624** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **301315**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	2.36	0.0050	2.5	0	94.4	69	116	2.57	8.52	20	
Arsenic	2.35	0.0050	2.5	0	94	67	114	2.55	8.16	20	
Barium	2.36	0.0030	2.5	0.00284	94.3	63	125	2.58	8.91	20	
Beryllium	2.38	0.0030	2.5	0	95.2	60	117	2.6	8.84	20	
Cadmium	2.26	0.0030	2.5	0	90.4	63	123	2.47	8.88	20	
Chromium	2.35	0.0030	2.5	0	94	68	118	2.58	9.33	20	
Cobalt	2.29	0.0030	2.5	0	91.6	68	118	2.5	8.77	20	
Copper	2.4	0.0030	2.5	0	96	72	123	2.63	9.15	20	
Lead	2.22	0.0050	2.5	0	88.8	66	118	2.43	9.03	20	
Molybdenum	2.37	0.0050	2.5	0	94.8	65	111	2.59	8.87	20	
Nickel	2.27	0.0030	2.5	0	90.8	64	121	2.5	9.64	20	
Selenium	2.36	0.0050	2.5	0	94.4	62	109	2.56	8.13	20	
Silver	2.33	0.0030	2.5	0	93.2	71	137	2.55	9.02	20	
Thallium	2.34	0.0050	2.5	0	93.6	67	122	2.53	7.80	20	
Vanadium	2.39	0.0030	2.5	0.00103	95.6	69	118	2.61	8.80	20	
Zinc	2.27	0.010	2.5	0.00746	90.5	65	112	2.48	8.84	20	

Sample ID: **MB-9624** SampType: **MBLK** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718D**
Client ID: **ZZZZZ** Batch ID: **9624** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **301266**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.0050									

Sample ID: **LCS-9624** SampType: **LCS** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718D**
Client ID: **ZZZZZ** Batch ID: **9624** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **301267**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.03	0.0050	1	0	103	80	120	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

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ANALYTICAL QC SUMMARY REPORT

BatchID: 9624

Sample ID: **057952-059AMS** SampType: **MS** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718D**
Client ID: **EB-2** Batch ID: **9624** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **301275**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.43	0.0050	2.5	0	97.2	66	118	0	0		

Sample ID: **057952-059ADUP** SampType: **DUP** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718D**
Client ID: **EB-2** Batch ID: **9624** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **301274**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.0050	0	0	0	0	0	0	0	30	

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9633

Sample ID: **MB-9633A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719M**
Client ID: **ZZZZZ** Batch ID: **9633** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/20/2002** SeqNo: **302349**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **MB-9633B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719M**
Client ID: **ZZZZZ** Batch ID: **9633** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/20/2002** SeqNo: **302350**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-9633** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719M**
Client ID: **ZZZZZ** Batch ID: **9633** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/20/2002** SeqNo: **302348**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	223.4	5.0	250	0	89.4	80	120	0	0		

Sample ID: **057951-023AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719M**
Client ID: **ZZZZZ** Batch ID: **9633** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/20/2002** SeqNo: **302333**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	349.2	5.0	250	172	70.9	47	128	0	0		

Sample ID: **057952-004AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719M**
Client ID: **570-120-0.6** Batch ID: **9633** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/20/2002** SeqNo: **302345**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	203.3	5.0	250	12.11	76.5	47	128	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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Calculations are based on raw values
DO - Surrogate diluted out
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9633

Sample ID: **057951-023ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719M**
Client ID: **ZZZZZ** Batch ID: **9633** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/20/2002** SeqNo: **302332**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	139.5	5.0	0	0	0	0	0	172	20.9	30	

Sample ID: **057952-004ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719M**
Client ID: **570-120-0.6** Batch ID: **9633** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/20/2002** SeqNo: **302344**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	12.56	5.0	0	0	0	0	0	12.11	3.64	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9634

Sample ID: MB-9634A | SampType: MBLK | TestCode: 6010_SPB | Units: mg/Kg | Prep Date: 7/18/2002 | Run ID: ICP5_020721A
Client ID: ZZZZZ | Batch ID: 9634 | TestNo: EPA 6010B | (EPA 3050M) | Analysis Date: 7/21/2002 | SeqNo: 302377

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: MB-9634B | SampType: MBLK | TestCode: 6010_SPB | Units: mg/Kg | Prep Date: 7/18/2002 | Run ID: ICP5_020721A
Client ID: ZZZZZ | Batch ID: 9634 | TestNo: EPA 6010B | (EPA 3050M) | Analysis Date: 7/21/2002 | SeqNo: 302378

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: LCS-9634 | SampType: LCS | TestCode: 6010_SPB | Units: mg/Kg | Prep Date: 7/18/2002 | Run ID: ICP5_020721A
Client ID: ZZZZZ | Batch ID: 9634 | TestNo: EPA 6010B | (EPA 3050M) | Analysis Date: 7/21/2002 | SeqNo: 302376

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	220.5	5.0	250	0	88.2	80	120	0	0		

Sample ID: 057952-014AMS | SampType: MS | TestCode: 6010_SPB | Units: mg/Kg | Prep Date: 7/18/2002 | Run ID: ICP5_020721A
Client ID: 570-122-0.6 | Batch ID: 9634 | TestNo: EPA 6010B | (EPA 3050M) | Analysis Date: 7/21/2002 | SeqNo: 302362

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	229.4	5.0	250	34.36	78	47	128	0	0		

Sample ID: 057952-024AMS | SampType: MS | TestCode: 6010_SPB | Units: mg/Kg | Prep Date: 7/18/2002 | Run ID: ICP5_020721A
Client ID: 570-220-0 | Batch ID: 9634 | TestNo: EPA 6010B | (EPA 3050M) | Analysis Date: 7/21/2002 | SeqNo: 302374

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	156.9	5.0	250	42.86	45.6	47	128	0	0		S

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9634

Sample ID: **057952-014ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020721A**
Client ID: **570-122-0.6** Batch ID: **9634** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/21/2002** SeqNo: **302361**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	36.71	5.0	0	0	0	0	0	34.36	6.59	30	

Sample ID: **057952-024ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020721A**
Client ID: **570-220-0** Batch ID: **9634** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/21/2002** SeqNo: **302373**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	52.9	5.0	0	0	0	0	0	42.86	21.0	30	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9635

Sample ID: MB-9635A | SampType: MBLK | TestCode: 6010_SPB | Units: mg/Kg | Prep Date: 7/18/2002 | Run ID: ICP5_020722A
Client ID: ZZZZZ | Batch ID: 9635 | TestNo: EPA 6010B | (EPA 3050M) | Analysis Date: 7/22/2002 | SeqNo: 302674

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: MB-9635B | SampType: MBLK | TestCode: 6010_SPB | Units: mg/Kg | Prep Date: 7/18/2002 | Run ID: ICP5_020722A
Client ID: ZZZZZ | Batch ID: 9635 | TestNo: EPA 6010B | (EPA 3050M) | Analysis Date: 7/22/2002 | SeqNo: 302675

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: LCS-9635 | SampType: LCS | TestCode: 6010_SPB | Units: mg/Kg | Prep Date: 7/18/2002 | Run ID: ICP5_020722A
Client ID: ZZZZZ | Batch ID: 9635 | TestNo: EPA 6010B | (EPA 3050M) | Analysis Date: 7/22/2002 | SeqNo: 302673

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	220.5	5.0	250	0	88.2	80	120	0	0		

Sample ID: 057952-034AMS | SampType: MS | TestCode: 6010_SPB | Units: mg/Kg | Prep Date: 7/18/2002 | Run ID: ICP5_020722A
Client ID: 570-302-0 | Batch ID: 9635 | TestNo: EPA 6010B | (EPA 3050M) | Analysis Date: 7/22/2002 | SeqNo: 302658

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	198.6	5.0	250	5.68	77.2	47	128	0	0		

Sample ID: 057952-044AMS | SampType: MS | TestCode: 6010_SPB | Units: mg/Kg | Prep Date: 7/18/2002 | Run ID: ICP5_020722A
Client ID: 570-304-0 | Batch ID: 9635 | TestNo: EPA 6010B | (EPA 3050M) | Analysis Date: 7/22/2002 | SeqNo: 302670

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	867.1	5.0	250	927.2	-24	47	128	0	0		S

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
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DO - Surrogate diluted out
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9635

Sample ID: **057952-044AMSD** SampType: **MSD** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020722A**
Client ID: **570-304-0** Batch ID: **9635** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/22/2002** SeqNo: **302671**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	810.7	5.0	250	927.2	-46.6	47	128	867.1	6.72	20	S

Sample ID: **057952-034ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020722A**
Client ID: **570-302-0** Batch ID: **9635** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/22/2002** SeqNo: **302657**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	8.588	5.0	0	0	0	0	0	5.68	40.8	30	R

Sample ID: **057952-044ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020722A**
Client ID: **570-304-0** Batch ID: **9635** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/22/2002** SeqNo: **302669**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	909.5	5.0	0	0	0	0	0	927.2	1.92	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

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Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 9636

Sample ID: **MB-9636A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020721C**
Client ID: **ZZZZZ** Batch ID: **9636** TestNo: **EPA 6010B (EPA 3050M)** Analysis Date: **7/21/2002** SeqNo: **302442**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **MB-9636B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020721C**
Client ID: **ZZZZZ** Batch ID: **9636** TestNo: **EPA 6010B (EPA 3050M)** Analysis Date: **7/21/2002** SeqNo: **302443**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-9636** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020721C**
Client ID: **ZZZZZ** Batch ID: **9636** TestNo: **EPA 6010B (EPA 3050M)** Analysis Date: **7/21/2002** SeqNo: **302441**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	209.4	5.0	250	0	83.8	80	120	0	0		

Sample ID: **057952-054AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020721C**
Client ID: **570-306-0** Batch ID: **9636** TestNo: **EPA 6010B (EPA 3050M)** Analysis Date: **7/21/2002** SeqNo: **302433**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	238.9	5.0	250	6.183	93.1	47	128	0	0		

Sample ID: **057952-058AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020721C**
Client ID: **570-306-1.5** Batch ID: **9636** TestNo: **EPA 6010B (EPA 3050M)** Analysis Date: **7/21/2002** SeqNo: **302439**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	177.7	5.0	250	8.14	67.8	47	128	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

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CLIENT: Ninyo & Moore
Work Order: 057952
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 9636

Sample ID: **057952-054ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020721C**
Client ID: **570-306-0** Batch ID: **9636** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/21/2002** SeqNo: **302432**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	48.73	5.0	0	0	0	0	0	6.183	155	30	R

Sample ID: **057952-058ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020721C**
Client ID: **570-306-1.5** Batch ID: **9636** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/21/2002** SeqNo: **302438**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	6.515	5.0	0	0	0	0	0	8.14	22.2	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9796

Sample ID: **MB-9796** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020726I**
Client ID: **ZZZZZ** Batch ID: **9796** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307406**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9796A** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/23/2002** Run ID: **AA2_020726I**
Client ID: **ZZZZZ** Batch ID: **9796** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307407**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9796B** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/23/2002** Run ID: **AA2_020726I**
Client ID: **ZZZZZ** Batch ID: **9796** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307421**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.07036	0.20									

Sample ID: **LCS-9796** SampType: **LCS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020726I**
Client ID: **ZZZZZ** Batch ID: **9796** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307435**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.131	0.20	7.5	0	95.1	80	120	0	0		

Sample ID: **057952-008AMS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020726I**
Client ID: **570-121-0.3** Batch ID: **9796** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307420**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	16.16	0.40	10	6.857	93	80	120	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

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ANALYTICAL QC SUMMARY REPORT

BatchID: 9796

Sample ID: **057952-046AMS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020726I**
Client ID: **570-304-0.6** Batch ID: **9796** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307433**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.804	0.20	5	1.418	87.7	80	120	0	0		

Sample ID: **057952-008ADUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/23/2002** Run ID: **AA2_020726I**
Client ID: **570-121-0.3** Batch ID: **9796** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307419**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.223	0.20	0	0	0	0	0	6.857	5.19	30	

Sample ID: **057952-046ADUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/23/2002** Run ID: **AA2_020726I**
Client ID: **570-304-0.6** Batch ID: **9796** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307432**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.3069	0.20	0	0	0	0	0	1.418	129	30	R

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9797

Sample ID: **MB-9797** SampType: **MBLK** TestCode: **6010_ST** Units: **mg/L** Prep Date: **7/23/2002** Run ID: **ICP2_020726D**
Client ID: **ZZZZZ** Batch ID: **9797** TestNo: **WET/ EPA 60 (WET)** Analysis Date: **7/26/2002** SeqNo: **307219**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0	0.10									

Sample ID: **LCS-9797** SampType: **LCS** TestCode: **6010_ST** Units: **mg/L** Prep Date: **7/23/2002** Run ID: **ICP2_020726D**
Client ID: **ZZZZZ** Batch ID: **9797** TestNo: **WET/ EPA 60 (WET)** Analysis Date: **7/26/2002** SeqNo: **307220**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.9	0.10	1	0	90	80	120	0	0		

Sample ID: **057878-002AMS** SampType: **MS** TestCode: **6010_ST** Units: **mg/L** Prep Date: **7/23/2002** Run ID: **ICP2_020726D**
Client ID: **ZZZZZ** Batch ID: **9797** TestNo: **WET/ EPA 60 (WET)** Analysis Date: **7/26/2002** SeqNo: **307223**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	22.9	1.0	25	0.6	89.2	66	118	0	0		

Sample ID: **057878-002AMSD** SampType: **MSD** TestCode: **6010_ST** Units: **mg/L** Prep Date: **7/23/2002** Run ID: **ICP2_020726D**
Client ID: **ZZZZZ** Batch ID: **9797** TestNo: **WET/ EPA 60 (WET)** Analysis Date: **7/26/2002** SeqNo: **307224**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	23.1	1.0	25	0.6	90	66	118	22.9	0.870	20	

Sample ID: **MB-9797** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020726J**
Client ID: **ZZZZZ** Batch ID: **9797** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307436**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.07773	0.20									

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9797

Sample ID: **MB-9797A** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/23/2002** Run ID: **AA2_020726J**
Client ID: **ZZZZZ** Batch ID: **9797** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307437**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.06949	0.20									

Sample ID: **LCS-9797** SampType: **LCS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020726J**
Client ID: **ZZZZZ** Batch ID: **9797** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307445**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.068	0.20	7.5	0	94.2	80	120	0	0		

Sample ID: **057952-049AMS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020726J**
Client ID: **570-305-0** Batch ID: **9797** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307443**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	173.4	4.0	100	79.22	94.2	80	120	0	0		

Sample ID: **057952-049ADUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/23/2002** Run ID: **AA2_020726J**
Client ID: **570-305-0** Batch ID: **9797** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307442**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	79.66	2.0	0	0	0	0	0	79.22	0.562	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
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Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 9956

Sample ID: **MB-9956** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802K**
Client ID: **ZZZZZ** Batch ID: **9956** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312453**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9956A** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020802K**
Client ID: **ZZZZZ** Batch ID: **9956** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312454**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9956B** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020802K**
Client ID: **ZZZZZ** Batch ID: **9956** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312467**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-9956** SampType: **LCS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802K**
Client ID: **ZZZZZ** Batch ID: **9956** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312481**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.494	0.20	7.5	0	99.9	80	120	0	0		

Sample ID: **057951-020AMS** SampType: **MS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802K**
Client ID: **ZZZZZ** Batch ID: **9956** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312466**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.316	0.20	5	0	106	80	120	0	0		

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9956

Sample ID: **057952-017AMS** SampType: **MS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802K**
Client ID: **570-216-0** Batch ID: **9956** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312479**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.271	0.20	5	0	105	80	120	0	0		

Sample ID: **057951-020ADUP** SampType: **DUP** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020802K**
Client ID: **ZZZZZ** Batch ID: **9956** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312465**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20	0	0	0	0	0	0	0	30	

Sample ID: **057952-017ADUP** SampType: **DUP** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020802K**
Client ID: **570-216-0** Batch ID: **9956** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312478**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20	0	0	0	0	0	0	0	30	

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9957

Sample ID: **MB-9957** SampType: **mblk** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802L**
Client ID: **ZZZZZ** Batch ID: **9957** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312546**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9957A** SampType: **mblk** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020802L**
Client ID: **ZZZZZ** Batch ID: **9957** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312547**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-9957** SampType: **lcs** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802L**
Client ID: **ZZZZZ** Batch ID: **9957** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312557**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.475	0.20	7.5	0	99.7	80	120	0	0		

Sample ID: **057952-049AMS** SampType: **MS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802L**
Client ID: **570-305-0** Batch ID: **9957** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312555**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.328	0.20	5	0.06367	105	80	120	0	0		

Sample ID: **057952-049ADUP** SampType: **DUP** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020802L**
Client ID: **570-305-0** Batch ID: **9957** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312554**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.148	0.20	0	0	0	0	0	0.06367	0	30	J

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: R19607

Sample ID: **057952-056A-DUP** SampType: **DUP** TestCode: **9045_S** Units: **pH Units** Prep Date: **7/21/2002** Run ID: **WETCHEM_020721C**
Client ID: **570-306-0.6** Batch ID: **R19607** TestNo: **EPA 9045C** Analysis Date: **7/21/2002** SeqNo: **302560**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	6.623	0.10	0	0	0	0	0	6.665	0.632	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
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Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

Rachelle

From: Ruth Cheung [rcheung@ninyoandmoore.com]
Sent: Tuesday, August 06, 2002 3:46 PM
To: 'Rachelle'; 'David Shaler (E-mail)'
Subject: Title 22 Metals

Title 22 Metals.xls

Rachelle,
Please run the following samples for Title 22 Metals. Please do not list
Pb in your emailed results. There should be a total of 120 samples to be
run.
Thanks.

Ruth L. Cheung
Staff Environmental Scientist
Ninyo & Moore
(949) 753-7070 x2273

569-102-0.9	570-101-0	571-101-0.9
569-112-0	570-101-0.6	571-104-0
569-201-0	570-201-0	571-201-0.6
569-206-0.6	570-205-0.9	571-108-1.5
569-106-1.5	570-106-0.3	571-111-0.3
569-212-0	570-208-1.5	571-207-0
569-401-0.6	570-111-0.6	571-210-0.6
569-301-0	570-214-0	571-115-0.9
569-303-0.9	570-115-0.3	571-214-0.3
569-404-0.6	570-119-0.9	571-120-0
569-408-0.9	570-224-0.6	571-217-1.5
569-314-0	570-401-0	571-220-0.6
569-313-0.3	570-401-0.3	571-301-0.3
569-502-0.6	570-304-1.5	571-405-0
569-602-1.5	570-307-0.9	571-306-0.9
569-607-0.3	570-311-0.6	571-407-0
569-607-0	570-312-0.6	571-310-0.9
569-508-0.9	570-316-0.3	571-315-0.3
569-511-0.6	570-601-0	571-412-1.5
569-612-1.5	570-505-1.5	571-317-0
569-516-0	570-508-0	571-320-0.6
569-801-0.3	570-610-0.6	571-416-0.9
569-519-0.6	570-511-0.9	571-325-0.3
569-803-0.9	570-615-0	571-421-1.5
569-705-0	570-514-0.3	571-425-0
569-806-1.5	570-517-0	571-501-0.6
569-708-0.3	570-618-0.6	571-503-0.9
569-711-0	570-621-1.5	571-603-0.3
569-811-0	570-703-0.9	571-507-0
	570-804-0	571-609-0
	570-706-0	571-510-1.5
	570-709-0	571-611-0
	570-808-0.6	571-514-0
	570-711-1.5	571-614-0.3
	570-812-0.3	571-517-0.9
		571-617-0.6
		571-520-1.5
		571-621-0.3
		571-524-0
		571-624-0.9
		571-529-0.3
		571-628-0.6
		571-703-1.5
		571-707-0
		571-804-0.9
		571-809-0.3
		571-711-0
		571-712-0
		571-814-0.3
		571-818-0.6
		571-819-0
		571-827-1.5

571-832-0.9
571-836-0.3
571-837-0.6
571-842-0

Rachelle

From: Ruth Cheung [rcheung@ninyoandmoore.com]
Sent: Thursday, August 08, 2002 9:14 AM
To: 'Rachelle'
Subject: TCLP Analysis

TCLP-3.xls

In addition to the 90 TCLP already run please run the following samples for
TCLP. There should be a list of 350 samples.
Thanks for a the hard work and timely results.

Ruth L. Cheung
Staff Environmental Scientist
Ninyo & Moore
(949) 753-7070 x2273

-----Original Message-----
From: Rachelle [SMTP:Rachelle@ATLGlobal.com]
Sent: Wednesday, August 07, 2002 5:02 PM
To: 'David Shaler (E-mail)'
Cc: 'Ruth Cheung (E-mail)'
Subject: TCLP Results

<<57931TCLP.xls>> <<58001TCLP.xls>> <<58021TCLP.xls>> <<58022TCLP.xls>>
<<58023TCLP.xls>> <<58024TCLP.xls>> <<58049TCLP.xls>> <<58050TCLP.xls>>
<<58052TCLP.xls>> <<58053TCLP.xls>> <<58065TCLP.xls>> <<58066TCLP.xls>>
<<58067TCLP.xls>> <<58068TCLP.xls>> <<58069TCLP.xls>>

Rachelle Arada
Project Coordinator
www.atlglobal.com
voice: 562.989.4045 ext 237
fax : 562.989.4040

<< File: 57931TCLP.xls >> << File: 58001TCLP.xls >> << File: 58021TCLP.xls >> << File: 58022TCLP.xls >> << File: 58023TCLP.xls >> << File: 58024TCLP.xls >> << File: 58049TCLP.xls >> << File: 58050TCLP.xls >> << File: 58052TCLP.xls >> << File: 58053TCLP.xls >> << File: 58065TCLP.xls >> << File: 58066TCLP.xls >> << File: 58067TCLP.xls >> << File: 58068TCLP.xls >> << File: 58069TCLP.xls >>

569-404-0	2. STLC	170
569-402-0	2. STLC	130
569-406-0	2. STLC	120
569-515-0	2. STLC	110
569-611-0	2. STLC	100
569-409-0	2. STLC	94
569-603-0	2. STLC	93
569-104-0.6	2. STLC	91
569-807-0	2. STLC	86
569-608-0	2. STLC	86
569-501-0	2. STLC	84
569-710-0.3	2. STLC	83
569-808-0	2. STLC	83
569-609-0.6	2. STLC	80
569-803-0	2. STLC	79
569-105-0	2. STLC	78
569-512-0	2. STLC	77
569-513-0	2. STLC	77
569-302-0	2. STLC	74
569-805-0	2. STLC	73
569-517-0	2. STLC	71
569-704-0.3	2. STLC	71
569-703-0.6	2. STLC	70
569-514-0.3	2. STLC	70
569-803-0.3	2. STLC	69
569-409-0.6	2. STLC	69
569-411-0	2. STLC	68
569-102-0.6	2. STLC	68
569-809-0	2. STLC	65
569-605-0	2. STLC	65
569-711-0.6	2. STLC	62
569-806-0	2. STLC	60
569-802-0.3	2. STLC	60
569-410-0	2. STLC	59
569-501-0.6	2. STLC	59
569-808-0.3	2. STLC	58
569-104-0	2. STLC	56
569-804-0	2. STLC	54
569-610-0	2. STLC	54
569-608-0.3	2. STLC	53
569-213-0	2. STLC	49
569-701-0	2. STLC	47
569-311-0	2. STLC	47
569-609-0.9	2. STLC	46
569-513-0.3	2. STLC	45
569-801-0.6	2. STLC	44
569-514-0	2. STLC	42
569-805-0.6	2. STLC	42
569-408-1.5	2. STLC	42
569-807-0.3	2. STLC	40
569-204-0	2. STLC	40
569-517-0.3	2. STLC	36
569-518-0	2. STLC	36
569-806-0.3	2. STLC	36
569-705-1.5	2. STLC	35
569-303-0.6	2. STLC	34
569-516-0.3	2. STLC	33
569-705-0.6	2. STLC	33
569-802-0	2. STLC	33
569-515-0.6	2. STLC	32
569-704-0	2. STLC	32
569-401-0.3	2. STLC	32
569-207-0	2. STLC	32
569-608-0.6	2. STLC	31
569-104-0.3	2. STLC	31
569-201-0.6	2. STLC	30
569-515-0.3	2. STLC	28
569-212-0.6	2. STLC	28
569-103-0	2. STLC	28
569-313-0	2. STLC	27
569-103-0.3	2. STLC	26
569-705-0.9	2. STLC	25
569-707-0.3	2. STLC	25
569-515-1.5	2. STLC	24
569-508-0	2. STLC	24
569-801-0	2. STLC	24
569-402-0.6	2. STLC	24
569-516-0.6	2. STLC	22
569-509-0.3	2. STLC	22
569-106-0	2. STLC	22
569-106-0.3	2. STLC	22
569-202-0	2. STLC	21
569-805-1.5	2. STLC	21
569-205-0	2. STLC	20
569-707-0	2. STLC	19

570-515-0.3	2. STLC	120
570-811-0	2. STLC	110
570-114-0.0	2. STLC	110
570-504-0.6	2. STLC	100
570-811-1.5	2. STLC	90
570-615-0.6	2. STLC	84
570-305-0	2. STLC	79
570-314-0.6	2. STLC	76
570-505-0.6	2. STLC	75
570-208-0.6	2. STLC	74
570-116-0.0	2. STLC	73
570-102-0	2. STLC	65
570-804-0.6	2. STLC	64
570-704-0	2. STLC	63
570-508-0.6	2. STLC	60
570-706-0.3	2. STLC	60
570-303-0	2. STLC	58
570-311-1.5	2. STLC	58
570-117-0.0	2. STLC	58
570-208-0.3	2. STLC	58
570-709-0.6	2. STLC	57
570-703-0	2. STLC	55
570-206-0	2. STLC	54
570-301-0	2. STLC	53
570-603-0.3	2. STLC	46
570-711-0.6	2. STLC	46
570-206-0.3	2. STLC	45
570-103-0	2. STLC	44
570-602-0	2. STLC	41
570-209-0	2. STLC	40
570-210-0	2. STLC	40
570-117-0.3	2. STLC	39
570-103-0.6	2. STLC	37
570-110-0.6	2. STLC	37
570-805-0.9	2. STLC	36
570-112-1.5	2. STLC	35
570-614-0	2. STLC	34
570-713-0.3	2. STLC	33
570-513-0	2. STLC	32
570-312-0.3	2. STLC	31
570-503-0.6	2. STLC	31
570-510-0.6	2. STLC	31
570-202-0	2. STLC	31
570-207-0	2. STLC	31
570-209-0.3	2. STLC	31
570-703-0.3	2. STLC	30
570-401-0	2. STLC	30
570-610-0.9	2. STLC	29
570-809-0.6	2. STLC	29
570-509-0.9	2. STLC	29
570-210-0.6	2. STLC	29
570-211-0	2. STLC	29
570-603-0	2. STLC	28
570-119-0	2. STLC	28
570-713-0.6	2. STLC	28
570-108-0	2. STLC	27
570-708-0.6	2. STLC	27
570-224-0	2. STLC	26
570-601-0	2. STLC	26
570-710-0.6	2. STLC	26
570-614-0.6	2. STLC	26
570-118-0.3	2. STLC	26
570-304-0	2. STLC	25
570-707-0.6	2. STLC	25
570-510-0	2. STLC	25
570-110-0	2. STLC	24
570-223-0	2. STLC	24
570-117-0.6	2. STLC	24
570-616-0	2. STLC	23
570-704-0.3	2. STLC	22
570-513-0.6	2. STLC	22
570-221-0.0	2. STLC	22
570-617-0	2. STLC	21
570-214-0.3	2. STLC	21
570-122-0.9	2. STLC	20
570-313-0.6	2. STLC	19
570-207-0.6	2. STLC	19
570-120-0.9	2. STLC	18
570-506-0	2. STLC	18
570-102-0.9	2. STLC	17
570-216-0	2. STLC	17
570-225-0	2. STLC	17
570-304-0.3	2. STLC	17
570-409-0	2. STLC	17
570-713-0	2. STLC	17

571-521-0	2. STLC	230
571-324-0.9	2. STLC	110
571-818-0	2. STLC	110
571-819-0.6	2. STLC	110
571-708-0	2. STLC	110
571-103-0.6	2. STLC	110
571-617-0.3	2. STLC	100
571-611-0.6	2. STLC	92
571-712-0.9	2. STLC	81
571-105-0.6	2. STLC	81
571-313-0	2. STLC	79
571-508-0	2. STLC	73
571-518-0.3	2. STLC	73
571-217-0	2. STLC	68
571-516-0	2. STLC	66
571-701-0.3	2. STLC	66
571-710-0.6	2. STLC	65
571-512-0	2. STLC	64
571-308-0.9	2. STLC	61
571-701-0	2. STLC	61
571-514-0.3	2. STLC	59
571-415-0	2. STLC	58
571-616-0.6	2. STLC	57
571-517-0	2. STLC	56
571-112-0.9	2. STLC	56
571-214-0	2. STLC	55
571-415-0.3	2. STLC	55
571-405-0.6	2. STLC	55
571-530-0	2. STLC	55
571-831-0	2. STLC	53
571-709-0	2. STLC	53
571-103-0.0	2. STLC	52
571-312-0	2. STLC	51
571-526-0	2. STLC	51
571-819-1.5	2. STLC	51
571-515-0	2. STLC	50
571-833-0	2. STLC	49
571-815-0.6	2. STLC	47
571-517-0.3	2. STLC	46
571-610-0	2. STLC	46
571-413-0	2. STLC	46
571-815-0	2. STLC	45
571-514-0.9	2. STLC	44
571-505-1.5	2. STLC	44
571-528-0	2. STLC	44
571-610-0.6	2. STLC	43
571-629-0	2. STLC	43
571-604-0	2. STLC	42
571-213-0	2. STLC	41
571-812-0	2. STLC	41
571-706-0	2. STLC	41
571-530-0.6	2. STLC	41
571-305-0	2. STLC	40
571-523-0.3	2. STLC	39
571-510-0	2. STLC	39
571-305-0.9	2. STLC	39
571-818-1.5	2. STLC	39
571-703-0	2. STLC	38
571-520-0.3	2. STLC	36
571-216-0	2. STLC	34
571-827-0	2. STLC	34
571-708-0.3	2. STLC	34
571-514-0.6	2. STLC	33
571-528-1.5	2. STLC	33
571-803-0	2. STLC	33
571-414-0.3	2. STLC	33
571-813-0.3	2. STLC	32
571-523-0	2. STLC	31
571-326-0	2. STLC	31
571-502-0.6	2. STLC	31
571-624-1.5	2. STLC	31
571-330-0	2. STLC	31
571-512-0.3	2. STLC	30
571-521-0.6	2. STLC	29
571-706-0.3	2. STLC	29
571-814-0.6	2. STLC	28
571-616-1.5	2. STLC	28
571-835-0	2. STLC	28
571-811-0.3	2. STLC	28
571-101-0.6	2. STLC	28
571-112-0	2. STLC	28
571-315-0	2. STLC	27
571-622-0	2. STLC	27
571-607-0.6	2. STLC	27
571-609-0.6	2. STLC	27

569-709-0	2. STLC	19
569-202-0.3	2. STLC	19
569-602-0	2. STLC	19
569-207-0.3	2. STLC	19
569-706-0.3	2. STLC	17
569-807-0.9	2. STLC	17
569-104-0.9	2. STLC	17
569-505-0.6	2. STLC	17
569-704-0.6	2. STLC	16
569-808-0.6	2. STLC	16
569-212-0.3	2. STLC	16
569-612-0	2. STLC	16
569-704-1.5	2. STLC	15
569-411-0.3	2. STLC	15
569-113-0	2. STLC	15
569-807-0.6	2. STLC	14
569-311-0.3	2. STLC	12
569-312-0	2. STLC	10
569-311-0.9	2. STLC	8.3

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570-401-0.3	2. STLC	17
570-616-0.6	2. STLC	17
570-308-0	2. STLC	16
570-807-0.9	2. STLC	16
570-701-0.6	2. STLC	16
570-617-0.3	2. STLC	16
570-107-0.6	2. STLC	15
570-811-0.6	2. STLC	15
570-707-0	2. STLC	15
570-518-0	2. STLC	15
570-111-0.0	2. STLC	15
570-109-0.6	2. STLC	14
570-401-0.9	2. STLC	4.1
570-408-0	2. STLC	4
570-409-0.3	2. STLC	3
570-401-0.6		0
570-401-1.5		0
570-408-0.6		0
570-408-1.5		0

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571-837-0.3	2. STLC	27
571-520-0	2. STLC	26
571-516-0.3	2. STLC	26
571-420-0	2. STLC	26
571-102-0.6	2. STLC	26
571-517-1.5	2. STLC	25
571-513-0.6	2. STLC	25
571-623-0.6	2. STLC	25
571-112-0.3	2. STLC	25
571-326-0.6	2. STLC	24
571-619-0.3	2. STLC	24
571-619-0.9	2. STLC	24
571-528-0.3	2. STLC	24
571-706-0.6	2. STLC	24
571-112-0.6	2. STLC	24
571-327-0.6	2. STLC	23
571-817-0	2. STLC	23
571-425-0.6	2. STLC	22
571-118-0	2. STLC	22
571-829-0	2. STLC	22
571-828-0	2. STLC	22
571-122-0	2. STLC	21
571-101-1.5	2. STLC	21
571-530-0.3	2. STLC	21
571-406-0.6	2. STLC	20
571-517-0.6	2. STLC	20
571-835-0.3	2. STLC	20
571-501-0	2. STLC	20
571-518-0.9	2. STLC	19
571-510-0.3	2. STLC	19
571-814-0.9	2. STLC	19
571-522-0.6	2. STLC	19
571-622-1.5	2. STLC	19
571-812-0.6	2. STLC	19
571-701-0.6	2. STLC	19
571-704-0	2. STLC	19
571-711-0.6	2. STLC	19
571-212-0	2. STLC	18
571-839-0.6	2. STLC	18
571-610-1.5	2. STLC	18
571-709-0.3	2. STLC	18
571-311-0.6	2. STLC	17
571-620-0	2. STLC	17
571-109-0	2. STLC	17
571-704-0.3	2. STLC	17
571-207-1.5	2. STLC	16
571-203-0	2. STLC	16
571-616-0.3	2. STLC	16
571-317-0.3	2. STLC	16
571-629-0.3	2. STLC	16
571-416-0	2. STLC	15
571-419-0	2. STLC	15
571-526-0.3	2. STLC	15
571-619-0	2. STLC	15
571-606-0	2. STLC	15
571-115-0.6	2. STLC	14
571-202-0.9	2. STLC	11

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Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

tblTEMP

WorkOrder	ClientSampID	TestNo	Analyte	PQL	DF	CollectionDate	AnalDate	PrepDate
057952	570-120-0	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057952	570-120-0	EPA 9045C	pH	0.1	1	7/16/2002	7/21/2002	7/21/2002
057952	570-120-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057952	570-120-0.6	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057952	570-120-0.9	EPA 1311/ 7420	Lead	0.2	1	7/16/2002	8/14/2002	8/13/2002
057952	570-120-0.9	EPA 6010B	Lead	5	1	7/16/2002	7/21/2002	7/18/2002
057952	570-120-0.9	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057952	570-120-0.9	WET/ EPA 7420	Lead	0.4	2	7/16/2002	7/26/2002	7/23/2002
057952	570-120-1.5	EPA 6010B	Lead	5	1	7/16/2002	7/21/2002	7/18/2002
057952	570-120-1.5	WET/ EPA 7420	Lead	0.2	1	7/16/2002	7/26/2002	7/23/2002
057952	570-121-0	EPA 6010B	Lead	5	1	7/16/2002	7/21/2002	7/18/2002
057952	570-121-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/21/2002	7/18/2002
057952	570-121-0.3	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057952	570-121-0.3	WET/ EPA 7420	Lead	0.2	1	7/16/2002	7/26/2002	7/23/2002
057952	570-121-0.6	EPA 6010B	Lead	5	1	7/16/2002	7/21/2002	7/18/2002
057952	570-121-0.9	EPA 6010B	Lead	5	1	7/16/2002	7/21/2002	7/18/2002
057952	570-121-1.5	EPA 6010B	Lead	5	1	7/16/2002	7/21/2002	7/18/2002
057952	570-122-0	EPA 6010B	Lead	5	1	7/16/2002	7/21/2002	7/18/2002
057952	570-122-0	EPA 9045C	pH	0.1	1	7/16/2002	7/21/2002	7/21/2002
057952	570-122-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/21/2002	7/18/2002
057952	570-122-0.6	EPA 6010B	Lead	5	1	7/16/2002	7/21/2002	7/18/2002
057952	570-122-0.9	EPA 1311/ 7420	Lead	0.2	1	7/16/2002	8/14/2002	8/13/2002
057952	570-122-0.9	EPA 6010B	Lead	5	1	7/16/2002	7/21/2002	7/18/2002
057952	570-122-0.9	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057952	570-122-0.9	WET/ EPA 7420	Lead	0.4	2	7/16/2002	7/26/2002	7/23/2002
057952	570-122-1.5	EPA 6010B	Lead	5	1	7/16/2002	7/21/2002	7/18/2002
057952	570-216-0	EPA 1311/ 7420	Lead	0.2	1	7/16/2002	8/14/2002	8/13/2002
057952	570-216-0	EPA 6010B	Lead	5	1	7/16/2002	7/21/2002	7/18/2002
057952	570-216-0	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057952	570-216-0	WET/ EPA 7420	Lead	0.4	2	7/16/2002	7/26/2002	7/23/2002
057952	570-216-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/21/2002	7/18/2002
057952	570-218-0	EPA 6010B	Lead	5	1	7/16/2002	7/21/2002	7/18/2002
057952	570-218-0	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057952	570-218-0	WET/ EPA 7420	Lead	0.2	1	7/16/2002	7/26/2002	7/23/2002
057952	570-218-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/21/2002	7/18/2002

057952	570-218-0.3	WET/ EPA 7420	Lead	0.2	1	7/16/2002	7/26/2002	7/23/2002
057952	570-218-0.6	EPA 6010B	Lead	5	1	7/16/2002	7/21/2002	7/18/2002
057952	570-218-0.9	EPA 6010B	Lead	5	1	7/16/2002	7/21/2002	7/18/2002
057952	570-218-1.5	EPA 6010B	Lead	5	1	7/16/2002	7/21/2002	7/18/2002
057952	570-218-1.5	EPA 9045C	pH	0.1	1	7/16/2002	7/21/2002	7/21/2002
057952	570-220-0	EPA 6010B	Lead	5	1	7/16/2002	7/21/2002	7/18/2002
057952	570-220-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/22/2002	7/18/2002
057952	570-220-0.6	EPA 6010B	Lead	5	1	7/16/2002	7/22/2002	7/18/2002
057952	570-220-0.9	EPA 6010B	Lead	5	1	7/16/2002	7/22/2002	7/18/2002
057952	570-220-1.5	EPA 6010B	Lead	5	1	7/16/2002	7/22/2002	7/18/2002
057952	570-222-0	EPA 6010B	Lead	5	1	7/16/2002	7/22/2002	7/18/2002
057952	570-222-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/22/2002	7/18/2002
057952	570-222-0.6	EPA 6010B	Lead	5	1	7/16/2002	7/22/2002	7/18/2002
057952	570-222-0.9	EPA 6010B	Lead	5	1	7/16/2002	7/22/2002	7/18/2002
057952	570-222-1.5	EPA 6010B	Lead	5	1	7/16/2002	7/22/2002	7/18/2002
057952	570-222-1.5	EPA 9045C	pH	0.1	1	7/16/2002	7/21/2002	7/21/2002
057952	570-302-0	EPA 6010B	Lead	5	1	7/16/2002	7/22/2002	7/18/2002
057952	570-302-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/22/2002	7/18/2002
057952	570-302-0.6	EPA 6010B	Lead	5	1	7/16/2002	7/22/2002	7/18/2002
057952	570-302-0.9	EPA 6010B	Lead	5	1	7/16/2002	7/22/2002	7/18/2002
057952	570-302-1.5	EPA 6010B	Lead	5	1	7/16/2002	7/22/2002	7/18/2002
057952	570-303-0	EPA 1311/ 7420	Lead	0.2	1	7/16/2002	8/14/2002	8/13/2002
057952	570-303-0	EPA 6010B	Lead	5	1	7/16/2002	7/22/2002	7/18/2002
057952	570-303-0	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057952	570-303-0	WET/ EPA 7420	Lead	2	10	7/16/2002	7/26/2002	7/23/2002
057952	570-303-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/22/2002	7/18/2002
057952	570-303-0.3	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057952	570-303-0.3	WET/ EPA 7420	Lead	0.4	2	7/16/2002	7/26/2002	7/23/2002
057952	570-303-0.6	EPA 6010B	Lead	5	1	7/16/2002	7/22/2002	7/18/2002
057952	570-303-0.6	WET/ EPA 7420	Lead	0.2	1	7/16/2002	7/26/2002	7/23/2002
057952	570-303-0.9	EPA 6010B	Lead	5	1	7/16/2002	7/22/2002	7/18/2002
057952	570-303-1.5	EPA 6010B	Lead	5	1	7/16/2002	7/22/2002	7/18/2002
057952	570-304-0	EPA 1311/ 7420	Lead	0.2	1	7/16/2002	8/14/2002	8/13/2002
057952	570-304-0	EPA 6010B	Lead	5	1	7/16/2002	7/22/2002	7/18/2002
057952	570-304-0	EPA 9045C	pH	0.1	1	7/16/2002	7/21/2002	7/21/2002
057952	570-304-0	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002

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057952	570-304-0	WET/ EPA 7420	Lead	0.8	4	7/16/2002	7/26/2002	7/23/2002
057952	570-304-0.3	EPA 1311/ 7420	Lead	0.2	1	7/16/2002	8/14/2002	8/13/2002
057952	570-304-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/21/2002	7/18/2002
057952	570-304-0.3	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057952	570-304-0.3	WET/ EPA 7420	Lead	0.4	2	7/16/2002	7/26/2002	7/23/2002
057952	570-304-0.6	EPA 6010B	Lead	5	1	7/16/2002	7/21/2002	7/18/2002
057952	570-304-0.6	WET/ EPA 7420	Lead	0.2	1	7/16/2002	7/26/2002	7/23/2002
057952	570-304-0.9	EPA 6010B	Lead	5	1	7/16/2002	7/21/2002	7/18/2002
057952	570-304-1.5	EPA 6010B	Antimony	2.5	10	7/16/2002	8/10/2002	8/8/2002
057952	570-304-1.5	EPA 6010B	Arsenic	2.5	10	7/16/2002	8/10/2002	8/8/2002
057952	570-304-1.5	EPA 6010B	Barium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057952	570-304-1.5	EPA 6010B	Beryllium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057952	570-304-1.5	EPA 6010B	Cadmium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057952	570-304-1.5	EPA 6010B	Chromium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057952	570-304-1.5	EPA 6010B	Cobalt	1.5	10	7/16/2002	8/10/2002	8/8/2002
057952	570-304-1.5	EPA 6010B	Copper	1.5	10	7/16/2002	8/10/2002	8/8/2002
057952	570-304-1.5	EPA 6010B	Lead	5	1	7/16/2002	7/21/2002	7/18/2002
057952	570-304-1.5	EPA 6010B	Molybdenum	2.5	10	7/16/2002	8/10/2002	8/8/2002
057952	570-304-1.5	EPA 6010B	Nickel	1.5	10	7/16/2002	8/10/2002	8/8/2002
057952	570-304-1.5	EPA 6010B	Selenium	2.5	10	7/16/2002	8/10/2002	8/8/2002
057952	570-304-1.5	EPA 6010B	Silver	1.5	10	7/16/2002	8/10/2002	8/8/2002
057952	570-304-1.5	EPA 6010B	Thallium	2.5	10	7/16/2002	8/10/2002	8/8/2002
057952	570-304-1.5	EPA 6010B	Vanadium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057952	570-304-1.5	EPA 6010B	Zinc	5	10	7/16/2002	8/10/2002	8/8/2002
057952	570-304-1.5	EPA 7471A	Mercury	0.1	1	7/16/2002	8/9/2002	8/7/2002
057952	570-304-1.5	WET/ EPA 7420	Lead	0.2	1	7/16/2002	7/26/2002	7/23/2002
057952	570-305-0	EPA 1311/ 7420	Lead	0.2	1	7/16/2002	8/14/2002	8/13/2002
057952	570-305-0	EPA 6010B	Lead	5	1	7/16/2002	7/21/2002	7/18/2002
057952	570-305-0	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057952	570-305-0	WET/ EPA 7420	Lead	2	10	7/16/2002	7/26/2002	7/23/2002
057952	570-305-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/21/2002	7/18/2002
057952	570-305-0.6	EPA 6010B	Lead	5	1	7/16/2002	7/21/2002	7/18/2002
057952	570-305-0.9	EPA 6010B	Lead	5	1	7/16/2002	7/21/2002	7/18/2002
057952	570-305-1.5	EPA 6010B	Lead	5	1	7/16/2002	7/21/2002	7/18/2002
057952	570-306-0	EPA 6010B	Lead	5	1	7/16/2002	7/21/2002	7/18/2002
057952	570-306-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/21/2002	7/18/2002

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057952	570-306-0.6	EPA 6010B	Lead	5	1	7/16/2002	7/21/2002	7/18/2002
057952	570-306-0.6	EPA 9045C	pH	0.1	1	7/16/2002	7/21/2002	7/21/2002
057952	570-306-0.9	EPA 6010B	Lead	5	1	7/16/2002	7/21/2002	7/18/2002
057952	570-306-1.5	EPA 6010B	Lead	5	1	7/16/2002	7/21/2002	7/18/2002
057952	EB-2	EPA 6010B	Lead	0.005	1	7/15/2002	7/18/2002	7/17/2002
057952	EB-9	EPA 6010B	Lead	0.005	1	7/16/2002	7/18/2002	7/17/2002

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August 19, 2002

David Shaler
Ninyo & Moore
475 Goddard Suite 200
Irvine, CA 92618
TEL: (949) 753-7070
FAX: (949) 753-7071

RE: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

Attention: David Shaler

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AUG 2 6 2002

NINYO & MOORE
ORANGE COUNTY OFFICE

ELAP No.: 1838
NELAP No.: 02107CA
Workorder No.: 057951

Enclosed are the results for sample(s) received on July 16, 2002 by Advanced Technology Laboratories and tested for the parameters indicated in the enclosed chain of custody.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

This cover letter is an integral part of this analytical report.

Laboratory	Site	Consultant
Advanced Technology Laboratories	Caltrans/I-10 (605-57)/Lead Survey	Ninyo & Moore - David Shaler/Steve Reese
3275 Walnut Avenue, Signal Hill, CA 90807	TO 07-117070-PX	475 Goddard. Suite 200, Irvine, CA 92618
Tel. (562) 989-4045 Fax (562) 989-6348	Project # 203939001	Tel. (949) 753-7070 Fax (949) 753-7071

Special Instructions

See Project specifications. 5 Day TAT.

Relinquished by: (name/date/time) [signature] 7-16-02	Received by: (name/date/time) [signature] 7-16-02 4:10p
Relinquished by: (name/date/time) [signature] 7-16-02 8:00p	Received by: (name/date/time) [signature] 7/16/02 5:00pm

Lab No	Sample I.D	Date	Time	Sample container P=plastic B=brass	Analyses: Total Lead EPA Method 6010	Analyses: pH EPA Method 9045
	EB- 8	7/16/02	4:00pm	P	X	
	570- 501-0	7/16/02	9:33	B	X	X
	570- 501-0.3		9:56		X	
	570- 502-0		9:12		X	
	570- 502-0.3		9:26		X	
	570- 408-0		10:20		X	
	570- 408-0.3		10:23		X	
	570- 408-0.6		10:27		X	
	570- 408-0.9		10:34		X	
	570- 408-1.5		10:48		X	
	570- 409-0		10:45		X	
	570- 409-0.3		10:57		X	
	570- 601-0		11:10		X	X
	570- 607-0.3		11:13		X	
	570- 601-0.6		11:17		X	
	570- 601-0.9		11:22		X	
	570- 602-0		11:11		X	
	570- 602-0.3		11:19		X	
	570- 602-0.6		11:28		X	
	570- 602-0.9		11:34		X	
	570- 603-0		11:45		X	
	570- 603-0.3		11:52		X	
	570- 603-0.6		11:56		X	X
	570- 223-0.0		1:25pm		X	
	570- 223-0.3		1:31pm		X	
	570- 224-0		1:29pm		X	
	570- 224-0.3		1:31pm		X	
	570- 224-0.6		1:40pm		X	
	570- 225-0		1:38pm		X	
	570- 225-0.3		1:45pm		X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
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	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	

Total # of samples: 30

Advanced Technology Laboratories

Date: *22-Jul-02*

CLIENT: Ninyo & Moore
Lab Order: 057951
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Lab ID: 057951-001A

Client Sample ID: EB-8
Collection Date: 7/16/2002 4:00:00 PM
Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
LEAD BY ICP	**(EPA 3010A)**			**EPA 6010B**		
RunID: ICP2_020718D	QC Batch: 9624					Analyst: **RQ**
Lead	ND	0.0050		mg/L	1	7/18/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: 7/22/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057951
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/16/2002 8:00:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057951-002A	570-501-0	200	mg/Kg	9632	5	1	7/16/2002	7/20/2002
057951-003A	570-501-0.3	20	mg/Kg	9632	5	1	7/16/2002	7/20/2002
057951-004A	570-502-0	65	mg/Kg	9632	5	1	7/16/2002	7/20/2002
057951-005A	570-502-0.3	25	mg/Kg	9632	5	1	7/16/2002	7/20/2002
057951-006A	570-408-0	61	mg/Kg	9632	5	1	7/16/2002	7/20/2002
057951-007A	570-408-0.3	11	mg/Kg	9632	5	1	7/16/2002	7/20/2002
057951-008A	570-408-0.6	47	mg/Kg	9632	5	1	7/16/2002	7/20/2002
057951-009A	570-408-0.9	18	mg/Kg	9632	5	1	7/16/2002	7/20/2002
057951-010A	570-408-1.5	36	mg/Kg	9632	5	1	7/16/2002	7/20/2002
057951-011A	570-409-0	230	mg/Kg	9632	5	1	7/16/2002	7/20/2002
057951-012A	570-409-0.3	59	mg/Kg	9632	5	1	7/16/2002	7/20/2002

Qualifiers:

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DO - Surrogate Diluted Out
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E - Value above quantitation range
Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: 7/22/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057951
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/16/2002 8:00:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057951-013A	570-601-0	460	mg/Kg	9632	5	1	7/16/2002	7/20/2002
057951-014A	570-601-0.3	44	mg/Kg	9633	5	1	7/16/2002	7/20/2002
057951-015A	570-601-0.6	47	mg/Kg	9633	5	1	7/16/2002	7/20/2002
057951-016A	570-601-0.9	140	mg/Kg	9633	5	1	7/16/2002	7/20/2002
057951-017A	570-602-0	570	mg/Kg	9633	5	1	7/16/2002	7/20/2002
057951-018A	570-602-0.3	67	mg/Kg	9633	5	1	7/16/2002	7/20/2002
057951-019A	570-602-0.6	110	mg/Kg	9633	5	1	7/16/2002	7/20/2002
057951-020A	570-602-0.9	130	mg/Kg	9633	5	1	7/16/2002	7/20/2002
057951-021A	570-603-0	650	mg/Kg	9633	5	1	7/16/2002	7/20/2002
057951-022A	570-603-0.3	140	mg/Kg	9633	5	1	7/16/2002	7/20/2002
057951-023A	570-603-0.6	170	mg/Kg	9633	5	1	7/16/2002	7/20/2002

Qualifiers:

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Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: 7/22/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057951
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/16/2002 8:00:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057951-024A	570-223-0.0	330	mg/Kg	9633	5	1	7/16/2002	7/20/2002
057951-025A	570-223-0.3	96	mg/Kg	9633	5	1	7/16/2002	7/20/2002
057951-026A	570-224-0	310	mg/Kg	9633	5	1	7/16/2002	7/20/2002
057951-027A	570-224-0.3	18	mg/Kg	9633	5	1	7/16/2002	7/20/2002
057951-028A	570-224-0.6	41	mg/Kg	9633	5	1	7/16/2002	7/20/2002
057951-029A	570-225-0	170	mg/Kg	9633	5	1	7/16/2002	7/20/2002
057951-030A	570-225-0.3	110	mg/Kg	9633	5	1	7/16/2002	7/20/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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3275 Walnut Avenue, Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: 7/22/2002

pH
EPA 9045C

CLIENT:	Ninyo & Moore	**Lab Order:**	057951
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/16/2002 8:00:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057951-002A	570-501-0	7.59	pH Units	R19607	0.1	1	7/16/2002	7/21/2002
057951-013A	570-601-0	6.98	pH Units	R19607	0.1	1	7/16/2002	7/21/2002
057951-023A	570-603-0.6	7.38	pH Units	R19607	0.1	1	7/16/2002	7/21/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: 7/29/2002

LEAD BY ATOMIC ABSORPTION
WET/ EPA 7420

CLIENT:	Ninyo & Moore	**Lab Order:**	057951
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/16/2002 8:00:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057951-002A	570-501-0	9.6	mg/L	9795	0.2	1	7/16/2002	7/26/2002
057951-004A	570-502-0	2.4	mg/L	9795	0.2	1	7/16/2002	7/26/2002
057951-006A	570-408-0	4.0	mg/L	9795	0.2	1	7/16/2002	7/26/2002
057951-011A	570-409-0	17	mg/L	9795	0.4	2	7/16/2002	7/26/2002
057951-012A	570-409-0.3	3.0	mg/L	9795	0.2	1	7/16/2002	7/26/2002
057951-013A	570-601-0	26	mg/L	9795	0.8	4	7/16/2002	7/26/2002
057951-016A	570-601-0.9	5.9	mg/L	9795	0.2	1	7/16/2002	7/26/2002
057951-017A	570-602-0	41	mg/L	9795	2	10	7/16/2002	7/26/2002
057951-018A	570-602-0.3	5.1	mg/L	9795	0.2	1	7/16/2002	7/26/2002
057951-019A	570-602-0.6	7.1	mg/L	9795	0.2	1	7/16/2002	7/26/2002
057951-020A	570-602-0.9	7.2	mg/L	9795	0.2	1	7/16/2002	7/26/2002

Qualifiers:

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S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
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Advanced Technology Laboratories

Date: 7/29/2002

LEAD BY ATOMIC ABSORPTION
WET/ EPA 7420

CLIENT: Ninyo & Moore
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Project No:
PO No:

Lab Order: 057951
Date Received: 7/16/2002 8:00:0
Matrix: Soil
Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057951-021A	570-603-0	28	mg/L	9795	0.8	4	7/16/2002	7/26/2002
057951-022A	570-603-0.3	46	mg/L	9796	2	10	7/16/2002	7/26/2002
057951-023A	570-603-0.6	10	mg/L	9796	0.2	1	7/16/2002	7/26/2002
057951-024A	570-223-0.0	24	mg/L	9796	0.8	4	7/16/2002	7/26/2002
057951-025A	570-223-0.3	4.4	mg/L	9796	0.2	1	7/16/2002	7/26/2002
057951-026A	570-224-0	26	mg/L	9796	0.8	4	7/16/2002	7/26/2002
057951-029A	570-225-0	17	mg/L	9796	0.4	2	7/16/2002	7/26/2002
057951-030A	570-225-0.3	4.7	mg/L	9796	0.2	1	7/16/2002	7/26/2002

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Advanced Technology Laboratories
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Advanced Technology Laboratories

Date: 8/5/2002

LEAD BY ATOMIC ABSORPTION
WET DI/ EPA 7420

CLIENT:	Ninyo & Moore	**Lab Order:**	057951
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/16/2002 8:00:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057951-002A	570-501-0	ND	mg/L	9956	0.2	1	7/16/2002	8/2/2002
057951-011A	570-409-0	ND	mg/L	9956	0.2	1	7/16/2002	8/2/2002
057951-013A	570-601-0	ND	mg/L	9956	0.2	1	7/16/2002	8/2/2002
057951-016A	570-601-0.9	ND	mg/L	9956	0.2	1	7/16/2002	8/2/2002
057951-017A	570-602-0	ND	mg/L	9956	0.2	1	7/16/2002	8/2/2002
057951-018A	570-602-0.3	ND	mg/L	9956	0.2	1	7/16/2002	8/2/2002
057951-019A	570-602-0.6	ND	mg/L	9956	0.2	1	7/16/2002	8/2/2002
057951-020A	570-602-0.9	ND	mg/L	9956	0.2	1	7/16/2002	8/2/2002
057951-021A	570-603-0	ND	mg/L	9956	0.2	1	7/16/2002	8/2/2002
057951-022A	570-603-0.3	0.21	mg/L	9956	0.2	1	7/16/2002	8/2/2002
057951-023A	570-603-0.6	ND	mg/L	9956	0.2	1	7/16/2002	8/2/2002

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Advanced Technology Laboratories

Date: 8/5/2002

LEAD BY ATOMIC ABSORPTION
WET DI/ EPA 7420

CLIENT:	Ninyo & Moore	**Lab Order:**	057951
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/16/2002 8:00:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057951-024A	570-223-0.0	ND	mg/L	9956	0.2	1	7/16/2002	8/2/2002
057951-026A	570-224-0	ND	mg/L	9956	0.2	1	7/16/2002	8/2/2002
057951-029A	570-225-0	ND	mg/L	9956	0.2	1	7/16/2002	8/2/2002

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Advanced Technology Laboratories
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Advanced Technology Laboratories

Date: *13-Aug-02*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	570-601-0
Lab Order:	057951		
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Collection Date:**	7/16/2002 11:10:00 AM
Lab ID:	057951-013A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS						
(EPA 3050A)				**EPA 6010B**		
RunID: ICP2_020810D	QC Batch: 10211					Analyst: **RQ**
Antimony	ND	2.5		mg/Kg	10	8/10/2002
Arsenic	10	2.5		mg/Kg	10	8/10/2002
Barium	120	1.5		mg/Kg	10	8/10/2002
Beryllium	ND	1.5		mg/Kg	10	8/10/2002
Cadmium	ND	1.5		mg/Kg	10	8/10/2002
Chromium	10	1.5		mg/Kg	10	8/10/2002
Cobalt	5.0	1.5		mg/Kg	10	8/10/2002
Copper	40	1.5		mg/Kg	10	8/10/2002
Molybdenum	ND	2.5		mg/Kg	10	8/10/2002
Nickel	10	1.5		mg/Kg	10	8/10/2002
Selenium	ND	2.5		mg/Kg	10	8/10/2002
Silver	ND	1.5		mg/Kg	10	8/10/2002
Thallium	ND	2.5		mg/Kg	10	8/10/2002
Vanadium	30	1.5		mg/Kg	10	8/10/2002
Zinc	340	5.0		mg/Kg	10	8/10/2002
MERCURY BY COLD VAPOR TECHNIQUE						
(EPA 7471)				**EPA 7471A**		
RunID: AA1_020809C	QC Batch: 10166					Analyst: **NS**
Mercury	0.16	0.10		mg/Kg	1	8/9/2002

Qualifiers:

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Advanced Technology Laboratories
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Advanced Technology Laboratories

Date: *13-Aug-02*

CLIENT: Ninyo & Moore
Lab Order: 057951
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Lab ID: 057951-028A

Client Sample ID: 570-224-0.6
Collection Date: 7/16/2002 1:40:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS (EPA 3050A)				EPA 6010B		
RunID: ICP2_020810D	QC Batch: 10211					Analyst: **RQ**
Antimony	ND	2.5		mg/Kg	10	8/10/2002
Arsenic	10	2.5		mg/Kg	10	8/10/2002
Barium	140	1.5		mg/Kg	10	8/10/2002
Beryllium	ND	1.5		mg/Kg	10	8/10/2002
Cadmium	ND	1.5		mg/Kg	10	8/10/2002
Chromium	10	1.5		mg/Kg	10	8/10/2002
Cobalt	10	1.5		mg/Kg	10	8/10/2002
Copper	25	1.5		mg/Kg	10	8/10/2002
Molybdenum	ND	2.5		mg/Kg	10	8/10/2002
Nickel	10	1.5		mg/Kg	10	8/10/2002
Selenium	ND	2.5		mg/Kg	10	8/10/2002
Silver	ND	1.5		mg/Kg	10	8/10/2002
Thallium	ND	2.5		mg/Kg	10	8/10/2002
Vanadium	45	1.5		mg/Kg	10	8/10/2002
Zinc	85	5.0		mg/Kg	10	8/10/2002
MERCURY BY COLD VAPOR TECHNIQUE (EPA 7471)				EPA 7471A		
RunID: AA1_020809C	QC Batch: 10166					Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1	8/9/2002

Qualifiers:

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Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: 8/19/2002

LEAD BY ATOMIC ABSORPTION
EPA 1311/ 7420

CLIENT:	Ninyo & Moore	**Lab Order:**	057951
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/16/2002 8:00:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057951-006A	570-408-0	ND	mg/L	10347	0.2	1	7/16/2002	8/14/2002
057951-008A	570-408-0.6	ND	mg/L	10347	0.2	1	7/16/2002	8/14/2002
057951-010A	570-408-1.5	ND	mg/L	10347	0.2	1	7/16/2002	8/14/2002
057951-011A	570-409-0	ND	mg/L	10347	0.2	1	7/16/2002	8/14/2002
057951-012A	570-409-0.3	ND	mg/L	10347	0.2	1	7/16/2002	8/14/2002
057951-013A	570-601-0	ND	mg/L	10373	0.2	1	7/16/2002	8/14/2002
057951-017A	570-602-0	0.47	mg/L	10347	0.2	1	7/16/2002	8/14/2002
057951-021A	570-603-0	0.27	mg/L	10347	0.2	1	7/16/2002	8/14/2002
057951-022A	570-603-0.3	1.0	mg/L	10349	0.2	1	7/16/2002	8/14/2002
057951-024A	570-223-0.0	0.23	mg/L	10349	0.2	1	7/16/2002	8/14/2002
057951-026A	570-224-0	0.37	mg/L	10349	0.2	1	7/16/2002	8/14/2002

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Advanced Technology Laboratories

Date: 8/19/2002

LEAD BY ATOMIC ABSORPTION
EPA 1311/ 7420

CLIENT:	Ninyo & Moore	**Lab Order:**	057951
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/16/2002 8:00:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057951-029A	570-225-0	ND	mg/L	10349	0.2	1	7/16/2002	8/14/2002

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Advanced Technology Laboratories

Date: *19-Aug-02*

CLIENT: Ninyo & Moore
Work Order: 057951
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10166

Sample ID: **MB-10166** SampType: **mblk** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809C**
Client ID: **ZZZZZ** Batch ID: **10166** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316736**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: **LCS-10166** SampType: **lcs** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809C**
Client ID: **ZZZZZ** Batch ID: **10166** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316735**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.239	0.10	2.08	0	108	80	120	0	0		

Sample ID: **057974-014AMS** SampType: **MS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809C**
Client ID: **ZZZZZ** Batch ID: **10166** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316733**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.9807	0.10	0.83	0.03978	113	62	146	0	0		

Sample ID: **057974-014AMSD** SampType: **MSD** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809C**
Client ID: **ZZZZZ** Batch ID: **10166** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316734**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.183	0.10	0.83	0.03978	138	62	146	0.9807	18.7	33	

Sample ID: **057974-014ADUP** SampType: **DUP** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809C**
Client ID: **ZZZZZ** Batch ID: **10166** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316732**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.03631	0.10	0	0	0	0	0	0.03978	0	30	J

Qualifiers:
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S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

Advanced Technology Laboratories
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CLIENT: Ninyo & Moore
Work Order: 057951
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10211

Sample ID: **MB-10211** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP2_020810D**
Client ID: **ZZZZZ** Batch ID: **10211** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316604**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.011	0.25									J
Arsenic	ND	0.25									
Barium	0.002	0.15									J
Beryllium	0.011	0.15									J
Cadmium	0.0245	0.15									J
Chromium	ND	0.15									
Cobalt	0.02	0.15									J
Copper	ND	0.15									
Molybdenum	ND	0.25									
Nickel	ND	0.15									
Selenium	ND	0.25									
Silver	0.036	0.15									J
Thallium	0.1145	0.25									J
Vanadium	ND	0.15									
Zinc	0.2355	0.50									J

Sample ID: **LCS-10211** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP2_020810D**
Client ID: **ZZZZZ** Batch ID: **10211** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316590**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	47	0.25	50	0	94	80	120	0	0		
Arsenic	47.5	0.25	50	0	95	80	120	0	0		
Barium	52	0.15	50	0	104	80	120	0	0		
Beryllium	47	0.15	50	0	94	80	120	0	0		
Cadmium	46.5	0.15	50	0	93	80	120	0	0		
Chromium	49.5	0.15	50	0	99	80	120	0	0		
Cobalt	48	0.15	50	0	96	80	120	0	0		
Copper	49.5	0.15	50	0	99	80	120	0	0		
Molybdenum	48.5	0.25	50	0	97	80	120	0	0		
Nickel	46.5	0.15	50	0	93	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; S - Spike/Surrogate outside limits due to matrix interference; B - Analyte detected in the associated Method Blank; **Calculations are based on raw values**; DO - Surrogate diluted out; H - Sample exceeded holding time

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CLIENT: Ninyo & Moore
Work Order: 057951
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10211

Sample ID: **LCS-10211** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP2_020810D**
Client ID: **ZZZZZ** Batch ID: **10211** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316590**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	43.5	0.25	50	0	87	80	120	0	0		
Silver	49	0.15	50	0	98	80	120	0	0		
Thallium	49.5	0.25	50	0	99	80	120	0	0		
Vanadium	48	0.15	50	0	96	80	120	0	0		
Zinc	48.5	0.50	50	0	97	80	120	0	0		

Sample ID: **057974-004AMS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP2_020810D**
Client ID: **ZZZZZ** Batch ID: **10211** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316602**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	65	2.5	125	1.445	50.8	32	115	0	0		
Arsenic	130	2.5	125	10	96	59	111	0	0		
Barium	255	1.5	125	145	88	34	151	0	0		
Beryllium	120	1.5	125	0	96	56	112	0	0		
Cadmium	115	1.5	125	0	92	52	120	0	0		
Chromium	145	1.5	125	20	100	56	118	0	0		
Cobalt	130	1.5	125	10	96	58	117	0	0		
Copper	190	1.5	125	55	108	58	134	0	0		
Molybdenum	120	2.5	125	2.09	94.3	56	115	0	0		
Nickel	135	1.5	125	20	92	52	120	0	0		
Selenium	120	2.5	125	0	96	46	108	0	0		
Silver	120	1.5	125	0.105	95.9	74	117	0	0		
Thallium	125	2.5	125	1.965	98.4	62	117	0	0		
Vanadium	160	1.5	125	45	92	55	122	0	0		
Zinc	405	5.0	125	365	32	43	134	0	0		S

Sample ID: **057974-004AMSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP2_020810D**
Client ID: **ZZZZZ** Batch ID: **10211** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316603**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; S - Spike/Surrogate outside limits due to matrix interference; B - Analyte detected in the associated Method Blank; **Calculations are based on raw values**; DO - Surrogate diluted out; H - Sample exceeded holding time

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Work Order: 057951
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ANALYTICAL QC SUMMARY REPORT

BatchID: 10211

Sample ID: **057974-004AMSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP2_020810D**
Client ID: **ZZZZZ** Batch ID: **10211** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316603**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	70	2.5	125	1.445	54.8	32	115	65	7.41	20	
Arsenic	125	2.5	125	10	92	59	111	130	3.92	20	
Barium	245	1.5	125	145	80	34	151	255	4.00	20	
Beryllium	115	1.5	125	0	92	56	112	120	4.26	20	
Cadmium	110	1.5	125	0	88	52	120	115	4.44	20	
Chromium	135	1.5	125	20	92	56	118	145	7.14	20	
Cobalt	125	1.5	125	10	92	58	117	130	3.92	20	
Copper	170	1.5	125	55	92	58	134	190	11.1	20	
Molybdenum	115	2.5	125	2.09	90.3	56	115	120	4.26	20	
Nickel	135	1.5	125	20	92	52	120	135	0	20	
Selenium	115	2.5	125	0	92	46	108	120	4.26	20	
Silver	115	1.5	125	0.105	91.9	74	117	120	4.26	20	
Thallium	125	2.5	125	1.965	98.4	62	117	125	0	20	
Vanadium	155	1.5	125	45	88	55	122	160	3.17	20	
Zinc	380	5.0	125	365	12	43	134	405	6.37	20	S

Sample ID: **057974-004ADUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP2_020810D**
Client ID: **ZZZZZ** Batch ID: **10211** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316601**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.765	2.5	0	0	0	0	0	1.445	0	30	J
Arsenic	10	2.5	0	0	0	0	0	10	0	30	
Barium	140	1.5	0	0	0	0	0	145	3.51	30	
Beryllium	ND	1.5	0	0	0	0	0	0	0	30	
Cadmium	ND	1.5	0	0	0	0	0	0	0	30	
Chromium	20	1.5	0	0	0	0	0	20	0	30	
Cobalt	10	1.5	0	0	0	0	0	10	0	30	
Copper	55	1.5	0	0	0	0	0	55	0	30	
Molybdenum	2.46	2.5	0	0	0	0	0	2.09	0	30	J
Nickel	20	1.5	0	0	0	0	0	20	0	30	

Qualifiers: ND - Not Detected at the Reporting Limit
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ANALYTICAL QC SUMMARY REPORT

BatchID: 10211

Sample ID: **057974-004ADUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP2_020810D**
Client ID: **ZZZZZ** Batch ID: **10211** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316601**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	ND	2.5	0	0	0	0	0	0	0	30	
Silver	0.24	1.5	0	0	0	0	0	0.105	0	30	J
Thallium	2.23	2.5	0	0	0	0	0	1.965	0	30	J
Vanadium	45	1.5	0	0	0	0	0	45	0	30	
Zinc	295	5.0	0	0	0	0	0	365	21.2	30	

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ANALYTICAL QC SUMMARY REPORT

BatchID: 10347

Sample ID: **MB-10347** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814P**
Client ID: **ZZZZZ** Batch ID: **10347** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **318920**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-10265-TCLP** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814P**
Client ID: **ZZZZZ** Batch ID: **10347** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **318921**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-10347** SampType: **LCS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814P**
Client ID: **ZZZZZ** Batch ID: **10347** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **318935**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.078	0.20	1	0	108	80	120	0	0		

Sample ID: **057951-021AMS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814P**
Client ID: **570-603-0** Batch ID: **10347** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **318933**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.855	0.20	2.5	0.2692	103	80	120	0	0		

Sample ID: **057951-021ADUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814P**
Client ID: **570-603-0** Batch ID: **10347** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **318932**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.2544	0.20	0	0	0	0	0	0.2692	5.66	30	

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ANALYTICAL QC SUMMARY REPORT

BatchID: 10349

Sample ID: **MB-10349** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814Q**
Client ID: **ZZZZZ** Batch ID: **10349** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **318936**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-10266-TCLP** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814Q**
Client ID: **ZZZZZ** Batch ID: **10349** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **318937**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-10349** SampType: **LCS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814Q**
Client ID: **ZZZZZ** Batch ID: **10349** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **318951**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.9993	0.20	1	0	99.9	80	120	0	0		

Sample ID: **057952-045AMS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814Q**
Client ID: **ZZZZZ** Batch ID: **10349** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **318949**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.47	0.20	2.5	0.1749	91.8	80	120	0	0		

Sample ID: **057952-045ADUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814Q**
Client ID: **ZZZZZ** Batch ID: **10349** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **318948**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.1723	0.20	0	0	0	0	0	0.1749	0	30	J

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 10373

Sample ID: **MB-10373** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/14/2002** Run ID: **AA2_020814`**
Client ID: **ZZZZZ** Batch ID: **10373** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **319175**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-10358-TCLP** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/14/2002** Run ID: **AA2_020814`**
Client ID: **ZZZZZ** Batch ID: **10373** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **319176**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.0547	0.20									

Sample ID: **MB-10311-TCLP1** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/14/2002** Run ID: **AA2_020814`**
Client ID: **ZZZZZ** Batch ID: **10373** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **319177**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-10373** SampType: **LCS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/14/2002** Run ID: **AA2_020814`**
Client ID: **ZZZZZ** Batch ID: **10373** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **319188**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.072	0.20	1	0	107	80	120	0	0		

Sample ID: **058341-002AMS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/14/2002** Run ID: **AA2_020814`**
Client ID: **ZZZZZ** Batch ID: **10373** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **319186**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.649	0.20	2.5	0.1465	140	80	120	0	0		S

Qualifiers: ND - Not Detected at the Reporting Limit
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ANALYTICAL QC SUMMARY REPORT

BatchID: 10373

Sample ID: **058341-002ADUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/14/2002** Run ID: **AA2_020814`**
Client ID: **ZZZZZ** Batch ID: **10373** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **319185**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.1148	0.20	0	0	0	0	0	0.1465	0	30	J

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9624

Sample ID: **MB-9624** SampType: **MBLK** TestCode: **6010_W** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718F**
Client ID: **ZZZZZ** Batch ID: **9624** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **301310**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0	0.0050									
Arsenic	0	0.0050									
Barium	0	0.0030									
Beryllium	0	0.0030									
Cadmium	0	0.0030									
Chromium	0	0.0030									
Cobalt	0	0.0030									
Copper	0	0.0030									
Lead	0	0.0050									
Molybdenum	0	0.0050									
Nickel	0	0.0030									
Selenium	0	0.0050									
Silver	0	0.0030									
Thallium	0	0.0050									
Vanadium	0	0.0030									
Zinc	0	0.010									

Sample ID: **LCS-9624** SampType: **LCS** TestCode: **6010_W** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718F**
Client ID: **ZZZZZ** Batch ID: **9624** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **301311**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	1.07	0.0050	1	0	107	80	120	0	0		
Arsenic	1.1	0.0050	1	0	110	80	120	0	0		
Barium	1.07	0.0030	1	0	107	80	120	0	0		
Beryllium	1.08	0.0030	1	0	108	80	120	0	0		
Cadmium	1.03	0.0030	1	0	103	80	120	0	0		
Chromium	1.06	0.0030	1	0	106	80	120	0	0		
Cobalt	1.03	0.0030	1	0	103	80	120	0	0		
Copper	1.04	0.0030	1	0	104	80	120	0	0		
Lead	1.03	0.0050	1	0	103	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike/Surrogate outside limits due to matrix interference; DO - Surrogate diluted out
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9624

Sample ID: **LCS-9624** SampType: **LCS** TestCode: **6010_W** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718F**
Client ID: **ZZZZZ** Batch ID: **9624** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **301311**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	1.08	0.0050	1	0	108	80	120	0	0		
Nickel	1.01	0.0030	1	0	101	80	120	0	0		
Selenium	1.06	0.0050	1	0	106	80	120	0	0		
Silver	1.05	0.0030	1	0	105	80	120	0	0		
Thallium	1.07	0.0050	1	0	107	80	120	0	0		
Vanadium	1.1	0.0030	1	0	110	80	120	0	0		
Zinc	1.03	0.010	1	0	103	80	120	0	0		

Sample ID: **057952-059AMS** SampType: **MS** TestCode: **6010_W** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718F**
Client ID: **ZZZZZ** Batch ID: **9624** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **301314**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	2.57	0.0050	2.5	0	103	69	116	0	0		
Arsenic	2.55	0.0050	2.5	0	102	67	114	0	0		
Barium	2.58	0.0030	2.5	0.00284	103	63	125	0	0		
Beryllium	2.6	0.0030	2.5	0	104	60	117	0	0		
Cadmium	2.47	0.0030	2.5	0	98.8	63	123	0	0		
Chromium	2.58	0.0030	2.5	0	103	68	118	0	0		
Cobalt	2.5	0.0030	2.5	0	100	68	118	0	0		
Copper	2.63	0.0030	2.5	0	105	72	123	0	0		
Lead	2.43	0.0050	2.5	0	97.2	66	118	0	0		
Molybdenum	2.59	0.0050	2.5	0	104	65	111	0	0		
Nickel	2.5	0.0030	2.5	0	100	64	121	0	0		
Selenium	2.56	0.0050	2.5	0	102	62	109	0	0		
Silver	2.55	0.0030	2.5	0	102	71	137	0	0		
Thallium	2.53	0.0050	2.5	0	101	67	122	0	0		
Vanadium	2.61	0.0030	2.5	0.00103	104	69	118	0	0		
Zinc	2.48	0.010	2.5	0.00746	98.9	65	112	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9624

Sample ID: **057952-059AMSD** SampType: **MSD** TestCode: **6010_W** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718F**
Client ID: **ZZZZZ** Batch ID: **9624** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **301315**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	2.36	0.0050	2.5	0	94.4	69	116	2.57	8.52	20	
Arsenic	2.35	0.0050	2.5	0	94	67	114	2.55	8.16	20	
Barium	2.36	0.0030	2.5	0.00284	94.3	63	125	2.58	8.91	20	
Beryllium	2.38	0.0030	2.5	0	95.2	60	117	2.6	8.84	20	
Cadmium	2.26	0.0030	2.5	0	90.4	63	123	2.47	8.88	20	
Chromium	2.35	0.0030	2.5	0	94	68	118	2.58	9.33	20	
Cobalt	2.29	0.0030	2.5	0	91.6	68	118	2.5	8.77	20	
Copper	2.4	0.0030	2.5	0	96	72	123	2.63	9.15	20	
Lead	2.22	0.0050	2.5	0	88.8	66	118	2.43	9.03	20	
Molybdenum	2.37	0.0050	2.5	0	94.8	65	111	2.59	8.87	20	
Nickel	2.27	0.0030	2.5	0	90.8	64	121	2.5	9.64	20	
Selenium	2.36	0.0050	2.5	0	94.4	62	109	2.56	8.13	20	
Silver	2.33	0.0030	2.5	0	93.2	71	137	2.55	9.02	20	
Thallium	2.34	0.0050	2.5	0	93.6	67	122	2.53	7.80	20	
Vanadium	2.39	0.0030	2.5	0.00103	95.6	69	118	2.61	8.80	20	
Zinc	2.27	0.010	2.5	0.00746	90.5	65	112	2.48	8.84	20	

Sample ID: **MB-9624** SampType: **MBLK** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718D**
Client ID: **ZZZZZ** Batch ID: **9624** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **301266**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.0050									

Sample ID: **LCS-9624** SampType: **LCS** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718D**
Client ID: **ZZZZZ** Batch ID: **9624** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **301267**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.03	0.0050	1	0	103	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike/Surrogate outside limits due to matrix interference; DO - Surrogate diluted out
J - Analyte detected below quantitation limits; B - Analyte detected in the associated Method Blank; H - Sample exceeded holding time
R - RPD outside accepted recovery limits; **Calculations are based on raw values**

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ANALYTICAL QC SUMMARY REPORT

BatchID: 9624

Sample ID: **057952-059AMS** SampType: **MS** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718D**
Client ID: **ZZZZZ** Batch ID: **9624** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **301275**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.43	0.0050	2.5	0	97.2	66	118	0	0		

Sample ID: **057952-059ADUP** SampType: **DUP** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718D**
Client ID: **ZZZZZ** Batch ID: **9624** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **301274**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.0050	0	0	0	0	0	0	0	30	

Qualifiers:
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DO - Surrogate diluted out
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BatchID: 9632

Sample ID: **MB-9632A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719L**
Client ID: **ZZZZZ** Batch ID: **9632** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/20/2002** SeqNo: **302321**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **MB-9632B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719L**
Client ID: **ZZZZZ** Batch ID: **9632** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/20/2002** SeqNo: **302322**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-9632** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719L**
Client ID: **ZZZZZ** Batch ID: **9632** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/20/2002** SeqNo: **302320**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	209.5	5.0	250	0	83.8	80	120	0	0		

Sample ID: **057951-003AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719L**
Client ID: **570-501-0.3** Batch ID: **9632** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/20/2002** SeqNo: **302306**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	224.1	5.0	250	19.86	81.7	47	128	0	0		

Sample ID: **057951-013AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719L**
Client ID: **570-601-0** Batch ID: **9632** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/20/2002** SeqNo: **302318**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	723.7	5.0	250	463.6	104	47	128	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

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BatchID: 9632

Sample ID: **057951-003ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719L**
Client ID: **570-501-0.3** Batch ID: **9632** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/20/2002** SeqNo: **302305**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	38.39	5.0	0	0	0	0	0	19.86	63.6	30	R

Sample ID: **057951-013ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719L**
Client ID: **570-601-0** Batch ID: **9632** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/20/2002** SeqNo: **302317**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	480.1	5.0	0	0	0	0	0	463.6	3.49	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9633

Sample ID: **MB-9633A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719M**
Client ID: **ZZZZZ** Batch ID: **9633** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/20/2002** SeqNo: **302349**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **MB-9633B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719M**
Client ID: **ZZZZZ** Batch ID: **9633** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/20/2002** SeqNo: **302350**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-9633** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719M**
Client ID: **ZZZZZ** Batch ID: **9633** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/20/2002** SeqNo: **302348**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	223.4	5.0	250	0	89.4	80	120	0	0		

Sample ID: **057951-023AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719M**
Client ID: **570-603-0.6** Batch ID: **9633** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/20/2002** SeqNo: **302333**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	349.2	5.0	250	172	70.9	47	128	0	0		

Sample ID: **057952-004AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719M**
Client ID: **ZZZZZ** Batch ID: **9633** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/20/2002** SeqNo: **302345**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	203.3	5.0	250	12.11	76.5	47	128	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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Calculations are based on raw values
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9633

Sample ID: **057951-023ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719M**
Client ID: **570-603-0.6** Batch ID: **9633** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/20/2002** SeqNo: **302332**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	139.5	5.0	0	0	0	0	0	172	20.9	30	

Sample ID: **057952-004ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719M**
Client ID: **ZZZZZ** Batch ID: **9633** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/20/2002** SeqNo: **302344**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	12.56	5.0	0	0	0	0	0	12.11	3.64	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9795

Sample ID: **MB-9795** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020726H**
Client ID: **ZZZZZ** Batch ID: **9795** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307147**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9795A** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/23/2002** Run ID: **AA2_020726H**
Client ID: **ZZZZZ** Batch ID: **9795** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307148**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9795B** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/23/2002** Run ID: **AA2_020726H**
Client ID: **ZZZZZ** Batch ID: **9795** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307161**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-9795** SampType: **LCS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020726H**
Client ID: **ZZZZZ** Batch ID: **9795** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307175**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.62	0.20	7.5	0	102	80	120	0	0		

Sample ID: **057951-004AMS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020726H**
Client ID: **570-502-0** Batch ID: **9795** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307160**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.218	0.20	5	2.392	96.5	80	120	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9795

Sample ID: **057951-021AMS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020726H**
Client ID: **570-603-0** Batch ID: **9795** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307173**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	75.1	2.0	50	27.75	94.7	80	120	0	0		

Sample ID: **057951-004ADUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/23/2002** Run ID: **AA2_020726H**
Client ID: **570-502-0** Batch ID: **9795** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307159**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.692	0.20	0	0	0	0	0	2.392	11.8	30	

Sample ID: **057951-021ADUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/23/2002** Run ID: **AA2_020726H**
Client ID: **570-603-0** Batch ID: **9795** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307172**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	28.29	0.80	0	0	0	0	0	27.75	1.90	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9796

Sample ID: **MB-9796** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020726I**
Client ID: **ZZZZZ** Batch ID: **9796** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307406**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9796A** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/23/2002** Run ID: **AA2_020726I**
Client ID: **ZZZZZ** Batch ID: **9796** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307407**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9796B** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/23/2002** Run ID: **AA2_020726I**
Client ID: **ZZZZZ** Batch ID: **9796** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307421**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.07036	0.20									

Sample ID: **LCS-9796** SampType: **LCS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020726I**
Client ID: **ZZZZZ** Batch ID: **9796** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307435**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.131	0.20	7.5	0	95.1	80	120	0	0		

Sample ID: **057952-008AMS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020726I**
Client ID: **ZZZZZ** Batch ID: **9796** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307420**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	16.16	0.40	10	6.857	93	80	120	0	0		

Qualifiers:
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Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

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ANALYTICAL QC SUMMARY REPORT

BatchID: 9796

Sample ID: **057952-046AMS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020726I**
Client ID: **ZZZZZ** Batch ID: **9796** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307433**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.804	0.20	5	1.418	87.7	80	120	0	0		

Sample ID: **057952-008ADUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/23/2002** Run ID: **AA2_020726I**
Client ID: **ZZZZZ** Batch ID: **9796** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307419**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.223	0.20	0	0	0	0	0	6.857	5.19	30	

Sample ID: **057952-046ADUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/23/2002** Run ID: **AA2_020726I**
Client ID: **ZZZZZ** Batch ID: **9796** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307432**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.3069	0.20	0	0	0	0	0	1.418	129	30	R

Qualifiers:
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DO - Surrogate diluted out
H - Sample exceeded holding time

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Ninyo & Moore
Work Order: 057951
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 9956

Sample ID: **MB-9956** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802K**
Client ID: **ZZZZZ** Batch ID: **9956** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312453**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9956A** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020802K**
Client ID: **ZZZZZ** Batch ID: **9956** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312454**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9956B** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020802K**
Client ID: **ZZZZZ** Batch ID: **9956** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312467**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-9956** SampType: **LCS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802K**
Client ID: **ZZZZZ** Batch ID: **9956** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312481**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.494	0.20	7.5	0	99.9	80	120	0	0		

Sample ID: **057951-020AMS** SampType: **MS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802K**
Client ID: **570-602-0.9** Batch ID: **9956** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312466**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.316	0.20	5	0	106	80	120	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

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Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 9956

Sample ID: 057952-017AMS | SampType: MS | TestCode: 7420_DI | Units: mg/L | Prep Date: 8/2/2002 | Run ID: AA2_020802K
Client ID: ZZZZZ | Batch ID: 9956 | TestNo: WET DI/ EPA (WET) | Analysis Date: 8/2/2002 | SeqNo: 312479

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.271	0.20	5	0	105	80	120	0	0		

Sample ID: 057951-020ADUP | SampType: DUP | TestCode: 7420_DI | Units: mg/L | Prep Date: 7/30/2002 | Run ID: AA2_020802K
Client ID: 570-602-0.9 | Batch ID: 9956 | TestNo: WET DI/ EPA (WET) | Analysis Date: 8/2/2002 | SeqNo: 312465

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20	0	0	0	0	0	0	0	30	

Sample ID: 057952-017ADUP | SampType: DUP | TestCode: 7420_DI | Units: mg/L | Prep Date: 7/30/2002 | Run ID: AA2_020802K
Client ID: ZZZZZ | Batch ID: 9956 | TestNo: WET DI/ EPA (WET) | Analysis Date: 8/2/2002 | SeqNo: 312478

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20	0	0	0	0	0	0	0	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

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CLIENT: Ninyo & Moore
Work Order: 057951
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: R19607

Sample ID: **057952-056A-DUP** SampType: **DUP** TestCode: **9045_S** Units: **pH Units** Prep Date: **7/21/2002** Run ID: **WETCHEM_020721C**
Client ID: **ZZZZZ** Batch ID: **R19607** TestNo: **EPA 9045C** Analysis Date: **7/21/2002** SeqNo: **302560**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	6.623	0.10	0	0	0	0	0	6.665	0.632	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

Rachelle

From: Ruth Cheung [rcheung@ninyoandmoore.com]
Sent: Tuesday, August 06, 2002 3:46 PM
To: 'Rachelle'; 'David Shaler (E-mail)'
Subject: Title 22 Metals

Title 22 Metals.xls

Rachelle,
Please run the following samples for Title 22 Metals. Please do not list
Pb in your emailed results. There should be a total of 120 samples to be
run.
Thanks.

Ruth L. Cheung
Staff Environmental Scientist
Ninyo & Moore
(949) 753-7070 x2273

569-102-0.9	570-101-0	571-101-0.9
569-112-0	570-101-0.6	571-104-0
569-201-0	570-201-0	571-201-0.6
569-206-0.6	570-205-0.9	571-108-1.5
569-106-1.5	570-106-0.3	571-111-0.3
569-212-0	570-208-1.5	571-207-0
569-401-0.6	570-111-0.6	571-210-0.6
569-301-0	570-214-0	571-115-0.9
569-303-0.9	570-115-0.3	571-214-0.3
569-404-0.6	570-119-0.9	571-120-0
569-408-0.9	570-224-0.6	571-217-1.5
569-314-0	570-401-0	571-220-0.6
569-313-0.3	570-401-0.3	571-301-0.3
569-502-0.6	570-304-1.5	571-405-0
569-602-1.5	570-307-0.9	571-306-0.9
569-607-0.3	570-311-0.6	571-407-0
569-607-0	570-312-0.6	571-310-0.9
569-508-0.9	570-316-0.3	571-315-0.3
569-511-0.6	570-601-0	571-412-1.5
569-612-1.5	570-505-1.5	571-317-0
569-516-0	570-508-0	571-320-0.6
569-801-0.3	570-610-0.6	571-416-0.9
569-519-0.6	570-511-0.9	571-325-0.3
569-803-0.9	570-615-0	571-421-1.5
569-705-0	570-514-0.3	571-425-0
569-806-1.5	570-517-0	571-501-0.6
569-708-0.3	570-618-0.6	571-503-0.9
569-711-0	570-621-1.5	571-603-0.3
569-811-0	570-703-0.9	571-507-0
	570-804-0	571-609-0
	570-706-0	571-510-1.5
	570-709-0	571-611-0
	570-808-0.6	571-514-0
	570-711-1.5	571-614-0.3
	570-812-0.3	571-517-0.9
		571-617-0.6
		571-520-1.5
		571-621-0.3
		571-524-0
		571-624-0.9
		571-529-0.3
		571-628-0.6
		571-703-1.5
		571-707-0
		571-804-0.9
		571-809-0.3
		571-711-0
		571-712-0
		571-814-0.3
		571-818-0.6
		571-819-0
		571-827-1.5

571-832-0.9
571-836-0.3
571-837-0.6
571-842-0

Rachelle

From: Ruth Cheung [rcheung@ninyoandmoore.com]
Sent: Thursday, August 08, 2002 9:14 AM
To: 'Rachelle'
Subject: TCLP Analysis

TCLP-3.xls

In addition to the 90 TCLP already run please run the following samples for
TCLP. There should be a list of 350 samples.
Thanks for a the hard work and timely results.

Ruth L. Cheung
Staff Environmental Scientist
Ninyo & Moore
(949) 753-7070 x2273

-----Original Message-----
From: Rachelle [SMTP:Rachelle@ATLGlobal.com]
Sent: Wednesday, August 07, 2002 5:02 PM
To: 'David Shaler (E-mail)'
Cc: 'Ruth Cheung (E-mail)'
Subject: TCLP Results

<<57931TCLP.xls>> <<58001TCLP.xls>> <<58021TCLP.xls>>
<<58022TCLP.xls>>
<<58023TCLP.xls>> <<58024TCLP.xls>> <<58049TCLP.xls>>
<<58050TCLP.xls>>
<<58052TCLP.xls>> <<58053TCLP.xls>> <<58065TCLP.xls>>
<<58066TCLP.xls>>
<<58067TCLP.xls>> <<58068TCLP.xls>> <<58069TCLP.xls>>

Rachelle Arada
Project Coordinator
www.atlglobal.com
voice: 562.989.4045 ext 237
fax : 562.989.4040

<< File: 57931TCLP.xls >> << File: 58001TCLP.xls >> << File: 58021TCLP.xls >> << File: 58022TCLP.xls >> << File: 58023TCLP.xls >> << File: 58024TCLP.xls >> << File: 58049TCLP.xls >> << File: 58050TCLP.xls >> << File: 58052TCLP.xls >> << File: 58053TCLP.xls >> << File: 58065TCLP.xls >> << File: 58066TCLP.xls >> << File: 58067TCLP.xls >> << File: 58068TCLP.xls >> << File: 58069TCLP.xls >>

569-404-0	2. STLC	170
569-402-0	2. STLC	130
569-406-0	2. STLC	120
569-515-0	2. STLC	110
569-611-0	2. STLC	100
569-409-0	2. STLC	94
569-603-0	2. STLC	93
569-104-0.6	2. STLC	91
569-807-0	2. STLC	86
569-608-0	2. STLC	86
569-501-0	2. STLC	84
569-710-0.3	2. STLC	83
569-808-0	2. STLC	83
569-609-0.6	2. STLC	80
569-803-0	2. STLC	79
569-105-0	2. STLC	78
569-512-0	2. STLC	77
569-513-0	2. STLC	77
569-302-0	2. STLC	74
569-805-0	2. STLC	73
569-517-0	2. STLC	71
569-704-0.3	2. STLC	71
569-703-0.6	2. STLC	70
569-514-0.3	2. STLC	70
569-803-0.3	2. STLC	69
569-409-0.6	2. STLC	69
569-411-0	2. STLC	68
569-102-0.6	2. STLC	68
569-809-0	2. STLC	65
569-605-0	2. STLC	65
569-711-0.6	2. STLC	62
569-806-0	2. STLC	60
569-802-0.3	2. STLC	60
569-410-0	2. STLC	59
569-501-0.6	2. STLC	58
569-808-0.3	2. STLC	58
569-104-0	2. STLC	56
569-804-0	2. STLC	54
569-610-0	2. STLC	54
569-608-0.3	2. STLC	53
569-213-0	2. STLC	49
569-701-0	2. STLC	47
569-311-0	2. STLC	47
569-609-0.9	2. STLC	46
569-513-0.3	2. STLC	45
569-801-0.6	2. STLC	44
569-514-0	2. STLC	42
569-805-0.6	2. STLC	42
569-408-1.5	2. STLC	42
569-807-0.3	2. STLC	40
569-204-0	2. STLC	40
569-517-0.3	2. STLC	36
569-518-0	2. STLC	36
569-806-0.3	2. STLC	36
569-705-1.5	2. STLC	35
569-303-0.6	2. STLC	34
569-516-0.3	2. STLC	33
569-705-0.6	2. STLC	33
569-802-0	2. STLC	33
569-515-0.6	2. STLC	32
569-704-0	2. STLC	32
569-401-0.3	2. STLC	32
569-207-0	2. STLC	32
569-608-0.6	2. STLC	31
569-104-0.3	2. STLC	31
569-201-0.6	2. STLC	30
569-515-0.3	2. STLC	28
569-212-0.6	2. STLC	28
569-103-0	2. STLC	28
569-313-0	2. STLC	27
569-103-0.3	2. STLC	26
569-705-0.9	2. STLC	25
569-707-0.3	2. STLC	25
569-515-1.5	2. STLC	24
569-508-0	2. STLC	24
569-801-0	2. STLC	24
569-402-0.6	2. STLC	24
569-516-0.6	2. STLC	22
569-509-0.3	2. STLC	22
569-106-0	2. STLC	22
569-106-0.3	2. STLC	22
569-202-0	2. STLC	21
569-805-1.5	2. STLC	21
569-205-0	2. STLC	20
569-707-0	2. STLC	19

570-515-0.3	2. STLC	120
570-811-0	2. STLC	110
570-114-0.0	2. STLC	110
570-504-0.6	2. STLC	100
570-811-1.5	2. STLC	90
570-615-0.6	2. STLC	84
570-305-0	2. STLC	79
570-314-0.6	2. STLC	76
570-505-0.6	2. STLC	75
570-208-0.6	2. STLC	74
570-116-0.0	2. STLC	73
570-102-0	2. STLC	65
570-804-0.6	2. STLC	64
570-704-0	2. STLC	63
570-508-0.6	2. STLC	60
570-706-0.3	2. STLC	60
570-303-0	2. STLC	58
570-311-1.5	2. STLC	58
570-117-0.0	2. STLC	58
570-208-0.3	2. STLC	58
570-709-0.6	2. STLC	57
570-703-0	2. STLC	55
570-206-0	2. STLC	54
570-301-0	2. STLC	53
570-603-0.3	2. STLC	46
570-711-0.6	2. STLC	46
570-206-0.3	2. STLC	45
570-103-0	2. STLC	44
570-602-0	2. STLC	41
570-209-0	2. STLC	40
570-210-0	2. STLC	40
570-117-0.3	2. STLC	39
570-103-0.6	2. STLC	37
570-110-0.6	2. STLC	37
570-805-0.9	2. STLC	36
570-112-1.5	2. STLC	35
570-614-0	2. STLC	34
570-713-0.3	2. STLC	33
570-513-0	2. STLC	32
570-312-0.3	2. STLC	31
570-503-0.6	2. STLC	31
570-510-0.6	2. STLC	31
570-202-0	2. STLC	31
570-207-0	2. STLC	31
570-209-0.3	2. STLC	31
570-703-0.3	2. STLC	30
570-401-0	2. STLC	30
570-610-0.9	2. STLC	29
570-809-0.6	2. STLC	29
570-509-0.9	2. STLC	29
570-210-0.6	2. STLC	29
570-211-0	2. STLC	29
570-603-0	2. STLC	28
570-119-0	2. STLC	28
570-713-0.6	2. STLC	28
570-108-0	2. STLC	27
570-708-0.6	2. STLC	27
570-224-0	2. STLC	26
570-601-0	2. STLC	26
570-710-0.6	2. STLC	26
570-614-0.6	2. STLC	26
570-118-0.3	2. STLC	26
570-304-0	2. STLC	25
570-707-0.6	2. STLC	25
570-510-0	2. STLC	25
570-110-0	2. STLC	24
570-223-0	2. STLC	24
570-117-0.6	2. STLC	24
570-616-0	2. STLC	23
570-704-0.3	2. STLC	22
570-513-0.6	2. STLC	22
570-221-0.0	2. STLC	22
570-617-0	2. STLC	21
570-214-0.3	2. STLC	21
570-122-0.9	2. STLC	20
570-313-0.6	2. STLC	19
570-207-0.6	2. STLC	19
570-120-0.9	2. STLC	18
570-506-0	2. STLC	18
570-102-0.9	2. STLC	17
570-216-0	2. STLC	17
570-225-0	2. STLC	17
570-304-0.3	2. STLC	17
570-409-0	2. STLC	17
570-713-0	2. STLC	17

571-521-0	2. STLC	230
571-324-0.9	2. STLC	110
571-818-0	2. STLC	110
571-819-0.6	2. STLC	110
571-708-0	2. STLC	110
571-103-0.6	2. STLC	110
571-617-0.3	2. STLC	100
571-611-0.6	2. STLC	92
571-712-0.9	2. STLC	81
571-105-0.6	2. STLC	81
571-313-0	2. STLC	79
571-508-0	2. STLC	73
571-518-0.3	2. STLC	73
571-217-0	2. STLC	68
571-516-0	2. STLC	66
571-701-0.3	2. STLC	66
571-710-0.6	2. STLC	65
571-512-0	2. STLC	64
571-308-0.9	2. STLC	61
571-701-0	2. STLC	61
571-514-0.3	2. STLC	59
571-415-0	2. STLC	58
571-616-0.6	2. STLC	57
571-517-0	2. STLC	56
571-112-0.9	2. STLC	56
571-214-0	2. STLC	55
571-415-0.3	2. STLC	55
571-405-0.6	2. STLC	55
571-530-0	2. STLC	55
571-831-0	2. STLC	53
571-709-0	2. STLC	53
571-103-0.0	2. STLC	52
571-312-0	2. STLC	51
571-526-0	2. STLC	51
571-819-1.5	2. STLC	51
571-515-0	2. STLC	50
571-833-0	2. STLC	49
571-815-0.6	2. STLC	47
571-517-0.3	2. STLC	46
571-610-0	2. STLC	46
571-413-0	2. STLC	46
571-815-0	2. STLC	45
571-514-0.9	2. STLC	44
571-505-1.5	2. STLC	44
571-528-0	2. STLC	44
571-610-0.6	2. STLC	43
571-629-0	2. STLC	43
571-604-0	2. STLC	42
571-213-0	2. STLC	41
571-812-0	2. STLC	41
571-706-0	2. STLC	41
571-530-0.6	2. STLC	41
571-305-0	2. STLC	40
571-523-0.3	2. STLC	39
571-510-0	2. STLC	39
571-305-0.9	2. STLC	39
571-818-1.5	2. STLC	39
571-703-0	2. STLC	38
571-520-0.3	2. STLC	36
571-216-0	2. STLC	34
571-827-0	2. STLC	34
571-708-0.3	2. STLC	34
571-514-0.6	2. STLC	33
571-528-1.5	2. STLC	33
571-803-0	2. STLC	33
571-414-0.3	2. STLC	33
571-813-0.3	2. STLC	32
571-523-0	2. STLC	31
571-326-0	2. STLC	31
571-502-0.6	2. STLC	31
571-624-1.5	2. STLC	31
571-330-0	2. STLC	31
571-512-0.3	2. STLC	30
571-521-0.6	2. STLC	29
571-706-0.3	2. STLC	29
571-814-0.6	2. STLC	28
571-616-1.5	2. STLC	28
571-835-0	2. STLC	28
571-811-0.3	2. STLC	28
571-101-0.6	2. STLC	28
571-112-0	2. STLC	28
571-315-0	2. STLC	27
571-622-0	2. STLC	27
571-607-0.6	2. STLC	27
571-609-0.6	2. STLC	27

569-709-0	2. STLC	19
569-202-0.3	2. STLC	19
569-602-0	2. STLC	19
569-207-0.3	2. STLC	19
569-706-0.3	2. STLC	17
569-807-0.9	2. STLC	17
569-104-0.9	2. STLC	17
569-505-0.6	2. STLC	17
569-704-0.6	2. STLC	16
569-808-0.6	2. STLC	16
569-212-0.3	2. STLC	16
569-612-0	2. STLC	16
569-704-1.5	2. STLC	15
569-411-0.3	2. STLC	15
569-113-0	2. STLC	15
569-807-0.6	2. STLC	14
569-311-0.3	2. STLC	12
569-312-0	2. STLC	10
569-311-0.9	2. STLC	8.3

104

570-401-0.3	2. STLC	17
570-616-0.6	2. STLC	17
570-308-0	2. STLC	16
570-807-0.9	2. STLC	16
570-701-0.6	2. STLC	16
570-617-0.3	2. STLC	16
570-107-0.6	2. STLC	15
570-811-0.6	2. STLC	15
570-707-0	2. STLC	15
570-518-0	2. STLC	15
570-111-0.0	2. STLC	15
570-109-0.6	2. STLC	14
570-401-0.9	2. STLC	4.1
570-408-0	2. STLC	4
570-409-0.3	2. STLC	3
570-401-0.6		0
570-401-1.5		0
570-408-0.6		0
570-408-1.5		0

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571-837-0.3	2. STLC	27
571-520-0	2. STLC	26
571-516-0.3	2. STLC	26
571-420-0	2. STLC	26
571-102-0.6	2. STLC	26
571-517-1.5	2. STLC	25
571-513-0.6	2. STLC	25
571-623-0.6	2. STLC	25
571-112-0.3	2. STLC	25
571-326-0.6	2. STLC	24
571-619-0.3	2. STLC	24
571-619-0.9	2. STLC	24
571-528-0.3	2. STLC	24
571-706-0.6	2. STLC	24
571-112-0.6	2. STLC	24
571-327-0.6	2. STLC	23
571-817-0	2. STLC	23
571-425-0.6	2. STLC	22
571-118-0	2. STLC	22
571-829-0	2. STLC	22
571-828-0	2. STLC	22
571-122-0	2. STLC	21
571-101-1.5	2. STLC	21
571-530-0.3	2. STLC	21
571-406-0.6	2. STLC	20
571-517-0.6	2. STLC	20
571-835-0.3	2. STLC	20
571-501-0	2. STLC	20
571-518-0.9	2. STLC	19
571-510-0.3	2. STLC	19
571-814-0.9	2. STLC	19
571-522-0.6	2. STLC	19
571-622-1.5	2. STLC	19
571-812-0.6	2. STLC	19
571-701-0.6	2. STLC	19
571-704-0	2. STLC	19
571-711-0.6	2. STLC	19
571-212-0	2. STLC	18
571-839-0.6	2. STLC	18
571-610-1.5	2. STLC	18
571-709-0.3	2. STLC	18
571-311-0.6	2. STLC	17
571-620-0	2. STLC	17
571-109-0	2. STLC	17
571-704-0.3	2. STLC	17
571-207-1.5	2. STLC	16
571-203-0	2. STLC	16
571-616-0.3	2. STLC	16
571-317-0.3	2. STLC	16
571-629-0.3	2. STLC	16
571-416-0	2. STLC	15
571-419-0	2. STLC	15
571-526-0.3	2. STLC	15
571-619-0	2. STLC	15
571-606-0	2. STLC	15
571-115-0.6	2. STLC	14
571-202-0.9	2. STLC	11

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Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

tblTEMP

WorkOrder	ClientSampID	TestNo	Analyte	PQL	DF	CollectionDate	AnalDate	PrepDate
057951	570-223-0.0	EPA 1311/ 7420	Lead	0.2	1	7/16/2002	8/14/2002	8/13/2002
057951	570-223-0.0	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057951	570-223-0.0	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057951	570-223-0.0	WET/ EPA 7420	Lead	0.8	4	7/16/2002	7/26/2002	7/23/2002
057951	570-223-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057951	570-223-0.3	WET/ EPA 7420	Lead	0.2	1	7/16/2002	7/26/2002	7/23/2002
057951	570-224-0	EPA 1311/ 7420	Lead	0.2	1	7/16/2002	8/14/2002	8/13/2002
057951	570-224-0	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057951	570-224-0	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057951	570-224-0	WET/ EPA 7420	Lead	0.8	4	7/16/2002	7/26/2002	7/23/2002
057951	570-224-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057951	570-224-0.6	EPA 6010B	Antimony	2.5	10	7/16/2002	8/10/2002	8/8/2002
057951	570-224-0.6	EPA 6010B	Arsenic	2.5	10	7/16/2002	8/10/2002	8/8/2002
057951	570-224-0.6	EPA 6010B	Barium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057951	570-224-0.6	EPA 6010B	Beryllium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057951	570-224-0.6	EPA 6010B	Cadmium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057951	570-224-0.6	EPA 6010B	Chromium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057951	570-224-0.6	EPA 6010B	Cobalt	1.5	10	7/16/2002	8/10/2002	8/8/2002
057951	570-224-0.6	EPA 6010B	Copper	1.5	10	7/16/2002	8/10/2002	8/8/2002
057951	570-224-0.6	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057951	570-224-0.6	EPA 6010B	Molybdenum	2.5	10	7/16/2002	8/10/2002	8/8/2002
057951	570-224-0.6	EPA 6010B	Nickel	1.5	10	7/16/2002	8/10/2002	8/8/2002
057951	570-224-0.6	EPA 6010B	Selenium	2.5	10	7/16/2002	8/10/2002	8/8/2002
057951	570-224-0.6	EPA 6010B	Silver	1.5	10	7/16/2002	8/10/2002	8/8/2002
057951	570-224-0.6	EPA 6010B	Thallium	2.5	10	7/16/2002	8/10/2002	8/8/2002
057951	570-224-0.6	EPA 6010B	Vanadium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057951	570-224-0.6	EPA 6010B	Zinc	5	10	7/16/2002	8/10/2002	8/8/2002
057951	570-224-0.6	EPA 7471A	Mercury	0.1	1	7/16/2002	8/9/2002	8/7/2002
057951	570-225-0	EPA 1311/ 7420	Lead	0.2	1	7/16/2002	8/14/2002	8/13/2002
057951	570-225-0	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057951	570-225-0	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057951	570-225-0	WET/ EPA 7420	Lead	0.4	2	7/16/2002	7/26/2002	7/23/2002
057951	570-225-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057951	570-225-0.3	WET/ EPA 7420	Lead	0.2	1	7/16/2002	7/26/2002	7/23/2002
057951	570-408-0	EPA 1311/ 7420	Lead	0.2	1	7/16/2002	8/14/2002	8/13/2002

057951	570-408-0	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057951	570-408-0	WET/ EPA 7420	Lead	0.2	1	7/16/2002	7/26/2002	7/23/2002
057951	570-408-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057951	570-408-0.6	EPA 1311/ 7420	Lead	0.2	1	7/16/2002	8/14/2002	8/13/2002
057951	570-408-0.6	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057951	570-408-0.9	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057951	570-408-1.5	EPA 1311/ 7420	Lead	0.2	1	7/16/2002	8/14/2002	8/13/2002
057951	570-408-1.5	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057951	570-409-0	EPA 1311/ 7420	Lead	0.2	1	7/16/2002	8/14/2002	8/13/2002
057951	570-409-0	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057951	570-409-0	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057951	570-409-0	WET/ EPA 7420	Lead	0.4	2	7/16/2002	7/26/2002	7/23/2002
057951	570-409-0.3	EPA 1311/ 7420	Lead	0.2	1	7/16/2002	8/14/2002	8/13/2002
057951	570-409-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057951	570-409-0.3	WET/ EPA 7420	Lead	0.2	1	7/16/2002	7/26/2002	7/23/2002
057951	570-501-0	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057951	570-501-0	EPA 9045C	pH	0.1	1	7/16/2002	7/21/2002	7/21/2002
057951	570-501-0	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057951	570-501-0	WET/ EPA 7420	Lead	0.2	1	7/16/2002	7/26/2002	7/23/2002
057951	570-501-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057951	570-502-0	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057951	570-502-0	WET/ EPA 7420	Lead	0.2	1	7/16/2002	7/26/2002	7/23/2002
057951	570-502-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057951	570-601-0	EPA 1311/ 7420	Lead	0.2	1	7/16/2002	8/14/2002	8/14/2002
057951	570-601-0	EPA 6010B	Antimony	2.5	10	7/16/2002	8/10/2002	8/8/2002
057951	570-601-0	EPA 6010B	Arsenic	2.5	10	7/16/2002	8/10/2002	8/8/2002
057951	570-601-0	EPA 6010B	Barium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057951	570-601-0	EPA 6010B	Beryllium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057951	570-601-0	EPA 6010B	Cadmium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057951	570-601-0	EPA 6010B	Chromium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057951	570-601-0	EPA 6010B	Cobalt	1.5	10	7/16/2002	8/10/2002	8/8/2002
057951	570-601-0	EPA 6010B	Copper	1.5	10	7/16/2002	8/10/2002	8/8/2002
057951	570-601-0	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057951	570-601-0	EPA 6010B	Molybdenum	2.5	10	7/16/2002	8/10/2002	8/8/2002
057951	570-601-0	EPA 6010B	Nickel	1.5	10	7/16/2002	8/10/2002	8/8/2002
057951	570-601-0	EPA 6010B	Selenium	2.5	10	7/16/2002	8/10/2002	8/8/2002

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057951	570-601-0	EPA 6010B	Silver	1.5	10	7/16/2002	8/10/2002	8/8/2002
057951	570-601-0	EPA 6010B	Thallium	2.5	10	7/16/2002	8/10/2002	8/8/2002
057951	570-601-0	EPA 6010B	Vanadium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057951	570-601-0	EPA 6010B	Zinc	5	10	7/16/2002	8/10/2002	8/8/2002
057951	570-601-0	EPA 7471A	Mercury	0.1	1	7/16/2002	8/9/2002	8/7/2002
057951	570-601-0	EPA 9045C	pH	0.1	1	7/16/2002	7/21/2002	7/21/2002
057951	570-601-0	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057951	570-601-0	WET/ EPA 7420	Lead	0.8	4	7/16/2002	7/26/2002	7/23/2002
057951	570-601-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057951	570-601-0.6	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057951	570-601-0.9	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057951	570-601-0.9	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057951	570-601-0.9	WET/ EPA 7420	Lead	0.2	1	7/16/2002	7/26/2002	7/23/2002
057951	570-602-0	EPA 1311/ 7420	Lead	0.2	1	7/16/2002	8/14/2002	8/13/2002
057951	570-602-0	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057951	570-602-0	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057951	570-602-0	WET/ EPA 7420	Lead	2	10	7/16/2002	7/26/2002	7/23/2002
057951	570-602-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057951	570-602-0.3	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057951	570-602-0.3	WET/ EPA 7420	Lead	0.2	1	7/16/2002	7/26/2002	7/23/2002
057951	570-602-0.6	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057951	570-602-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057951	570-602-0.6	WET/ EPA 7420	Lead	0.2	1	7/16/2002	7/26/2002	7/23/2002
057951	570-602-0.9	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057951	570-602-0.9	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057951	570-602-0.9	WET/ EPA 7420	Lead	0.2	1	7/16/2002	7/26/2002	7/23/2002
057951	570-603-0	EPA 1311/ 7420	Lead	0.2	1	7/16/2002	8/14/2002	8/13/2002
057951	570-603-0	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057951	570-603-0	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057951	570-603-0	WET/ EPA 7420	Lead	0.8	4	7/16/2002	7/26/2002	7/23/2002
057951	570-603-0.3	EPA 1311/ 7420	Lead	0.2	1	7/16/2002	8/14/2002	8/13/2002
057951	570-603-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057951	570-603-0.3	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057951	570-603-0.3	WET/ EPA 7420	Lead	2	10	7/16/2002	7/26/2002	7/23/2002
057951	570-603-0.6	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057951	570-603-0.6	EPA 9045C	pH	0.1	1	7/16/2002	7/21/2002	7/21/2002

057951	570-603-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057951	570-603-0.6	WET/ EPA 7420	Lead	0.2	1	7/16/2002	7/26/2002	7/23/2002
057951	EB-8	EPA 6010B	Lead	0.005	1	7/16/2002	7/18/2002	7/17/2002

Advanced Technology Laboratories
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August 19, 2002

David Shaler
Ninyo & Moore
475 Goddard Suite 200
Irvine, CA 92618
TEL: (949) 753-7070
FAX: (949) 753-7071

ELAP No.: 1838
NELAP No.: 02107CA
Workorder No.: 057948

RE: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

Attention: David Shaler

Enclosed are the results for sample(s) received on July 16, 2002 by Advanced Technology Laboratories and tested for the parameters indicated in the enclosed chain of custody.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

for

Eddie F. Rodriguez
Laboratory Director

RECEIVED
AUG 2 6 2002
NINYO & MOORE
ORANGE COUNTY OFFICE

This cover letter is an integral part of this analytical report.

Laboratory	Site	Consultant
Advanced Technology Laboratories	Caltrans/I-10 (605-57)/Lead Survey	Ninyo & Moore - David Shaler/Steve Reese
3275 Walnut Avenue, Signal Hill, CA 90807	TO 07-117070-PX	475 Goddard, Suite 200, Irvine, CA 92618
Tel. (562) 989-4045 Fax (562) 989-6348	Project # 203939001	Tel. (949) 753-7070 Fax (949) 753-7071

Special Instructions
See Project specifications. 5 Day TAT.

Relinquished by: (name/date/time) 7-16-02
Received by: (name/date/time) 7-16-02 4:10
Relinquished by: (name/date/time) 7-16-02 8:00pm
Received by: (name/date/time) 7/16/02 8:00pm

Lab No	Sample I.D	Date	Time	Sample container P=plastic B=brass	Analyses: Total Lead EPA Method 6010	Analyses: pH EPA Method 9045
	EB-5	7/16/02	3:23	P	X	
	570-227-0		9:10	B	X	X
	570-227-0.3		9:14		X	
	570-401-0		9:25		X	
	570-401-0.3		9:30		X	
	570-401-0.6		9:36		X	
	570-401-0.9		9:39		X	
	570-401-1.5		9:42		X	
	570-617-0		10:25		X	
	570-617-0.3		10:30		X	
	570-617-0.6		10:35		X	
	570-618-0		10:37		X	
	570-618-0.3		10:40		X	X
	570-618-0.6		10:42		X	
	570-618-0.9		10:45		X	
	570-618-1.5		10:48		X	
	570-619-0		10:53		X	
	570-619-0.3		10:54		X	
	570-619-0.6		10:59		X	
	570-619-0.9		11:03		X	
	570-619-1.5		11:06		X	
	570-620-0		10:58		X	
	570-620-0.3		11:00		X	
	570-621-0		11:25		X	X
	570-621-0.3		11:29		X	
	570-621-0.6		11:31		X	
	570-801-0		11:26		X	
	570-801-0.3		11:29		X	
	570-801-0.6		11:33		X	
	570-801-0.9		11:37		X	
	570-801-1.5		11:40		X	
	570-802-0		11:56		X	
	570-802-0.3		11:59		X	
	570-802-0.6		12:02		X	
	570-802-0.9		12:06		X	X
	570-613-0.6		14:24		X	
	570-613-0.9		14:26		X	
	570-614-0		14:35		X	
	570-614-0.3		14:37		X	
	570-614-0.6		14:38		X	
	570-614-0.9		14:40		X	
	570-614-1.5		14:44		X	
	570-615-0		14:55		X	
	570-615-0.3		14:57		X	
	570-615-0.6		14:58		X	X
	570-615-0.9		15:00		X	
	570-615-1.5		15:01		X	
	570-616-0		15:07		X	
	570-616-0.3		15:08		X	
	570-616-0.6		15:15		X	
	570-616-0.9		15:18		X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	
	570-				X	

Total # of samples: 51

Advanced Technology Laboratories

Date: *22-Jul-02*

CLIENT: Ninyo & Moore
Lab Order: 057948
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Lab ID: 057948-001A

Client Sample ID: EB-5
Collection Date: 7/16/2002 3:23:00 PM
Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
LEAD BY ICP	**(EPA 3010A)**			**EPA 6010B**		
RunID: ICP2_020718D	QC Batch: 9624					Analyst: **RQ**
Lead	ND	0.0050		mg/L	1	7/18/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
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Advanced Technology Laboratories

Date: 7/22/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057948
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/16/2002 8:00:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057948-002A	570-227-0	48	mg/Kg	9625	5	1	7/16/2002	7/18/2002
057948-003A	570-227-0.3	68	mg/Kg	9625	5	1	7/16/2002	7/18/2002
057948-004A	570-401-0	400	mg/Kg	9625	5	1	7/16/2002	7/18/2002
057948-005A	570-401-0.3	240	mg/Kg	9625	5	1	7/16/2002	7/18/2002
057948-006A	570-401-0.6	40	mg/Kg	9625	5	1	7/16/2002	7/18/2002
057948-007A	570-401-0.9	99	mg/Kg	9626	5	1	7/16/2002	7/18/2002
057948-008A	570-401-1.5	49	mg/Kg	9626	5	1	7/16/2002	7/18/2002
057948-009A	570-617-0	300	mg/Kg	9626	5	1	7/16/2002	7/18/2002
057948-010A	570-617-0.3	260	mg/Kg	9626	5	1	7/16/2002	7/18/2002
057948-011A	570-617-0.6	34	mg/Kg	9626	5	1	7/16/2002	7/18/2002
057948-012A	570-618-0	150	mg/Kg	9626	5	1	7/16/2002	7/18/2002

Qualifiers:

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DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
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Results are wet unless otherwise specified

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3275 Walnut Avenue, Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: 7/22/2002

LEAD BY ICP
EPA 6010B

CLIENT: Ninyo & Moore
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Project No:
PO No:

Lab Order: 057948
Date Received: 7/16/2002 8:00:0
Matrix: Soil
Analyst: RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057948-013A	570-618-0.3	41	mg/Kg	9626	5	1	7/16/2002	7/18/2002
057948-014A	570-618-0.6	7.0	mg/Kg	9626	5	1	7/16/2002	7/18/2002
057948-015A	570-618-0.9	6.5	mg/Kg	9626	5	1	7/16/2002	7/18/2002
057948-016A	570-618-1.5	5.8	mg/Kg	9626	5	1	7/16/2002	7/18/2002
057948-017A	570-619-0	68	mg/Kg	9626	5	1	7/16/2002	7/18/2002
057948-018A	570-619-0.3	15	mg/Kg	9626	5	1	7/16/2002	7/18/2002
057948-019A	570-619-0.6	6.1	mg/Kg	9626	5	1	7/16/2002	7/18/2002
057948-020A	570-619-0.9	7.8	mg/Kg	9626	5	1	7/16/2002	7/18/2002
057948-021A	570-619-1.5	7.2	mg/Kg	9626	5	1	7/16/2002	7/18/2002
057948-022A	570-620-0	74	mg/Kg	9626	5	1	7/16/2002	7/18/2002
057948-023A	570-620-0.3	37	mg/Kg	9626	5	1	7/16/2002	7/18/2002

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Advanced Technology Laboratories

Date: 7/22/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057948
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/16/2002 8:00:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057948-024A	570-621-0	69	mg/Kg	9626	5	1	7/16/2002	7/18/2002
057948-025A	570-621-0.3	23	mg/Kg	9626	5	1	7/16/2002	7/18/2002
057948-026A	570-621-0.6	11	mg/Kg	9626	5	1	7/16/2002	7/18/2002
057948-027A	570-801-0	44	mg/Kg	9627	5	1	7/16/2002	7/18/2002
057948-028A	570-801-0.3	13	mg/Kg	9627	5	1	7/16/2002	7/18/2002
057948-029A	570-801-0.6	14	mg/Kg	9627	5	1	7/16/2002	7/18/2002
057948-030A	570-801-0.9	36	mg/Kg	9627	5	1	7/16/2002	7/18/2002
057948-031A	570-801-1.5	9.9	mg/Kg	9627	5	1	7/16/2002	7/18/2002
057948-032A	570-802-0	63	mg/Kg	9627	5	1	7/16/2002	7/18/2002
057948-033A	570-802-0.3	22	mg/Kg	9627	5	1	7/16/2002	7/18/2002
057948-034A	570-802-0.6	39	mg/Kg	9627	5	1	7/16/2002	7/18/2002

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Advanced Technology Laboratories

Date: 7/22/2002

LEAD BY ICP
EPA 6010B

CLIENT: Ninyo & Moore
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Project No:
PO No:

Lab Order: 057948
Date Received: 7/16/2002 8:00:0
Matrix: Soil
Analyst: RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057948-035A	570-802-0.9	33	mg/Kg	9627	5	1	7/16/2002	7/18/2002
057948-036A	570-613-0.6	83	mg/Kg	9627	5	1	7/16/2002	7/18/2002
057948-037A	570-613-0.9	20	mg/Kg	9627	5	1	7/16/2002	7/18/2002
057948-038A	570-614-0	260	mg/Kg	9627	5	1	7/16/2002	7/18/2002
057948-039A	570-614-0.3	270	mg/Kg	9627	5	1	7/16/2002	7/18/2002
057948-040A	570-614-0.6	260	mg/Kg	9627	5	1	7/16/2002	7/18/2002
057948-041A	570-614-0.9	5.1	mg/Kg	9627	5	1	7/16/2002	7/18/2002
057948-042A	570-614-1.5	5.6	mg/Kg	9627	5	1	7/16/2002	7/18/2002
057948-043A	570-615-0	1100	mg/Kg	9627	5	1	7/16/2002	7/18/2002
057948-044A	570-615-0.3	5.6	mg/Kg	9627	5	1	7/16/2002	7/18/2002
057948-045A	570-615-0.6	920	mg/Kg	9627	5	1	7/16/2002	7/18/2002

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Advanced Technology Laboratories

Date: 7/22/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057948
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/16/2002 8:00:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057948-046A	570-615-0.9	9.4	mg/Kg	9627	5	1	7/16/2002	7/18/2002
057948-047A	570-615-1.5	11	mg/Kg	9628	5	1	7/16/2002	7/19/2002
057948-048A	570-616-0	380	mg/Kg	9628	5	1	7/16/2002	7/19/2002
057948-049A	570-616-0.3	99	mg/Kg	9628	5	1	7/16/2002	7/19/2002
057948-050A	570-616-0.6	630	mg/Kg	9628	5	1	7/16/2002	7/19/2002
057948-051A	570-616-0.9	8.7	mg/Kg	9628	5	1	7/16/2002	7/19/2002

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Advanced Technology Laboratories

Date: 7/22/2002

pH
EPA 9045C

CLIENT:	Ninyo & Moore	**Lab Order:**	057948
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/16/2002 8:00:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057948-002A	570-227-0	7.90	pH Units	R19605	0.1	1	7/16/2002	7/21/2002
057948-013A	570-618-0.3	7.62	pH Units	R19605	0.1	1	7/16/2002	7/21/2002
057948-024A	570-621-0	8.09	pH Units	R19605	0.1	1	7/16/2002	7/21/2002
057948-035A	570-802-0.9	8.68	pH Units	R19606	0.1	1	7/16/2002	7/21/2002
057948-045A	570-615-0.6	8.25	pH Units	R19606	0.1	1	7/16/2002	7/21/2002

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Advanced Technology Laboratories

Date: 7/29/2002

LEAD BY ATOMIC ABSORPTION
WET/ EPA 7420

CLIENT:	Ninyo & Moore	**Lab Order:**	057948
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/16/2002 8:00:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057948-003A	570-227-0.3	4.2	mg/L	9792	0.2	1	7/16/2002	7/26/2002
057948-004A	570-401-0	30	mg/L	9792	0.8	4	7/16/2002	7/26/2002
057948-005A	570-401-0.3	17	mg/L	9792	0.4	2	7/16/2002	7/26/2002
057948-007A	570-401-0.9	4.1	mg/L	9792	0.2	1	7/16/2002	7/26/2002
057948-009A	570-617-0	21	mg/L	9911	0.8	4	7/16/2002	7/29/2002
057948-010A	570-617-0.3	16	mg/L	9792	0.4	2	7/16/2002	7/26/2002
057948-012A	570-618-0	13	mg/L	9792	0.4	2	7/16/2002	7/26/2002
057948-017A	570-619-0	9.0	mg/L	9792	0.2	1	7/16/2002	7/26/2002
057948-022A	570-620-0	7.2	mg/L	9792	0.2	1	7/16/2002	7/26/2002
057948-024A	570-621-0	3.6	mg/L	9792	0.2	1	7/16/2002	7/26/2002
057948-032A	570-802-0	2.8	mg/L	9792	0.2	1	7/16/2002	7/26/2002

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Advanced Technology Laboratories

Date: 7/29/2002

LEAD BY ATOMIC ABSORPTION
WET/ EPA 7420

CLIENT:	Ninyo & Moore	**Lab Order:**	057948
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/16/2002 8:00:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057948-036A	570-613-0.6	14	mg/L	9792	0.4	2	7/16/2002	7/26/2002
057948-038A	570-614-0	34	mg/L	9792	0.8	4	7/16/2002	7/26/2002
057948-039A	570-614-0.3	0.90	mg/L	9792	0.2	1	7/16/2002	7/26/2002
057948-040A	570-614-0.6	26	mg/L	9792	0.8	4	7/16/2002	7/26/2002
057948-045A	570-615-0.6	84	mg/L	9792	2	10	7/16/2002	7/26/2002
057948-048A	570-616-0	23	mg/L	9792	0.8	4	7/16/2002	7/26/2002
057948-049A	570-616-0.3	8.0	mg/L	9793	0.2	1	7/16/2002	7/26/2002
057948-050A	570-616-0.6	17	mg/L	9793	0.4	2	7/16/2002	7/26/2002

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Advanced Technology Laboratories

Date: 8/5/2002

LEAD BY ATOMIC ABSORPTION
WET DI/ EPA 7420

CLIENT:	Ninyo & Moore	**Lab Order:**	057948
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/16/2002 8:00:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057948-004A	570-401-0	ND	mg/L	9954	0.2	1	7/16/2002	8/2/2002
057948-005A	570-401-0.3	ND	mg/L	9954	0.2	1	7/16/2002	8/2/2002
057948-009A	570-617-0	0.25	mg/L	9954	0.2	1	7/16/2002	8/2/2002
057948-010A	570-617-0.3	ND	mg/L	9954	0.2	1	7/16/2002	8/2/2002
057948-012A	570-618-0	ND	mg/L	9954	0.2	1	7/16/2002	8/2/2002
057948-017A	570-619-0	ND	mg/L	9954	0.2	1	7/16/2002	8/2/2002
057948-022A	570-620-0	ND	mg/L	9954	0.2	1	7/16/2002	8/2/2002
057948-036A	570-613-0.6	ND	mg/L	9954	0.2	1	7/16/2002	8/2/2002
057948-038A	570-614-0	ND	mg/L	9955	0.2	1	7/16/2002	8/2/2002
057948-040A	570-614-0.6	ND	mg/L	9955	0.2	1	7/16/2002	8/2/2002
057948-045A	570-615-0.6	ND	mg/L	9955	0.2	1	7/16/2002	8/2/2002

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Advanced Technology Laboratories

Date: 8/5/2002

LEAD BY ATOMIC ABSORPTION
WET DI/ EPA 7420

CLIENT:	Ninyo & Moore	**Lab Order:**	057948
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/16/2002 8:00:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057948-048A	570-616-0	ND	mg/L	9955	0.2	1	7/16/2002	8/2/2002
057948-049A	570-616-0.3	ND	mg/L	9955	0.2	1	7/16/2002	8/2/2002
057948-050A	570-616-0.6	0.31	mg/L	9955	0.2	1	7/16/2002	8/2/2002

Qualifiers:

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Advanced Technology Laboratories
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Advanced Technology Laboratories

Date: *14-Aug-02*

CLIENT: Ninyo & Moore
Client Sample ID: 570-401-0
Lab Order: 057948
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Collection Date: 7/16/2002 9:25:00 AM
Lab ID: 057948-004A
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS						
	(EPA 3050A)			**EPA 6010B**		
RunID: ICP2_020810B	QC Batch: 10209					Analyst: **RQ**
Antimony	ND	2.5		mg/Kg	10	8/10/2002
Arsenic	10	2.5		mg/Kg	10	8/10/2002
Barium	140	1.5		mg/Kg	10	8/10/2002
Beryllium	ND	1.5		mg/Kg	10	8/10/2002
Cadmium	ND	1.5		mg/Kg	10	8/10/2002
Chromium	15	1.5		mg/Kg	10	8/10/2002
Cobalt	10	1.5		mg/Kg	10	8/10/2002
Copper	30	1.5		mg/Kg	10	8/10/2002
Molybdenum	ND	2.5		mg/Kg	10	8/10/2002
Nickel	15	1.5		mg/Kg	10	8/10/2002
Selenium	ND	2.5		mg/Kg	10	8/10/2002
Silver	ND	1.5		mg/Kg	10	8/10/2002
Thallium	ND	2.5		mg/Kg	10	8/10/2002
Vanadium	55	1.5		mg/Kg	10	8/10/2002
Zinc	140	5.0		mg/Kg	10	8/10/2002
MERCURY BY COLD VAPOR TECHNIQUE						
	(EPA 7471)			**EPA 7471A**		
RunID: AA1_020809B	QC Batch: 10165					Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1	8/9/2002

Qualifiers:

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Advanced Technology Laboratories

Date: *14-Aug-02*

CLIENT: Ninyo & Moore
Lab Order: 057948
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Lab ID: 057948-005A

Client Sample ID: 570-401-0.3
Collection Date: 7/16/2002 9:30:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS (EPA 3050A) EPA 6010B						
RunID: ICP2_020810C QC Batch: 10210						Analyst: **RQ**
Antimony	ND	2.5		mg/Kg	10	8/10/2002
Arsenic	10	2.5		mg/Kg	10	8/10/2002
Barium	120	1.5		mg/Kg	10	8/10/2002
Beryllium	ND	1.5		mg/Kg	10	8/10/2002
Cadmium	ND	1.5		mg/Kg	10	8/10/2002
Chromium	10	1.5		mg/Kg	10	8/10/2002
Cobalt	5.0	1.5		mg/Kg	10	8/10/2002
Copper	25	1.5		mg/Kg	10	8/10/2002
Molybdenum	ND	2.5		mg/Kg	10	8/10/2002
Nickel	15	1.5		mg/Kg	10	8/10/2002
Selenium	ND	2.5		mg/Kg	10	8/10/2002
Silver	ND	1.5		mg/Kg	10	8/10/2002
Thallium	2.6	2.5		mg/Kg	10	8/10/2002
Vanadium	55	1.5		mg/Kg	10	8/10/2002
Zinc	95	5.0		mg/Kg	10	8/10/2002
MERCURY BY COLD VAPOR TECHNIQUE (EPA 7471) EPA 7471A						
RunID: AA1_020809B QC Batch: 10165						Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1	8/9/2002

Qualifiers:

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3275 Walnut Avenue Signal Hill CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *14-Aug-02*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	570-618-0.6
Lab Order:	057948		
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Collection Date:**	7/16/2002 10:42:00 AM
Lab ID:	057948-014A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS						
	(EPA 3050A)			**EPA 6010B**		
RunID: ICP2_020810C	QC Batch: 10210					Analyst: **RQ**
Antimony	ND	2.5		mg/Kg	10	8/10/2002
Arsenic	15	2.5		mg/Kg	10	8/10/2002
Barium	190	1.5		mg/Kg	10	8/10/2002
Beryllium	ND	1.5		mg/Kg	10	8/10/2002
Cadmium	ND	1.5		mg/Kg	10	8/10/2002
Chromium	15	1.5		mg/Kg	10	8/10/2002
Cobalt	15	1.5		mg/Kg	10	8/10/2002
Copper	35	1.5		mg/Kg	10	8/10/2002
Molybdenum	ND	2.5		mg/Kg	10	8/10/2002
Nickel	15	1.5		mg/Kg	10	8/10/2002
Selenium	ND	2.5		mg/Kg	10	8/10/2002
Silver	ND	1.5		mg/Kg	10	8/10/2002
Thallium	ND	2.5		mg/Kg	10	8/10/2002
Vanadium	60	1.5		mg/Kg	10	8/10/2002
Zinc	80	5.0		mg/Kg	10	8/10/2002
MERCURY BY COLD VAPOR TECHNIQUE						
	(EPA 7471)			**EPA 7471A**		
RunID: AA1_020809B	QC Batch: 10165					Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1	8/9/2002

Qualifiers:

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H - Sample exceeded analytical holding time
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Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: *14-Aug-02*

CLIENT: Ninyo & Moore
Lab Order: 057948
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Lab ID: 057948-025A

Client Sample ID: 570-621-0.3
Collection Date: 7/16/2002 11:29:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS	**(EPA 3050A)**			**EPA 6010B**		
RunID: ICP2_020810C	QC Batch: 10210					Analyst: **RQ**
Antimony	ND	2.5		mg/Kg	10	8/10/2002
Arsenic	10	2.5		mg/Kg	10	8/10/2002
Barium	140	1.5		mg/Kg	10	8/10/2002
Beryllium	ND	1.5		mg/Kg	10	8/10/2002
Cadmium	ND	1.5		mg/Kg	10	8/10/2002
Chromium	5.0	1.5		mg/Kg	10	8/10/2002
Cobalt	10	1.5		mg/Kg	10	8/10/2002
Copper	25	1.5		mg/Kg	10	8/10/2002
Molybdenum	ND	2.5		mg/Kg	10	8/10/2002
Nickel	10	1.5		mg/Kg	10	8/10/2002
Selenium	ND	2.5		mg/Kg	10	8/10/2002
Silver	ND	1.5		mg/Kg	10	8/10/2002
Thallium	2.6	2.5		mg/Kg	10	8/10/2002
Vanadium	40	1.5		mg/Kg	10	8/10/2002
Zinc	90	5.0		mg/Kg	10	8/10/2002
MERCURY BY COLD VAPOR TECHNIQUE	**(EPA 7471)**			**EPA 7471A**		
RunID: AA1_020813E	QC Batch: 10206					Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1	8/13/2002

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H - Sample exceeded analytical holding time
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Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: *14-Aug-02*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	570-615-0
Lab Order:	057948		
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Collection Date:**	7/16/2002 2:55:00 PM
Lab ID:	057948-043A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS						
	(EPA 3050A)			**EPA 6010B**		
RunID: ICP2_020810C	QC Batch: 10210					Analyst: **RQ**
Antimony	ND	2.5		mg/Kg	10	8/10/2002
Arsenic	15	2.5		mg/Kg	10	8/10/2002
Barium	160	1.5		mg/Kg	10	8/10/2002
Beryllium	ND	1.5		mg/Kg	10	8/10/2002
Cadmium	ND	1.5		mg/Kg	10	8/10/2002
Chromium	15	1.5		mg/Kg	10	8/10/2002
Cobalt	15	1.5		mg/Kg	10	8/10/2002
Copper	30	1.5		mg/Kg	10	8/10/2002
Molybdenum	ND	2.5		mg/Kg	10	8/10/2002
Nickel	15	1.5		mg/Kg	10	8/10/2002
Selenium	ND	2.5		mg/Kg	10	8/10/2002
Silver	ND	1.5		mg/Kg	10	8/10/2002
Thallium	3.7	2.5		mg/Kg	10	8/10/2002
Vanadium	55	1.5		mg/Kg	10	8/10/2002
Zinc	95	5.0		mg/Kg	10	8/10/2002
MERCURY BY COLD VAPOR TECHNIQUE						
	(EPA 7471)			**EPA 7471A**		
RunID: AA1_020809B	QC Batch: 10165					Analyst: **NS**
Mercury	0.19	0.10		mg/Kg	1	8/9/2002

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Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: 8/19/2002

LEAD BY ATOMIC ABSORPTION
EPA 1311/ 7420

CLIENT: Ninyo & Moore
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Project No:
PO No:

Lab Order: 057948
Date Received: 7/16/2002 8:00:0
Matrix: Soil
Analyst: NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057948-004A	570-401-0	0.95	mg/L	10398	0.2	1	7/16/2002	8/16/2002
057948-005A	570-401-0.3	1.7	mg/L	10398	0.2	1	7/16/2002	8/16/2002
057948-006A	570-401-0.6	ND	mg/L	10359	0.2	1	7/16/2002	8/15/2002
057948-007A	570-401-0.9	ND	mg/L	10359	0.2	1	7/16/2002	8/15/2002
057948-008A	570-401-1.5	ND	mg/L	10364	0.2	1	7/16/2002	8/15/2002
057948-009A	570-617-0	0.80	mg/L	10404	0.2	1	7/16/2002	8/16/2002
057948-010A	570-617-0.3	ND	mg/L	10364	0.2	1	7/16/2002	8/15/2002
057948-038A	570-614-0	ND	mg/L	10364	0.2	1	7/16/2002	8/15/2002
057948-040A	570-614-0.6	0.50	mg/L	10364	0.2	1	7/16/2002	8/15/2002
057948-043A	570-615-0	0.30	mg/L	10086	0.2	1	7/16/2002	8/6/2002
057948-045A	570-615-0.6	0.45	mg/L	10364	0.2	1	7/16/2002	8/15/2002

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Advanced Technology Laboratories

Date: 8/19/2002

LEAD BY ATOMIC ABSORPTION
EPA 1311/ 7420

CLIENT:	Ninyo & Moore	**Lab Order:**	057948
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/16/2002 8:00:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057948-048A	570-616-0	ND	mg/L	10364	0.2	1	7/16/2002	8/15/2002
057948-050A	570-616-0.6	2.6	mg/L	10364	0.2	1	7/16/2002	8/15/2002

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Advanced Technology Laboratories

Date: *19-Aug-02*

CLIENT: Ninyo & Moore
Work Order: 057948
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10086

Sample ID: **MB-10086** SampType: **mblk** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806G**
Client ID: **ZZZZZ** Batch ID: **10086** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314586**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-10076-TCLP** SampType: **mblk** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806G**
Client ID: **ZZZZZ** Batch ID: **10086** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314587**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.07372	0.20									

Sample ID: **LCS-10086** SampType: **lcs** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806G**
Client ID: **ZZZZZ** Batch ID: **10086** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314601**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.172	0.20	1	0	117	80	120	0	0		

Sample ID: **057950-033AMS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806G**
Client ID: **ZZZZZ** Batch ID: **10086** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314599**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	8.972	0.20	2.5	5.811	126	80	120	0	0		S

Sample ID: **057950-033ADUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806G**
Client ID: **ZZZZZ** Batch ID: **10086** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314598**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	6.054	0.20	0	0	0	0	0	5.811	4.09	30	

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CLIENT: Ninyo & Moore
Work Order: 057948
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10165

Sample ID: **MB-10165** SampType: **mblk** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809B**
Client ID: **ZZZZZ** Batch ID: **10165** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316099**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: **LCS-10165** SampType: **lcs** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809B**
Client ID: **ZZZZZ** Batch ID: **10165** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316098**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.113	0.10	2.08	0	102	80	120	0	0		

Sample ID: **057950-046AMS** SampType: **MS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809B**
Client ID: **ZZZZZ** Batch ID: **10165** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316096**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.995	0.10	0.83	0.03709	115	62	146	0	0		

Sample ID: **057950-046AMSD** SampType: **MSD** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809B**
Client ID: **ZZZZZ** Batch ID: **10165** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316097**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.9358	0.10	0.83	0.03709	108	62	146	0.995	6.13	33	

Sample ID: **057950-046ADUP** SampType: **DUP** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809B**
Client ID: **ZZZZZ** Batch ID: **10165** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316095**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.04672	0.10	0	0	0	0	0	0.03709	0	30	J

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CLIENT: Ninyo & Moore
Work Order: 057948
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10206

Sample ID: **MB-10206** SampType: **mblk** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020813E**
Client ID: **ZZZZZ** Batch ID: **10206** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/13/2002** SeqNo: **318502**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: **LCS-10206** SampType: **lcs** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020813E**
Client ID: **ZZZZZ** Batch ID: **10206** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/13/2002** SeqNo: **318501**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.067	0.10	2.08	0	99.4	80	120	0	0		

Sample ID: **058166-035AMS** SampType: **MS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020813E**
Client ID: **ZZZZZ** Batch ID: **10206** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/13/2002** SeqNo: **318499**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.9595	0.10	0.83	0.04226	111	62	146	0	0		

Sample ID: **058166-035AMSD** SampType: **MSD** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020813E**
Client ID: **ZZZZZ** Batch ID: **10206** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/13/2002** SeqNo: **318500**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.977	0.10	0.83	0.04226	113	62	146	0.9595	1.80	33	

Sample ID: **058166-035ADUP** SampType: **DUP** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020813E**
Client ID: **ZZZZZ** Batch ID: **10206** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/13/2002** SeqNo: **318498**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.04707	0.10	0	0	0	0	0	0.04226	0	30	J

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Calculations are based on raw values
DO - Surrogate diluted out
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CLIENT: Ninyo & Moore
Work Order: 057948
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10209

Sample ID: **MB-10209** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/9/2002** Run ID: **ICP2_020810B**
Client ID: **ZZZZZ** Batch ID: **10209** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316560**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.0505	0.25									J
Arsenic	0.1785	0.25									J
Barium	ND	0.15									
Beryllium	0.011	0.15									J
Cadmium	0.0285	0.15									J
Chromium	ND	0.15									
Cobalt	0.038	0.15									J
Copper	ND	0.15									
Molybdenum	0.0045	0.25									J
Nickel	ND	0.15									
Selenium	ND	0.25									
Silver	0.036	0.15									J
Thallium	0.046	0.25									J
Vanadium	ND	0.15									
Zinc	0.037	0.50									J

Sample ID: **LCS-10209** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/9/2002** Run ID: **ICP2_020810B**
Client ID: **ZZZZZ** Batch ID: **10209** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316561**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	46	0.25	50	0	92	80	120	0	0		
Arsenic	47	0.25	50	0	94	80	120	0	0		
Barium	50.5	0.15	50	0	101	80	120	0	0		
Beryllium	46.5	0.15	50	0	93	80	120	0	0		
Cadmium	46	0.15	50	0	92	80	120	0	0		
Chromium	48	0.15	50	0	96	80	120	0	0		
Cobalt	47.5	0.15	50	0	95	80	120	0	0		
Copper	48.5	0.15	50	0	97	80	120	0	0		
Molybdenum	48	0.25	50	0	96	80	120	0	0		
Nickel	46	0.15	50	0	92	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; S - Spike/Surrogate outside limits due to matrix interference; B - Analyte detected in the associated Method Blank; **Calculations are based on raw values**; DO - Surrogate diluted out; H - Sample exceeded holding time

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CLIENT: Ninyo & Moore
Work Order: 057948
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10209

Sample ID: **LCS-10209** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/9/2002** Run ID: **ICP2_020810B**
Client ID: **ZZZZZ** Batch ID: **10209** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316561**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	43	0.25	50	0	86	80	120	0	0		
Silver	48.5	0.15	50	0	97	80	120	0	0		
Thallium	48	0.25	50	0	96	80	120	0	0		
Vanadium	48	0.15	50	0	96	80	120	0	0		
Zinc	47	0.50	50	0	94	80	120	0	0		

Sample ID: **057948-004AMS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/9/2002** Run ID: **ICP2_020810B**
Client ID: **570-401-0** Batch ID: **10209** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316573**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	65	2.5	125	0.895	51.3	32	115	0	0		
Arsenic	130	2.5	125	10	96	59	111	0	0		
Barium	280	1.5	125	135	116	34	151	0	0		
Beryllium	120	1.5	125	0	96	56	112	0	0		
Cadmium	115	1.5	125	0	92	52	120	0	0		
Chromium	140	1.5	125	15	100	56	118	0	0		
Cobalt	130	1.5	125	10	96	58	117	0	0		
Copper	155	1.5	125	30	100	58	134	0	0		
Molybdenum	115	2.5	125	0.905	91.3	56	115	0	0		
Nickel	135	1.5	125	15	96	52	120	0	0		
Selenium	120	2.5	125	0	96	46	108	0	0		
Silver	125	1.5	125	0.1	99.9	74	117	0	0		
Thallium	125	2.5	125	2.41	98.1	62	117	0	0		
Vanadium	180	1.5	125	55	100	55	122	0	0		
Zinc	260	5.0	125	145	92	43	134	0	0		

Sample ID: **057948-004AMSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/9/2002** Run ID: **ICP2_020810B**
Client ID: **570-401-0** Batch ID: **10209** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316574**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike/Surrogate outside limits due to matrix interference; DO - Surrogate diluted out; J - Analyte detected below quantitation limits; B - Analyte detected in the associated Method Blank; H - Sample exceeded holding time; R - RPD outside accepted recovery limits

Calculations are based on raw values

Advanced Technology Laboratories
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CLIENT: Ninyo & Moore
Work Order: 057948
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10209

Sample ID: **057948-004AMSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/9/2002** Run ID: **ICP2_020810B**
Client ID: **570-401-0** Batch ID: **10209** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316574**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	75	2.5	125	0.895	59.3	32	115	65	14.3	20	
Arsenic	135	2.5	125	10	100	59	111	130	3.77	20	
Barium	265	1.5	125	135	104	34	151	280	5.50	20	
Beryllium	120	1.5	125	0	96	56	112	120	0	20	
Cadmium	115	1.5	125	0	92	52	120	115	0	20	
Chromium	140	1.5	125	15	100	56	118	140	0	20	
Cobalt	130	1.5	125	10	96	58	117	130	0	20	
Copper	160	1.5	125	30	104	58	134	155	3.17	20	
Molybdenum	120	2.5	125	0.905	95.3	56	115	115	4.26	20	
Nickel	140	1.5	125	15	100	52	120	135	3.64	20	
Selenium	125	2.5	125	0	100	46	108	120	4.08	20	
Silver	125	1.5	125	0.1	99.9	74	117	125	0	20	
Thallium	130	2.5	125	2.41	102	62	117	125	3.92	20	
Vanadium	185	1.5	125	55	104	55	122	180	2.74	20	
Zinc	280	5.0	125	145	108	43	134	260	7.41	20	

Sample ID: **057948-004ADUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/9/2002** Run ID: **ICP2_020810B**
Client ID: **570-401-0** Batch ID: **10209** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316572**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.13	2.5	0	0	0	0	0	0.895	0	30	J
Arsenic	10	2.5	0	0	0	0	0	10	0	30	
Barium	130	1.5	0	0	0	0	0	135	3.77	30	
Beryllium	ND	1.5	0	0	0	0	0	0	0	30	
Cadmium	ND	1.5	0	0	0	0	0	0	0	30	
Chromium	15	1.5	0	0	0	0	0	15	0	30	
Cobalt	10	1.5	0	0	0	0	0	10	0	30	
Copper	30	1.5	0	0	0	0	0	30	0	30	
Molybdenum	1.19	2.5	0	0	0	0	0	0.905	0	30	J
Nickel	15	1.5	0	0	0	0	0	15	0	30	

Qualifiers: ND - Not Detected at the Reporting Limit
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S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

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Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10209

Sample ID: **057948-004ADUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/9/2002** Run ID: **ICP2_020810B**
Client ID: **570-401-0** Batch ID: **10209** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316572**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	ND	2.5	0	0	0	0	0	0	0	30	
Silver	0.4	1.5	0	0	0	0	0	0.1	0	30	J
Thallium	1.715	2.5	0	0	0	0	0	2.41	0	30	J
Vanadium	55	1.5	0	0	0	0	0	55	0	30	
Zinc	155	5.0	0	0	0	0	0	145	6.67	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
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Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

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Work Order: 057948
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ANALYTICAL QC SUMMARY REPORT

BatchID: 10210

Sample ID: **MB-10210** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP2_020810C**
Client ID: **ZZZZZ** Batch ID: **10210** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316575**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.0035	0.25									J
Arsenic	0.132	0.25									J
Barium	ND	0.15									
Beryllium	0.011	0.15									J
Cadmium	0.024	0.15									J
Chromium	ND	0.15									
Cobalt	0.002	0.15									J
Copper	ND	0.15									
Molybdenum	0.0075	0.25									J
Nickel	ND	0.15									
Selenium	ND	0.25									
Silver	0.0495	0.15									J
Thallium	0.075	0.25									J
Vanadium	ND	0.15									
Zinc	0.106	0.50									J

Sample ID: **LCS-10210** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP2_020810C**
Client ID: **ZZZZZ** Batch ID: **10210** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316576**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	46.5	0.25	50	0	93	80	120	0	0		
Arsenic	47	0.25	50	0	94	80	120	0	0		
Barium	51.5	0.15	50	0	103	80	120	0	0		
Beryllium	47.5	0.15	50	0	95	80	120	0	0		
Cadmium	46	0.15	50	0	92	80	120	0	0		
Chromium	49	0.15	50	0	98	80	120	0	0		
Cobalt	48	0.15	50	0	96	80	120	0	0		
Copper	49.5	0.15	50	0	99	80	120	0	0		
Molybdenum	48.5	0.25	50	0	97	80	120	0	0		
Nickel	46	0.15	50	0	92	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; S - Spike/Surrogate outside limits due to matrix interference; B - Analyte detected in the associated Method Blank; DO - Surrogate diluted out; H - Sample exceeded holding time

Calculations are based on raw values

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ANALYTICAL QC SUMMARY REPORT

BatchID: 10210

Sample ID: **LCS-10210** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP2_020810C**
Client ID: **ZZZZZ** Batch ID: **10210** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316576**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	43	0.25	50	0	86	80	120	0	0		
Silver	48.5	0.15	50	0	97	80	120	0	0		
Thallium	49	0.25	50	0	98	80	120	0	0		
Vanadium	48.5	0.15	50	0	97	80	120	0	0		
Zinc	48	0.50	50	0	96	80	120	0	0		

Sample ID: **057950-046AMS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP2_020810C**
Client ID: **ZZZZZ** Batch ID: **10210** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316588**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	95	2.5	125	1.245	75	32	115	0	0		
Arsenic	125	2.5	125	10	92	59	111	0	0		
Barium	215	1.5	125	100	92	34	151	0	0		
Beryllium	120	1.5	125	0	96	56	112	0	0		
Cadmium	115	1.5	125	0	92	52	120	0	0		
Chromium	130	1.5	125	5	100	56	118	0	0		
Cobalt	130	1.5	125	5	100	58	117	0	0		
Copper	135	1.5	125	15	96	58	134	0	0		
Molybdenum	115	2.5	125	0.715	91.4	56	115	0	0		
Nickel	125	1.5	125	5	96	52	120	0	0		
Selenium	115	2.5	125	0	92	46	108	0	0		
Silver	120	1.5	125	0.24	95.8	74	117	0	0		
Thallium	125	2.5	125	0.745	99.4	62	117	0	0		
Vanadium	150	1.5	125	35	92	55	122	0	0		
Zinc	160	5.0	125	45	92	43	134	0	0		

Sample ID: **057950-046AMSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP2_020810C**
Client ID: **ZZZZZ** Batch ID: **10210** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316589**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

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ANALYTICAL QC SUMMARY REPORT

BatchID: 10210

Sample ID: **057950-046AMSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP2_020810C**
Client ID: **ZZZZZ** Batch ID: **10210** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316589**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	100	2.5	125	1.245	79	32	115	95	5.13	20	
Arsenic	135	2.5	125	10	100	59	111	125	7.69	20	
Barium	240	1.5	125	100	112	34	151	215	11.0	20	
Beryllium	130	1.5	125	0	104	56	112	120	8.00	20	
Cadmium	125	1.5	125	0	100	52	120	115	8.33	20	
Chromium	140	1.5	125	5	108	56	118	130	7.41	20	
Cobalt	135	1.5	125	5	104	58	117	130	3.77	20	
Copper	150	1.5	125	15	108	58	134	135	10.5	20	
Molybdenum	125	2.5	125	0.715	99.4	56	115	115	8.33	20	
Nickel	135	1.5	125	5	104	52	120	125	7.69	20	
Selenium	125	2.5	125	0	100	46	108	115	8.33	20	
Silver	130	1.5	125	0.24	104	74	117	120	8.00	20	
Thallium	135	2.5	125	0.745	107	62	117	125	7.69	20	
Vanadium	165	1.5	125	35	104	55	122	150	9.52	20	
Zinc	180	5.0	125	45	108	43	134	160	11.8	20	

Sample ID: **057950-046ADUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP2_020810C**
Client ID: **ZZZZZ** Batch ID: **10210** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316587**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.56	2.5	0	0	0	0	0	1.245	0	30	J
Arsenic	5	2.5	0	0	0	0	0	10	66.7	30	R
Barium	95	1.5	0	0	0	0	0	100	5.13	30	
Beryllium	ND	1.5	0	0	0	0	0	0	0	30	
Cadmium	ND	1.5	0	0	0	0	0	0	0	30	
Chromium	5	1.5	0	0	0	0	0	5	0	30	
Cobalt	5	1.5	0	0	0	0	0	5	0	30	
Copper	10	1.5	0	0	0	0	0	15	40.0	30	R
Molybdenum	0.095	2.5	0	0	0	0	0	0.715	0	30	J
Nickel	5	1.5	0	0	0	0	0	5	0	30	

Qualifiers: ND - Not Detected at the Reporting Limit
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Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10210

Sample ID: **057950-046ADUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP2_020810C**
Client ID: **ZZZZZ** Batch ID: **10210** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316587**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	ND	2.5	0	0	0	0	0	0	0	30	
Silver	0.275	1.5	0	0	0	0	0	0.24	0	30	J
Thallium	1.28	2.5	0	0	0	0	0	0.745	0	30	J
Vanadium	30	1.5	0	0	0	0	0	35	15.4	30	
Zinc	40	5.0	0	0	0	0	0	45	11.8	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
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ANALYTICAL QC SUMMARY REPORT

BatchID: 10359

Sample ID: **MB-10359** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/14/2002** Run ID: **AA2_020814W**
Client ID: **ZZZZZ** Batch ID: **10359** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/15/2002** SeqNo: **319032**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-10272-TCLP** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/14/2002** Run ID: **AA2_020814W**
Client ID: **ZZZZZ** Batch ID: **10359** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/15/2002** SeqNo: **319033**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-10359** SampType: **LCS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/14/2002** Run ID: **AA2_020814W**
Client ID: **ZZZZZ** Batch ID: **10359** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/15/2002** SeqNo: **319047**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.017	0.20	1	0	102	80	120	0	0		

Sample ID: **058021-059AMS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/14/2002** Run ID: **AA2_020814W**
Client ID: **ZZZZZ** Batch ID: **10359** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/15/2002** SeqNo: **319045**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.223	0.20	2.5	4.397	113	80	120	0	0		

Sample ID: **058021-059ADUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/14/2002** Run ID: **AA2_020814W**
Client ID: **ZZZZZ** Batch ID: **10359** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/15/2002** SeqNo: **319044**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.234	0.20	0	0	0	0	0	4.397	17.4	30	

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 10364

Sample ID: **MB-10364** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/14/2002** Run ID: **AA2_020814X**
Client ID: **ZZZZZ** Batch ID: **10364** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/15/2002** SeqNo: **319048**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-10273-TCLP** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/14/2002** Run ID: **AA2_020814X**
Client ID: **ZZZZZ** Batch ID: **10364** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/15/2002** SeqNo: **319049**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-10364** SampType: **LCS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/14/2002** Run ID: **AA2_020814X**
Client ID: **ZZZZZ** Batch ID: **10364** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/15/2002** SeqNo: **319062**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.006	0.20	1	0	101	80	120	0	0		

Sample ID: **057949-018AMS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/14/2002** Run ID: **AA2_020814X**
Client ID: **ZZZZZ** Batch ID: **10364** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/15/2002** SeqNo: **319060**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.015	0.20	2.841	0.1438	101	80	120	0	0		

Sample ID: **057949-018ADUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/14/2002** Run ID: **AA2_020814X**
Client ID: **ZZZZZ** Batch ID: **10364** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/15/2002** SeqNo: **319059**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.2938	0.20	0	0	0	0	0	0.1438	68.5	30	R

Qualifiers:
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Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

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CLIENT: Ninyo & Moore
Work Order: 057948
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10398

Sample ID: **MB-10398** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/15/2002** Run ID: **AA2_020816A**
Client ID: **ZZZZZ** Batch ID: **10398** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/16/2002** SeqNo: **319792**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-10377-TCLP** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/15/2002** Run ID: **AA2_020816A**
Client ID: **ZZZZZ** Batch ID: **10398** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/16/2002** SeqNo: **319793**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20	0	0	0	0	0	0	0		

Sample ID: **LCS-10398** SampType: **LCS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/15/2002** Run ID: **AA2_020816A**
Client ID: **ZZZZZ** Batch ID: **10398** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/16/2002** SeqNo: **319807**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.058	0.20	1	0	106	80	120	0	0		

Sample ID: **057972-025AMS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/15/2002** Run ID: **AA2_020816A**
Client ID: **ZZZZZ** Batch ID: **10398** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/16/2002** SeqNo: **319805**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.851	0.20	2.5	0.3406	100	80	120	0	0		

Sample ID: **057972-025ADUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/15/2002** Run ID: **AA2_020816A**
Client ID: **ZZZZZ** Batch ID: **10398** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/16/2002** SeqNo: **319804**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.3508	0.20	0	0	0	0	0	0.3406	2.97	30	

Qualifiers:
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J - Analyte detected below quantitation limits
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Calculations are based on raw values
DO - Surrogate diluted out
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ANALYTICAL QC SUMMARY REPORT

BatchID: 10404

Sample ID: **MB-10404** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/15/2002** Run ID: **AA2_020816G**
Client ID: **ZZZZZ** Batch ID: **10404** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/16/2002** SeqNo: **319888**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-10383-TCLP** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/15/2002** Run ID: **AA2_020816G**
Client ID: **ZZZZZ** Batch ID: **10404** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/16/2002** SeqNo: **319889**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20	0	0	0	0	0	0	0		

Sample ID: **LCS-10404** SampType: **LCS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/15/2002** Run ID: **AA2_020816G**
Client ID: **ZZZZZ** Batch ID: **10404** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/16/2002** SeqNo: **319897**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.8671	0.20	1	0	86.7	80	120	0	0		

Sample ID: **058086-031AMS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/15/2002** Run ID: **AA2_020816G**
Client ID: **ZZZZZ** Batch ID: **10404** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/16/2002** SeqNo: **319895**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.702	0.20	2.5	1.254	97.9	80	120	0	0		

Sample ID: **058086-031ADUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/15/2002** Run ID: **AA2_020816G**
Client ID: **ZZZZZ** Batch ID: **10404** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/16/2002** SeqNo: **319894**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.403	0.20	0	0	0	0	0	1.254	11.2	30	

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9624

Sample ID: **MB-9624** SampType: **MBLK** TestCode: **6010_W** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718F**
Client ID: **ZZZZZ** Batch ID: **9624** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **301310**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0	0.0050									
Arsenic	0	0.0050									
Barium	0	0.0030									
Beryllium	0	0.0030									
Cadmium	0	0.0030									
Chromium	0	0.0030									
Cobalt	0	0.0030									
Copper	0	0.0030									
Lead	0	0.0050									
Molybdenum	0	0.0050									
Nickel	0	0.0030									
Selenium	0	0.0050									
Silver	0	0.0030									
Thallium	0	0.0050									
Vanadium	0	0.0030									
Zinc	0	0.010									

Sample ID: **LCS-9624** SampType: **LCS** TestCode: **6010_W** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718F**
Client ID: **ZZZZZ** Batch ID: **9624** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **301311**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	1.07	0.0050	1	0	107	80	120	0	0		
Arsenic	1.1	0.0050	1	0	110	80	120	0	0		
Barium	1.07	0.0030	1	0	107	80	120	0	0		
Beryllium	1.08	0.0030	1	0	108	80	120	0	0		
Cadmium	1.03	0.0030	1	0	103	80	120	0	0		
Chromium	1.06	0.0030	1	0	106	80	120	0	0		
Cobalt	1.03	0.0030	1	0	103	80	120	0	0		
Copper	1.04	0.0030	1	0	104	80	120	0	0		
Lead	1.03	0.0050	1	0	103	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9624

Sample ID: **LCS-9624** SampType: **LCS** TestCode: **6010_W** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718F**
Client ID: **ZZZZZ** Batch ID: **9624** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **301311**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	1.08	0.0050	1	0	108	80	120	0	0		
Nickel	1.01	0.0030	1	0	101	80	120	0	0		
Selenium	1.06	0.0050	1	0	106	80	120	0	0		
Silver	1.05	0.0030	1	0	105	80	120	0	0		
Thallium	1.07	0.0050	1	0	107	80	120	0	0		
Vanadium	1.1	0.0030	1	0	110	80	120	0	0		
Zinc	1.03	0.010	1	0	103	80	120	0	0		

Sample ID: **057952-059AMS** SampType: **MS** TestCode: **6010_W** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718F**
Client ID: **ZZZZZ** Batch ID: **9624** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **301314**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	2.57	0.0050	2.5	0	103	69	116	0	0		
Arsenic	2.55	0.0050	2.5	0	102	67	114	0	0		
Barium	2.58	0.0030	2.5	0.00284	103	63	125	0	0		
Beryllium	2.6	0.0030	2.5	0	104	60	117	0	0		
Cadmium	2.47	0.0030	2.5	0	98.8	63	123	0	0		
Chromium	2.58	0.0030	2.5	0	103	68	118	0	0		
Cobalt	2.5	0.0030	2.5	0	100	68	118	0	0		
Copper	2.63	0.0030	2.5	0	105	72	123	0	0		
Lead	2.43	0.0050	2.5	0	97.2	66	118	0	0		
Molybdenum	2.59	0.0050	2.5	0	104	65	111	0	0		
Nickel	2.5	0.0030	2.5	0	100	64	121	0	0		
Selenium	2.56	0.0050	2.5	0	102	62	109	0	0		
Silver	2.55	0.0030	2.5	0	102	71	137	0	0		
Thallium	2.53	0.0050	2.5	0	101	67	122	0	0		
Vanadium	2.61	0.0030	2.5	0.00103	104	69	118	0	0		
Zinc	2.48	0.010	2.5	0.00746	98.9	65	112	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9624

Sample ID: **057952-059AMSD** SampType: **MSD** TestCode: **6010_W** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718F**
Client ID: **ZZZZZ** Batch ID: **9624** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **301315**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	2.36	0.0050	2.5	0	94.4	69	116	2.57	8.52	20	
Arsenic	2.35	0.0050	2.5	0	94	67	114	2.55	8.16	20	
Barium	2.36	0.0030	2.5	0.00284	94.3	63	125	2.58	8.91	20	
Beryllium	2.38	0.0030	2.5	0	95.2	60	117	2.6	8.84	20	
Cadmium	2.26	0.0030	2.5	0	90.4	63	123	2.47	8.88	20	
Chromium	2.35	0.0030	2.5	0	94	68	118	2.58	9.33	20	
Cobalt	2.29	0.0030	2.5	0	91.6	68	118	2.5	8.77	20	
Copper	2.4	0.0030	2.5	0	96	72	123	2.63	9.15	20	
Lead	2.22	0.0050	2.5	0	88.8	66	118	2.43	9.03	20	
Molybdenum	2.37	0.0050	2.5	0	94.8	65	111	2.59	8.87	20	
Nickel	2.27	0.0030	2.5	0	90.8	64	121	2.5	9.64	20	
Selenium	2.36	0.0050	2.5	0	94.4	62	109	2.56	8.13	20	
Silver	2.33	0.0030	2.5	0	93.2	71	137	2.55	9.02	20	
Thallium	2.34	0.0050	2.5	0	93.6	67	122	2.53	7.80	20	
Vanadium	2.39	0.0030	2.5	0.00103	95.6	69	118	2.61	8.80	20	
Zinc	2.27	0.010	2.5	0.00746	90.5	65	112	2.48	8.84	20	

Sample ID: **MB-9624** SampType: **MBLK** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718D**
Client ID: **ZZZZZ** Batch ID: **9624** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **301266**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.0050									

Sample ID: **LCS-9624** SampType: **LCS** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718D**
Client ID: **ZZZZZ** Batch ID: **9624** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **301267**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.03	0.0050	1	0	103	80	120	0	0		

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9624

Sample ID: **057952-059AMS** SampType: **MS** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718D**
Client ID: **ZZZZZ** Batch ID: **9624** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **301275**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.43	0.0050	2.5	0	97.2	66	118	0	0		

Sample ID: **057952-059ADUP** SampType: **DUP** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718D**
Client ID: **ZZZZZ** Batch ID: **9624** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **301274**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.0050	0	0	0	0	0	0	0	30	

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9625

Sample ID: **MB-9625A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/17/2002** Run ID: **ICP5_020718J**
Client ID: **ZZZZZ** Batch ID: **9625** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301471**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **MB-9625B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/17/2002** Run ID: **ICP5_020718J**
Client ID: **ZZZZZ** Batch ID: **9625** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301472**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-9625** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/17/2002** Run ID: **ICP5_020718J**
Client ID: **ZZZZZ** Batch ID: **9625** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301470**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	223.4	5.0	250	0	89.3	80	120	0	0		

Sample ID: **057942-038AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/17/2002** Run ID: **ICP5_020718J**
Client ID: **ZZZZZ** Batch ID: **9625** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301455**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	152.1	5.0	250	4.7	59	47	128	0	0		

Sample ID: **057948-006AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/17/2002** Run ID: **ICP5_020718J**
Client ID: **570-401-0.6** Batch ID: **9625** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301468**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	164.4	5.0	250	39.81	49.8	47	128	0	0		

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9625

Sample ID: **057942-038ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/17/2002** Run ID: **ICP5_020718J**
Client ID: **ZZZZZ** Batch ID: **9625** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301454**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	6.823	5.0	0	0	0	0	0	4.7	36.8	30	R

Sample ID: **057948-006ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/17/2002** Run ID: **ICP5_020718J**
Client ID: **570-401-0.6** Batch ID: **9625** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301467**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	31.02	5.0	0	0	0	0	0	39.81	24.8	30	

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9626

Sample ID: **MB-9626A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020718K**
Client ID: **ZZZZZ** Batch ID: **9626** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301500**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-9626** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020718K**
Client ID: **ZZZZZ** Batch ID: **9626** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301498**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	223.7	5.0	250	0	89.5	80	120	0	0		

Sample ID: **057948-016AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020718K**
Client ID: **570-618-1.5** Batch ID: **9626** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301484**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	127.4	5.0	250	5.799	48.7	47	128	0	0		

Sample ID: **057948-026AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020718K**
Client ID: **570-621-0.6** Batch ID: **9626** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301496**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	165	5.0	250	10.81	61.7	47	128	0	0		

Sample ID: **057948-016ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020718K**
Client ID: **570-618-1.5** Batch ID: **9626** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301483**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.214	5.0	0	0	0	0	0	5.799	21.7	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

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ANALYTICAL QC SUMMARY REPORT

BatchID: 9626

Sample ID: **057948-026ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020718K**
Client ID: **570-621-0.6** Batch ID: **9626** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301495**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	12.85	5.0	0	0	0	0	0	10.81	17.2	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9627

Sample ID: **MB-9627A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020718L**
Client ID: **ZZZZZ** Batch ID: **9627** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301527**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **MB-9627B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020718L**
Client ID: **ZZZZZ** Batch ID: **9627** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301528**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-9627** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020718L**
Client ID: **ZZZZZ** Batch ID: **9627** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301526**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	226.4	5.0	250	0	90.6	80	120	0	0		

Sample ID: **057948-036AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020718L**
Client ID: **570-613-0.6** Batch ID: **9627** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301512**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	210.8	5.0	250	83.05	51.1	47	128	0	0		

Sample ID: **057948-046AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020718L**
Client ID: **570-615-0.9** Batch ID: **9627** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301524**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	133.1	5.0	250	9.395	49.5	47	128	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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Calculations are based on raw values
DO - Surrogate diluted out
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9627

Sample ID: **057948-036ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020718L**
Client ID: **570-613-0.6** Batch ID: **9627** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301511**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	105.8	5.0	0	0	0	0	0	83.05	24.1	30	

Sample ID: **057948-046ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020718L**
Client ID: **570-615-0.9** Batch ID: **9627** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/18/2002** SeqNo: **301523**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.114	5.0	0	0	0	0	0	9.395	27.6	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9628

Sample ID: **MB-9628A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719I**
Client ID: **ZZZZZ** Batch ID: **9628** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/19/2002** SeqNo: **302237**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **MB-9628B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719I**
Client ID: **ZZZZZ** Batch ID: **9628** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/19/2002** SeqNo: **302238**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-9628** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719I**
Client ID: **ZZZZZ** Batch ID: **9628** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/19/2002** SeqNo: **302236**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	239.5	5.0	250	0	95.8	80	120	0	0		

Sample ID: **057949-006AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719I**
Client ID: **ZZZZZ** Batch ID: **9628** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/19/2002** SeqNo: **302221**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	493.5	5.0	250	237.8	102	47	128	0	0		

Sample ID: **057949-016AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719I**
Client ID: **ZZZZZ** Batch ID: **9628** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/19/2002** SeqNo: **302233**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	174.5	5.0	250	25.48	59.6	47	128	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9628

Sample ID: **057949-006ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719I**
Client ID: **ZZZZZ** Batch ID: **9628** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/19/2002** SeqNo: **302220**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	246.4	5.0	0	0	0	0	0	237.8	3.52	30	

Sample ID: **057949-016ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719I**
Client ID: **ZZZZZ** Batch ID: **9628** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/19/2002** SeqNo: **302232**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	19.58	5.0	0	0	0	0	0	25.48	26.2	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9792

Sample ID: **MB-9792** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020726F**
Client ID: **ZZZZZ** Batch ID: **9792** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307047**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9792A** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/23/2002** Run ID: **AA2_020726F**
Client ID: **ZZZZZ** Batch ID: **9792** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307050**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9792B** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/23/2002** Run ID: **AA2_020726F**
Client ID: **ZZZZZ** Batch ID: **9792** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307062**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.08255	0.20									

Sample ID: **LCS-9792** SampType: **LCS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020726F**
Client ID: **ZZZZZ** Batch ID: **9792** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307076**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.472	0.20	7.5	0	99.6	80	120	0	0		

Sample ID: **057948-012AMS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020726F**
Client ID: **570-618-0** Batch ID: **9792** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307061**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	33.04	0.80	20	13.4	98.2	80	120	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9792

Sample ID: **057948-048AMS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020726F**
Client ID: **570-616-0** Batch ID: **9792** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307074**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	74.97	2.0	50	22.91	104	80	120	0	0		

Sample ID: **057948-012ADUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/23/2002** Run ID: **AA2_020726F**
Client ID: **570-618-0** Batch ID: **9792** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307060**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	13.47	0.40	0	0	0	0	0	13.4	0.486	30	

Sample ID: **057948-048ADUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/23/2002** Run ID: **AA2_020726F**
Client ID: **570-616-0** Batch ID: **9792** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307073**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	22.43	0.80	0	0	0	0	0	22.91	2.08	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9793

Sample ID: **MB-9793** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020726G**
Client ID: **ZZZZZ** Batch ID: **9793** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307077**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9793A** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/23/2002** Run ID: **AA2_020726G**
Client ID: **ZZZZZ** Batch ID: **9793** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307078**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.09485	0.20									

Sample ID: **MB-9793B** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/23/2002** Run ID: **AA2_020726G**
Client ID: **ZZZZZ** Batch ID: **9793** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307089**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-9793** SampType: **LCS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020726G**
Client ID: **ZZZZZ** Batch ID: **9793** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307105**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.434	0.20	7.5	0	99.1	80	120	0	0		

Sample ID: **057949-022AMS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020726G**
Client ID: **ZZZZZ** Batch ID: **9793** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307088**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	82.09	1.6	40	40.73	103	80	120	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
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Calculations are based on raw values
DO - Surrogate diluted out
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BatchID: 9793

Sample ID: **057950-036AMS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020726G**
Client ID: **ZZZZZ** Batch ID: **9793** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307103**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.423	0.20	5	3.156	85.3	80	120	0	0		

Sample ID: **057949-022ADUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/23/2002** Run ID: **AA2_020726G**
Client ID: **ZZZZZ** Batch ID: **9793** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307087**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	49.38	1.6	0	0	0	0	0	40.73	19.2	30	

Sample ID: **057950-036ADUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/23/2002** Run ID: **AA2_020726G**
Client ID: **ZZZZZ** Batch ID: **9793** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307102**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.444	0.20	0	0	0	0	0	3.156	74.4	30	R

Qualifiers:
ND - Not Detected at the Reporting Limit
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9911

Sample ID: **MB-9911** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/27/2002** Run ID: **AA2_020729A**
Client ID: **ZZZZZ** Batch ID: **9911** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/29/2002** SeqNo: **309016**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9911A** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/29/2002** Run ID: **AA2_020729A**
Client ID: **ZZZZZ** Batch ID: **9911** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/29/2002** SeqNo: **309017**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-9911** SampType: **LCS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/29/2002** Run ID: **AA2_020729A**
Client ID: **ZZZZZ** Batch ID: **9911** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/29/2002** SeqNo: **309022**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.465	0.20	7.5	0	99.5	80	120	0	0		

Sample ID: **057948-009AMS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/29/2002** Run ID: **AA2_020729A**
Client ID: **570-617-0** Batch ID: **9911** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/29/2002** SeqNo: **309020**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	59.47	1.6	40	21.06	96	80	120	0	0		

Sample ID: **057948-009ADUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/27/2002** Run ID: **AA2_020729A**
Client ID: **570-617-0** Batch ID: **9911** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/29/2002** SeqNo: **309019**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	22.96	0.80	0	0	0	0	0	21.06	8.63	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Ninyo & Moore
Work Order: 057948
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 9954

Sample ID: **MB-9954** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802I**
Client ID: **ZZZZZ** Batch ID: **9954** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312395**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.08713	0.20									

Sample ID: **MB-9954A** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020802I**
Client ID: **ZZZZZ** Batch ID: **9954** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312396**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.07562	0.20									

Sample ID: **MB-9954B** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020802I**
Client ID: **ZZZZZ** Batch ID: **9954** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312409**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-9954** SampType: **LCS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802I**
Client ID: **ZZZZZ** Batch ID: **9954** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312423**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.228	0.20	7.5	0	96.4	80	120	0	0		

Sample ID: **057932-011AMS** SampType: **MS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802I**
Client ID: **ZZZZZ** Batch ID: **9954** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312408**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.117	0.20	5	0.1064	100	80	120	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Ninyo & Moore
Work Order: 057948
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 9954

Sample ID: **057948-036AMS** SampType: **MS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802I**
Client ID: **570-613-0.6** Batch ID: **9954** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312421**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.204	0.20	5	0.07566	103	80	120	0	0		

Sample ID: **057932-011ADUP** SampType: **DUP** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020802I**
Client ID: **ZZZZZ** Batch ID: **9954** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312407**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20	0	0	0	0	0	0.1064	0	30	

Sample ID: **057948-036ADUP** SampType: **DUP** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020802I**
Client ID: **570-613-0.6** Batch ID: **9954** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312420**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.118	0.20	0	0	0	0	0	0.07566	0	30	J

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Ninyo & Moore
Work Order: 057948
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 9955

Sample ID: **MB-9955** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802J**
Client ID: **ZZZZZ** Batch ID: **9955** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312424**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.08662	0.20									

Sample ID: **MB-9955A** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020802J**
Client ID: **ZZZZZ** Batch ID: **9955** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312425**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.09847	0.20									

Sample ID: **MB-9955B** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020802J**
Client ID: **ZZZZZ** Batch ID: **9955** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312438**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-9955** SampType: **LCS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802J**
Client ID: **ZZZZZ** Batch ID: **9955** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312452**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.203	0.20	7.5	0	96	80	120	0	0		

Sample ID: **057949-022AMS** SampType: **MS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802J**
Client ID: **ZZZZZ** Batch ID: **9955** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312437**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.286	0.20	5	0.1897	102	80	120	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Ninyo & Moore
Work Order: 057948
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 9955

Sample ID: **057950-038AMS** SampType: **MS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802J**
Client ID: **ZZZZZ** Batch ID: **9955** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312450**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.064	0.20	5	0	101	80	120	0	0		

Sample ID: **057949-022ADUP** SampType: **DUP** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020802J**
Client ID: **ZZZZZ** Batch ID: **9955** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312436**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.2015	0.20	0	0	0	0	0	0.1897	6.02	30	

Sample ID: **057950-038ADUP** SampType: **DUP** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020802J**
Client ID: **ZZZZZ** Batch ID: **9955** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312449**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20	0	0	0	0	0	0	0	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Ninyo & Moore
Work Order: 057948
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: R19605

Sample ID: **057948-024A-DUP** SampType: **DUP** TestCode: **9045_S** Units: **pH Units** Prep Date: **7/21/2002** Run ID: **WETCHEM_020721A**
Client ID: **570-621-0** Batch ID: **R19605** TestNo: **EPA 9045C** Analysis Date: **7/21/2002** SeqNo: **302534**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	8.085	0.10	0	0	0	0	0	8.086	0.0124	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Ninyo & Moore
Work Order: 057948
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: R19606

Sample ID: **057950-044A-DUP** SampType: **DUP** TestCode: **9045_S** Units: **pH Units** Prep Date: **7/21/2002** Run ID: **WETCHEM_020721B**
Client ID: **ZZZZZ** Batch ID: **R19606** TestNo: **EPA 9045C** Analysis Date: **7/21/2002** SeqNo: **302547**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	8.102	0.10	0	0	0	0	0	8.005	1.20	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

Rachelle

From: Steve Reese [sreese@ninyoandmoore.com]
Sent: Wednesday, July 31, 2002 9:27 AM
To: 'rachelle@atlglobal.com'
Cc: David Shaler (E-mail); Ruth Cheung (E-mail)
Subject: TCLP Analysis

TCLP.xls

Rachelle,
Attached please find a list of samples to be run for the TCLP analysis. Currently, we selected all of the samples that are greater than 1,000 mg/kg of TTLC results. However, they will be ran by instruction only. There may be more samples chosen for TCLP analysis in the future, but please run these 82 samples for now. Please call with any questions.
Thank you, Steve

Stephen S. Reese
Senior Staff Environmental Scientist
Ninyo & Moore Geotechnical & Environmental Sciences Consultants
475 Goddard, Suite 200
Irvine, California 92618
Tel: (949) 753-7070
Fax: (949) 753-7071
Email: sreese@ninyoandmoore.com
www.ninyoandmoore.com

RUN FOR TCLP ANALYSIS			
33	20	29	82
569-101-0	570-101-0	571-104-0	
569-102-0	570-101-0.6	571-120-0	
569-102-0.3	570-102-0.6	571-310-0.9	
569-102-0.9	570-103-1.5	571-317-0	
569-111-0	570-114-0.6	571-320-0	
569-112-0	570-115-0	571-325-0.6	
569-112-0.6	570-119-0.3	571-507-0	
569-201-0	570-201-0	571-511-0	
569-212-0	570-214-0	571-514-0	
569-301-0	570-311-0.6	571-524-0	
569-303-0.9	570-312-0.6	571-710-0	
569-314-0	570-504-0	571-710-0.3	
569-401-0	570-508-0	571-711-0	
569-404-0.6	570-517-0	571-711-0.3	
569-405-0.6	570-517-0.3	571-712-0	
569-408-0.9	570-610-0.6	571-712-0.3	
569-502-0.6	570-615-0	571-201-0.6	
569-516-0	570-706-0	571-405-0	
569-603-0.3	570-709-0	571-406-0	
569-607-0	570-808-0.6	571-407-0	
569-607-0.3		571-414-0	
569-609-0		571-609-0	
569-609-0.3		571-611-0	
569-703-0		571-616-0	
569-703-0.9		571-617-0	
569-705-0		571-619-1.5	
569-705-0.3		571-814-0.3	
569-706-0		571-818-0.6	
569-708-0		571-819-0	
569-710-0			
569-711-0			
569-711-0.3			
569-801-0.3			

Rachelle

From: Ruth Cheung [rcheung@ninyoandmoore.com]
Sent: Tuesday, August 06, 2002 3:46 PM
To: 'Rachelle'; 'David Shaler (E-mail)'
Subject: Title 22 Metals

Title 22 Metals.xls

Rachelle,
Please run the following samples for Title 22 Metals. Please do not list
Pb in your emailed results. There should be a total of 120 samples to be
run.
Thanks.

Ruth L. Cheung
Staff Environmental Scientist
Ninyo & Moore
(949) 753-7070 x2273

569-102-0.9	570-101-0	571-101-0.9
569-112-0	570-101-0.6	571-104-0
569-201-0	570-201-0	571-201-0.6
569-206-0.6	570-205-0.9	571-108-1.5
569-106-1.5	570-106-0.3	571-111-0.3
569-212-0	570-208-1.5	571-207-0
569-401-0.6	570-111-0.6	571-210-0.6
569-301-0	570-214-0	571-115-0.9
569-303-0.9	570-115-0.3	571-214-0.3
569-404-0.6	570-119-0.9	571-120-0
569-408-0.9	570-224-0.6	571-217-1.5
569-314-0	570-401-0	571-220-0.6
569-313-0.3	570-401-0.3	571-301-0.3
569-502-0.6	570-304-1.5	571-405-0
569-602-1.5	570-307-0.9	571-306-0.9
569-607-0.3	570-311-0.6	571-407-0
569-607-0	570-312-0.6	571-310-0.9
569-508-0.9	570-316-0.3	571-315-0.3
569-511-0.6	570-601-0	571-412-1.5
569-612-1.5	570-505-1.5	571-317-0
569-516-0	570-508-0	571-320-0.6
569-801-0.3	570-610-0.6	571-416-0.9
569-519-0.6	570-511-0.9	571-325-0.3
569-803-0.9	570-615-0	571-421-1.5
569-705-0	570-514-0.3	571-425-0
569-806-1.5	570-517-0	571-501-0.6
569-708-0.3	570-618-0.6	571-503-0.9
569-711-0	570-621-1.5	571-603-0.3
569-811-0	570-703-0.9	571-507-0
	570-804-0	571-609-0
	570-706-0	571-510-1.5
	570-709-0	571-611-0
	570-808-0.6	571-514-0
	570-711-1.5	571-614-0.3
	570-812-0.3	571-517-0.9
		571-617-0.6
		571-520-1.5
		571-621-0.3
		571-524-0
		571-624-0.9
		571-529-0.3
		571-628-0.6
		571-703-1.5
		571-707-0
		571-804-0.9
		571-809-0.3
		571-711-0
		571-712-0
		571-814-0.3
		571-818-0.6
		571-819-0
		571-827-1.5

571-832-0.9
571-836-0.3
571-837-0.6
571-842-0

Rachelle

From: Ruth Cheung [rcheung@ninyoandmoore.com]
Sent: Wednesday, August 07, 2002 10:28 AM
To: 'Rachelle'
Subject: RE: Title 22 Metals

Sorry for the mistake. Please change to the following:
569-602-1.5 to 0.6
569-803-0.9 to 0.6
571-217-1.5 to 0.6
571-320-0.6 to 0
571-421-1.5 to 0
571-503-0.9 to 0.6
571-510-1.5 to 0.6
571-520-1.5 to 0
571-703-1.5 to 0.6
571-804-0.9 to 0.6
571-827-1.5 to 0.3
571-837-0.6 to 0.3
570-119-0.9 to 0.6
570-208-1.5 to 0.3
570-621-1.5 to 0.3
570-703-0.9 to 0.3

thanks.

Ruth L. Cheung
Staff Environmental Scientist
Ninyo & Moore
(949) 753-7070 x2273

-----Original Message-----
From: Rachelle [SMTP:Rachelle@ATLGlobal.com]
Sent: Wednesday, August 07, 2002 9:49 AM
To: 'Ruth Cheung'
Subject: RE: Title 22 Metals

Hi Ruth,
Please check if the following samples exist, I don't see it on our database:
569-602-1.5
569-803-0.9
571-217-1.5
571-320-0.6
571-421-1.5
571-503-0.9
571-510-1.5
571-520-1.5
571-703-1.5
571-804-0.9
571-827-1.5
571-837-0.6
570-119-0.9
570-208-1.5
570-621-1.5
570-703-0.9
If it does exist, can you let me know when it was collected so I can track
them.
Thanks,
Rachelle
-----Original Message-----
From: Ruth Cheung [mailto:rcheung@ninyoandmoore.com]

Sent: Tuesday, August 06, 2002 3:46 PM
To: 'Rachelle'; 'David Shaler (E-mail)'
Subject: Title 22 Metals

Rachelle,
Please run the following samples for Title 22 Metals. Please do not list
Pb in your emailed results. There should be a total of 120 samples to be
run.
Thanks.

Ruth L. Cheung
Staff Environmental Scientist
Ninyo & Moore
(949) 753-7070 x2273

Rachelle

From: Ruth Cheung [rcheung@ninyoandmoore.com]
Sent: Thursday, August 08, 2002 9:14 AM
To: 'Rachelle'
Subject: TCLP Analysis

TCLP-3.xls

In addition to the 90 TCLP already run please run the following samples for
TCLP. There should be a list of 350 samples.
Thanks for a the hard work and timely results.

Ruth L. Cheung
Staff Environmental Scientist
Ninyo & Moore
(949) 753-7070 x2273

-----Original Message-----
From: Rachelle [SMTP:Rachelle@ATLGlobal.com]
Sent: Wednesday, August 07, 2002 5:02 PM
To: 'David Shaler (E-mail)'
Cc: 'Ruth Cheung (E-mail)'
Subject: TCLP Results

<<57931TCLP.xls>> <<58001TCLP.xls>> <<58021TCLP.xls>>
<<58022TCLP.xls>>
<<58023TCLP.xls>> <<58024TCLP.xls>> <<58049TCLP.xls>>
<<58050TCLP.xls>>
<<58052TCLP.xls>> <<58053TCLP.xls>> <<58065TCLP.xls>>
<<58066TCLP.xls>>
<<58067TCLP.xls>> <<58068TCLP.xls>> <<58069TCLP.xls>>

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<< File: 57931TCLP.xls >> << File: 58001TCLP.xls >> << File: 58021TCLP.xls >> << File: 58022TCLP.xls >> << File: 58023TCLP.xls >> << File: 58024TCLP.xls >> << File: 58049TCLP.xls >> << File: 58050TCLP.xls >> << File: 58052TCLP.xls >> << File: 58053TCLP.xls >> << File: 58065TCLP.xls >> << File: 58066TCLP.xls >> << File: 58067TCLP.xls >> << File: 58068TCLP.xls >> << File: 58069TCLP.xls >>

569-404-0	2. STLC	170
569-402-0	2. STLC	130
569-406-0	2. STLC	120
569-515-0	2. STLC	110
569-611-0	2. STLC	100
569-409-0	2. STLC	94
569-603-0	2. STLC	93
569-104-0.6	2. STLC	91
569-807-0	2. STLC	86
569-608-0	2. STLC	86
569-501-0	2. STLC	84
569-710-0.3	2. STLC	83
569-808-0	2. STLC	83
569-609-0.6	2. STLC	80
569-803-0	2. STLC	79
569-105-0	2. STLC	78
569-512-0	2. STLC	77
569-513-0	2. STLC	77
569-302-0	2. STLC	74
569-805-0	2. STLC	73
569-517-0	2. STLC	71
569-704-0.3	2. STLC	71
569-703-0.6	2. STLC	70
569-514-0.3	2. STLC	70
569-803-0.3	2. STLC	69
569-409-0.6	2. STLC	69
569-411-0	2. STLC	68
569-102-0.6	2. STLC	68
569-809-0	2. STLC	65
569-605-0	2. STLC	65
569-711-0.6	2. STLC	62
569-806-0	2. STLC	60
569-802-0.3	2. STLC	60
569-410-0	2. STLC	59
569-501-0.6	2. STLC	59
569-808-0.3	2. STLC	58
569-104-0	2. STLC	56
569-804-0	2. STLC	54
569-610-0	2. STLC	54
569-608-0.3	2. STLC	53
569-213-0	2. STLC	49
569-701-0	2. STLC	47
569-311-0	2. STLC	47
569-609-0.9	2. STLC	46
569-513-0.3	2. STLC	45
569-801-0.6	2. STLC	44
569-514-0	2. STLC	42
569-805-0.6	2. STLC	42
569-408-1.5	2. STLC	42
569-807-0.3	2. STLC	40
569-204-0	2. STLC	40
569-517-0.3	2. STLC	36
569-518-0	2. STLC	36
569-806-0.3	2. STLC	36
569-705-1.5	2. STLC	35
569-303-0.6	2. STLC	34
569-516-0.3	2. STLC	33
569-705-0.6	2. STLC	33
569-802-0	2. STLC	33
569-515-0.6	2. STLC	32
569-704-0	2. STLC	32
569-401-0.3	2. STLC	32
569-207-0	2. STLC	32
569-608-0.6	2. STLC	31
569-104-0.3	2. STLC	31
569-201-0.6	2. STLC	30
569-515-0.3	2. STLC	28
569-212-0.6	2. STLC	28
569-103-0	2. STLC	28
569-313-0	2. STLC	27
569-103-0.3	2. STLC	26
569-705-0.9	2. STLC	25
569-707-0.3	2. STLC	25
569-515-1.5	2. STLC	24
569-508-0	2. STLC	24
569-801-0	2. STLC	24
569-402-0.6	2. STLC	24
569-516-0.6	2. STLC	22
569-509-0.3	2. STLC	22
569-106-0	2. STLC	22
569-106-0.3	2. STLC	22
569-202-0	2. STLC	21
569-805-1.5	2. STLC	21
569-205-0	2. STLC	20
569-707-0	2. STLC	19

570-515-0.3	2. STLC	120
570-811-0	2. STLC	110
570-114-0.0	2. STLC	110
570-504-0.6	2. STLC	100
570-811-1.5	2. STLC	90
570-615-0.6	2. STLC	84
570-305-0	2. STLC	79
570-314-0.6	2. STLC	76
570-505-0.6	2. STLC	75
570-208-0.6	2. STLC	74
570-116-0.0	2. STLC	73
570-102-0	2. STLC	65
570-804-0.6	2. STLC	64
570-704-0	2. STLC	63
570-508-0.6	2. STLC	60
570-706-0.3	2. STLC	60
570-303-0	2. STLC	59
570-311-1.5	2. STLC	58
570-117-0.0	2. STLC	58
570-208-0.3	2. STLC	58
570-709-0.6	2. STLC	57
570-703-0	2. STLC	55
570-206-0	2. STLC	54
570-301-0	2. STLC	53
570-603-0.3	2. STLC	46
570-711-0.6	2. STLC	46
570-206-0.3	2. STLC	45
570-103-0	2. STLC	44
570-602-0	2. STLC	41
570-209-0	2. STLC	40
570-210-0	2. STLC	40
570-117-0.3	2. STLC	39
570-103-0.6	2. STLC	37
570-110-0.6	2. STLC	37
570-805-0.9	2. STLC	36
570-112-1.5	2. STLC	35
570-614-0	2. STLC	34
570-713-0.3	2. STLC	33
570-513-0	2. STLC	32
570-312-0.3	2. STLC	31
570-503-0.6	2. STLC	31
570-510-0.6	2. STLC	31
570-202-0	2. STLC	31
570-207-0	2. STLC	31
570-209-0.3	2. STLC	31
570-703-0.3	2. STLC	30
570-401-0	2. STLC	30
570-610-0.9	2. STLC	29
570-809-0.6	2. STLC	29
570-509-0.9	2. STLC	29
570-210-0.6	2. STLC	29
570-211-0	2. STLC	29
570-603-0	2. STLC	28
570-119-0	2. STLC	28
570-713-0.6	2. STLC	28
570-108-0	2. STLC	27
570-708-0.6	2. STLC	27
570-224-0	2. STLC	26
570-601-0	2. STLC	26
570-710-0.6	2. STLC	26
570-614-0.6	2. STLC	26
570-118-0.3	2. STLC	26
570-304-0	2. STLC	25
570-707-0.6	2. STLC	25
570-510-0	2. STLC	25
570-110-0	2. STLC	24
570-223-0	2. STLC	24
570-117-0.6	2. STLC	24
570-616-0	2. STLC	23
570-704-0.3	2. STLC	22
570-513-0.6	2. STLC	22
570-221-0.0	2. STLC	22
570-617-0	2. STLC	21
570-214-0.3	2. STLC	21
570-122-0.9	2. STLC	20
570-313-0.6	2. STLC	19
570-207-0.6	2. STLC	19
570-120-0.9	2. STLC	18
570-506-0	2. STLC	18
570-102-0.9	2. STLC	17
570-216-0	2. STLC	17
570-225-0	2. STLC	17
570-304-0.3	2. STLC	17
570-409-0	2. STLC	17
570-713-0	2. STLC	17

571-521-0	2. STLC	230
571-324-0.9	2. STLC	110
571-818-0	2. STLC	110
571-819-0.6	2. STLC	110
571-708-0	2. STLC	110
571-103-0.6	2. STLC	110
571-617-0.3	2. STLC	100
571-611-0.6	2. STLC	92
571-712-0.9	2. STLC	81
571-105-0.6	2. STLC	81
571-313-0	2. STLC	79
571-508-0	2. STLC	73
571-518-0.3	2. STLC	73
571-217-0	2. STLC	68
571-516-0	2. STLC	66
571-701-0.3	2. STLC	66
571-710-0.6	2. STLC	65
571-512-0	2. STLC	64
571-308-0.9	2. STLC	61
571-701-0	2. STLC	61
571-514-0.3	2. STLC	59
571-415-0	2. STLC	58
571-616-0.6	2. STLC	57
571-517-0	2. STLC	56
571-112-0.9	2. STLC	56
571-214-0	2. STLC	55
571-415-0.3	2. STLC	55
571-405-0.6	2. STLC	55
571-530-0	2. STLC	55
571-831-0	2. STLC	53
571-709-0	2. STLC	53
571-103-0.0	2. STLC	52
571-312-0	2. STLC	51
571-526-0	2. STLC	51
571-819-1.5	2. STLC	51
571-515-0	2. STLC	50
571-833-0	2. STLC	49
571-815-0.6	2. STLC	47
571-517-0.3	2. STLC	46
571-610-0	2. STLC	46
571-413-0	2. STLC	46
571-815-0	2. STLC	45
571-514-0.9	2. STLC	44
571-505-1.5	2. STLC	44
571-528-0	2. STLC	44
571-610-0.6	2. STLC	43
571-629-0	2. STLC	43
571-604-0	2. STLC	42
571-213-0	2. STLC	41
571-812-0	2. STLC	41
571-706-0	2. STLC	41
571-530-0.6	2. STLC	41
571-305-0	2. STLC	40
571-523-0.3	2. STLC	39
571-510-0	2. STLC	39
571-305-0.9	2. STLC	39
571-818-1.5	2. STLC	39
571-703-0	2. STLC	38
571-520-0.3	2. STLC	36
571-216-0	2. STLC	34
571-827-0	2. STLC	34
571-708-0.3	2. STLC	34
571-514-0.6	2. STLC	33
571-528-1.5	2. STLC	33
571-803-0	2. STLC	33
571-414-0.3	2. STLC	33
571-813-0.3	2. STLC	32
571-523-0	2. STLC	31
571-326-0	2. STLC	31
571-502-0.6	2. STLC	31
571-624-1.5	2. STLC	31
571-330-0	2. STLC	31
571-512-0.3	2. STLC	30
571-521-0.6	2. STLC	29
571-706-0.3	2. STLC	29
571-814-0.6	2. STLC	28
571-616-1.5	2. STLC	28
571-835-0	2. STLC	28
571-811-0.3	2. STLC	28
571-101-0.6	2. STLC	28
571-112-0	2. STLC	28
571-315-0	2. STLC	27
571-622-0	2. STLC	27
571-607-0.6	2. STLC	27
571-609-0.6	2. STLC	27

569-709-0	2. STLC	19
569-202-0.3	2. STLC	19
569-602-0	2. STLC	19
569-207-0.3	2. STLC	19
569-706-0.3	2. STLC	17
569-807-0.9	2. STLC	17
569-104-0.9	2. STLC	17
569-505-0.6	2. STLC	17
569-704-0.6	2. STLC	16
569-808-0.6	2. STLC	16
569-212-0.3	2. STLC	16
569-612-0	2. STLC	16
569-704-1.5	2. STLC	15
569-411-0.3	2. STLC	15
569-113-0	2. STLC	15
569-807-0.6	2. STLC	14
569-311-0.3	2. STLC	12
569-312-0	2. STLC	10
569-311-0.9	2. STLC	8.3

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570-401-0.3	2. STLC	17
570-616-0.6	2. STLC	17
570-308-0	2. STLC	16
570-807-0.9	2. STLC	16
570-701-0.6	2. STLC	16
570-617-0.3	2. STLC	16
570-107-0.6	2. STLC	15
570-811-0.6	2. STLC	15
570-707-0	2. STLC	15
570-518-0	2. STLC	15
570-111-0.0	2. STLC	15
570-109-0.6	2. STLC	14
570-401-0.9	2. STLC	4.1
570-408-0	2. STLC	4
570-409-0.3	2. STLC	3
570-401-0.6		0
570-401-1.5		0
570-408-0.6		0
570-408-1.5		0

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571-837-0.3	2. STLC	27
571-520-0	2. STLC	26
571-516-0.3	2. STLC	26
571-420-0	2. STLC	26
571-102-0.6	2. STLC	26
571-517-1.5	2. STLC	25
571-513-0.6	2. STLC	25
571-623-0.6	2. STLC	25
571-112-0.3	2. STLC	25
571-326-0.6	2. STLC	24
571-619-0.3	2. STLC	24
571-619-0.9	2. STLC	24
571-528-0.3	2. STLC	24
571-706-0.6	2. STLC	24
571-112-0.6	2. STLC	24
571-327-0.6	2. STLC	23
571-817-0	2. STLC	23
571-425-0.6	2. STLC	22
571-118-0	2. STLC	22
571-829-0	2. STLC	22
571-828-0	2. STLC	22
571-122-0	2. STLC	21
571-101-1.5	2. STLC	21
571-530-0.3	2. STLC	21
571-406-0.6	2. STLC	20
571-517-0.6	2. STLC	20
571-835-0.3	2. STLC	20
571-501-0	2. STLC	20
571-518-0.9	2. STLC	19
571-510-0.3	2. STLC	19
571-814-0.9	2. STLC	19
571-522-0.6	2. STLC	19
571-622-1.5	2. STLC	19
571-812-0.6	2. STLC	19
571-701-0.6	2. STLC	19
571-704-0	2. STLC	19
571-711-0.6	2. STLC	19
571-212-0	2. STLC	18
571-839-0.6	2. STLC	18
571-610-1.5	2. STLC	18
571-709-0.3	2. STLC	18
571-311-0.6	2. STLC	17
571-620-0	2. STLC	17
571-109-0	2. STLC	17
571-704-0.3	2. STLC	17
571-207-1.5	2. STLC	16
571-203-0	2. STLC	16
571-616-0.3	2. STLC	16
571-317-0.3	2. STLC	16
571-629-0.3	2. STLC	16
571-416-0	2. STLC	15
571-419-0	2. STLC	15
571-526-0.3	2. STLC	15
571-619-0	2. STLC	15
571-606-0	2. STLC	15
571-115-0.6	2. STLC	14
571-202-0.9	2. STLC	11

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tblTEMP

WorkOrder	ClientSampID	TestNo	Analyte	PQL	DF	CollectionDate	AnalDate	PrepDate
057948	570-227-0	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/17/2002
057948	570-227-0	EPA 9045C	pH	0.1	1	7/16/2002	7/21/2002	7/21/2002
057948	570-227-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/17/2002
057948	570-227-0.3	WET/ EPA 7420	Lead	0.2	1	7/16/2002	7/26/2002	7/23/2002
057948	570-401-0	EPA 1311/ 7420	Lead	0.2	1	7/16/2002	8/16/2002	8/15/2002
057948	570-401-0	EPA 6010B	Antimony	2.5	10	7/16/2002	8/10/2002	8/9/2002
057948	570-401-0	EPA 6010B	Arsenic	2.5	10	7/16/2002	8/10/2002	8/9/2002
057948	570-401-0	EPA 6010B	Barium	1.5	10	7/16/2002	8/10/2002	8/9/2002
057948	570-401-0	EPA 6010B	Beryllium	1.5	10	7/16/2002	8/10/2002	8/9/2002
057948	570-401-0	EPA 6010B	Cadmium	1.5	10	7/16/2002	8/10/2002	8/9/2002
057948	570-401-0	EPA 6010B	Chromium	1.5	10	7/16/2002	8/10/2002	8/9/2002
057948	570-401-0	EPA 6010B	Cobalt	1.5	10	7/16/2002	8/10/2002	8/9/2002
057948	570-401-0	EPA 6010B	Copper	1.5	10	7/16/2002	8/10/2002	8/9/2002
057948	570-401-0	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/17/2002
057948	570-401-0	EPA 6010B	Molybdenum	2.5	10	7/16/2002	8/10/2002	8/9/2002
057948	570-401-0	EPA 6010B	Nickel	1.5	10	7/16/2002	8/10/2002	8/9/2002
057948	570-401-0	EPA 6010B	Selenium	2.5	10	7/16/2002	8/10/2002	8/9/2002
057948	570-401-0	EPA 6010B	Silver	1.5	10	7/16/2002	8/10/2002	8/9/2002
057948	570-401-0	EPA 6010B	Thallium	2.5	10	7/16/2002	8/10/2002	8/9/2002
057948	570-401-0	EPA 6010B	Vanadium	1.5	10	7/16/2002	8/10/2002	8/9/2002
057948	570-401-0	EPA 6010B	Zinc	5	10	7/16/2002	8/10/2002	8/9/2002
057948	570-401-0	EPA 7471A	Mercury	0.1	1	7/16/2002	8/9/2002	8/7/2002
057948	570-401-0	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057948	570-401-0	WET/ EPA 7420	Lead	0.8	4	7/16/2002	7/26/2002	7/23/2002
057948	570-401-0.3	EPA 1311/ 7420	Lead	0.2	1	7/16/2002	8/16/2002	8/15/2002
057948	570-401-0.3	EPA 6010B	Antimony	2.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-401-0.3	EPA 6010B	Arsenic	2.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-401-0.3	EPA 6010B	Barium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-401-0.3	EPA 6010B	Beryllium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-401-0.3	EPA 6010B	Cadmium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-401-0.3	EPA 6010B	Chromium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-401-0.3	EPA 6010B	Cobalt	1.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-401-0.3	EPA 6010B	Copper	1.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-401-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/17/2002
057948	570-401-0.3	EPA 6010B	Molybdenum	2.5	10	7/16/2002	8/10/2002	8/8/2002

057948	570-401-0.3	EPA 6010B	Nickel	1.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-401-0.3	EPA 6010B	Selenium	2.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-401-0.3	EPA 6010B	Silver	1.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-401-0.3	EPA 6010B	Thallium	2.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-401-0.3	EPA 6010B	Vanadium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-401-0.3	EPA 6010B	Zinc	5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-401-0.3	EPA 7471A	Mercury	0.1	1	7/16/2002	8/9/2002	8/7/2002
057948	570-401-0.3	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057948	570-401-0.3	WET/ EPA 7420	Lead	0.4	2	7/16/2002	7/26/2002	7/23/2002
057948	570-401-0.6	EPA 1311/ 7420	Lead	0.2	1	7/16/2002	8/15/2002	8/14/2002
057948	570-401-0.6	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/17/2002
057948	570-401-0.9	EPA 1311/ 7420	Lead	0.2	1	7/16/2002	8/15/2002	8/14/2002
057948	570-401-0.9	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/18/2002
057948	570-401-0.9	WET/ EPA 7420	Lead	0.2	1	7/16/2002	7/26/2002	7/23/2002
057948	570-401-1.5	EPA 1311/ 7420	Lead	0.2	1	7/16/2002	8/15/2002	8/14/2002
057948	570-401-1.5	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/18/2002
057948	570-613-0.6	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/18/2002
057948	570-613-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057948	570-613-0.6	WET/ EPA 7420	Lead	0.4	2	7/16/2002	7/26/2002	7/23/2002
057948	570-613-0.9	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/18/2002
057948	570-614-0	EPA 1311/ 7420	Lead	0.2	1	7/16/2002	8/15/2002	8/14/2002
057948	570-614-0	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/18/2002
057948	570-614-0	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057948	570-614-0	WET/ EPA 7420	Lead	0.8	4	7/16/2002	7/26/2002	7/23/2002
057948	570-614-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/18/2002
057948	570-614-0.3	WET/ EPA 7420	Lead	0.2	1	7/16/2002	7/26/2002	7/23/2002
057948	570-614-0.6	EPA 1311/ 7420	Lead	0.2	1	7/16/2002	8/15/2002	8/14/2002
057948	570-614-0.6	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/18/2002
057948	570-614-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057948	570-614-0.6	WET/ EPA 7420	Lead	0.8	4	7/16/2002	7/26/2002	7/23/2002
057948	570-614-0.9	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/18/2002
057948	570-614-1.5	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/18/2002
057948	570-615-0	EPA 1311/ 7420	Lead	0.2	1	7/16/2002	8/6/2002	8/5/2002
057948	570-615-0	EPA 6010B	Antimony	2.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-615-0	EPA 6010B	Arsenic	2.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-615-0	EPA 6010B	Barium	1.5	10	7/16/2002	8/10/2002	8/8/2002

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057948	570-615-0	EPA 6010B	Beryllium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-615-0	EPA 6010B	Cadmium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-615-0	EPA 6010B	Chromium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-615-0	EPA 6010B	Cobalt	1.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-615-0	EPA 6010B	Copper	1.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-615-0	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/18/2002
057948	570-615-0	EPA 6010B	Molybdenum	2.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-615-0	EPA 6010B	Nickel	1.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-615-0	EPA 6010B	Selenium	2.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-615-0	EPA 6010B	Silver	1.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-615-0	EPA 6010B	Thallium	2.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-615-0	EPA 6010B	Vanadium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-615-0	EPA 6010B	Zinc	5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-615-0	EPA 7471A	Mercury	0.1	1	7/16/2002	8/9/2002	8/7/2002
057948	570-615-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/18/2002
057948	570-615-0.6	EPA 1311/ 7420	Lead	0.2	1	7/16/2002	8/15/2002	8/14/2002
057948	570-615-0.6	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/18/2002
057948	570-615-0.6	EPA 9045C	pH	0.1	1	7/16/2002	7/21/2002	7/21/2002
057948	570-615-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057948	570-615-0.6	WET/ EPA 7420	Lead	2	10	7/16/2002	7/26/2002	7/23/2002
057948	570-615-0.9	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/18/2002
057948	570-615-1.5	EPA 6010B	Lead	5	1	7/16/2002	7/19/2002	7/18/2002
057948	570-616-0	EPA 1311/ 7420	Lead	0.2	1	7/16/2002	8/15/2002	8/14/2002
057948	570-616-0	EPA 6010B	Lead	5	1	7/16/2002	7/19/2002	7/18/2002
057948	570-616-0	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057948	570-616-0	WET/ EPA 7420	Lead	0.8	4	7/16/2002	7/26/2002	7/23/2002
057948	570-616-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/19/2002	7/18/2002
057948	570-616-0.3	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057948	570-616-0.3	WET/ EPA 7420	Lead	0.2	1	7/16/2002	7/26/2002	7/23/2002
057948	570-616-0.6	EPA 1311/ 7420	Lead	0.2	1	7/16/2002	8/15/2002	8/14/2002
057948	570-616-0.6	EPA 6010B	Lead	5	1	7/16/2002	7/19/2002	7/18/2002
057948	570-616-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057948	570-616-0.6	WET/ EPA 7420	Lead	0.4	2	7/16/2002	7/26/2002	7/23/2002
057948	570-616-0.9	EPA 6010B	Lead	5	1	7/16/2002	7/19/2002	7/18/2002
057948	570-617-0	EPA 1311/ 7420	Lead	0.2	1	7/16/2002	8/16/2002	8/15/2002
057948	570-617-0	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/18/2002

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057948	570-617-0	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057948	570-617-0	WET/ EPA 7420	Lead	0.8	4	7/16/2002	7/29/2002	7/27/2002
057948	570-617-0.3	EPA 1311/ 7420	Lead	0.2	1	7/16/2002	8/15/2002	8/14/2002
057948	570-617-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/18/2002
057948	570-617-0.3	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057948	570-617-0.3	WET/ EPA 7420	Lead	0.4	2	7/16/2002	7/26/2002	7/23/2002
057948	570-617-0.6	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/18/2002
057948	570-618-0	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/18/2002
057948	570-618-0	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057948	570-618-0	WET/ EPA 7420	Lead	0.4	2	7/16/2002	7/26/2002	7/23/2002
057948	570-618-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/18/2002
057948	570-618-0.3	EPA 9045C	pH	0.1	1	7/16/2002	7/21/2002	7/21/2002
057948	570-618-0.6	EPA 6010B	Antimony	2.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-618-0.6	EPA 6010B	Arsenic	2.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-618-0.6	EPA 6010B	Barium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-618-0.6	EPA 6010B	Beryllium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-618-0.6	EPA 6010B	Cadmium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-618-0.6	EPA 6010B	Chromium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-618-0.6	EPA 6010B	Cobalt	1.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-618-0.6	EPA 6010B	Copper	1.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-618-0.6	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/18/2002
057948	570-618-0.6	EPA 6010B	Molybdenum	2.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-618-0.6	EPA 6010B	Nickel	1.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-618-0.6	EPA 6010B	Selenium	2.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-618-0.6	EPA 6010B	Silver	1.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-618-0.6	EPA 6010B	Thallium	2.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-618-0.6	EPA 6010B	Vanadium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-618-0.6	EPA 6010B	Zinc	5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-618-0.6	EPA 7471A	Mercury	0.1	1	7/16/2002	8/9/2002	8/7/2002
057948	570-618-0.9	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/18/2002
057948	570-618-1.5	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/18/2002
057948	570-619-0	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/18/2002
057948	570-619-0	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057948	570-619-0	WET/ EPA 7420	Lead	0.2	1	7/16/2002	7/26/2002	7/23/2002
057948	570-619-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/18/2002
057948	570-619-0.6	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/18/2002

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057948	570-619-0.9	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/18/2002
057948	570-619-1.5	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/18/2002
057948	570-620-0	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/18/2002
057948	570-620-0	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057948	570-620-0	WET/ EPA 7420	Lead	0.2	1	7/16/2002	7/26/2002	7/23/2002
057948	570-620-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/18/2002
057948	570-621-0	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/18/2002
057948	570-621-0	EPA 9045C	pH	0.1	1	7/16/2002	7/21/2002	7/21/2002
057948	570-621-0	WET/ EPA 7420	Lead	0.2	1	7/16/2002	7/26/2002	7/23/2002
057948	570-621-0.3	EPA 6010B	Antimony	2.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-621-0.3	EPA 6010B	Arsenic	2.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-621-0.3	EPA 6010B	Barium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-621-0.3	EPA 6010B	Beryllium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-621-0.3	EPA 6010B	Cadmium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-621-0.3	EPA 6010B	Chromium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-621-0.3	EPA 6010B	Cobalt	1.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-621-0.3	EPA 6010B	Copper	1.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-621-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/18/2002
057948	570-621-0.3	EPA 6010B	Molybdenum	2.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-621-0.3	EPA 6010B	Nickel	1.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-621-0.3	EPA 6010B	Selenium	2.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-621-0.3	EPA 6010B	Silver	1.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-621-0.3	EPA 6010B	Thallium	2.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-621-0.3	EPA 6010B	Vanadium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-621-0.3	EPA 6010B	Zinc	5	10	7/16/2002	8/10/2002	8/8/2002
057948	570-621-0.3	EPA 7471A	Mercury	0.1	1	7/16/2002	8/13/2002	8/7/2002
057948	570-621-0.6	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/18/2002
057948	570-801-0	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/18/2002
057948	570-801-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/18/2002
057948	570-801-0.6	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/18/2002
057948	570-801-0.9	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/18/2002
057948	570-801-1.5	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/18/2002
057948	570-802-0	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/18/2002
057948	570-802-0	WET/ EPA 7420	Lead	0.2	1	7/16/2002	7/26/2002	7/23/2002
057948	570-802-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/18/2002
057948	570-802-0.6	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/18/2002

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057948	570-802-0.9	EPA 6010B	Lead	5	1	7/16/2002	7/18/2002	7/18/2002
057948	570-802-0.9	EPA 9045C	pH	0.1	1	7/16/2002	7/21/2002	7/21/2002
057948	EB-5	EPA 6010B	Lead	0.005	1	7/16/2002	7/18/2002	7/17/2002

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August 19, 2002

David Shaler
Ninyo & Moore
475 Goddard Suite 200
Irvine, CA 92618
TEL: (949) 753-7070
FAX: (949) 753-7071

ELAP No.: 1838
NELAP No.: 02107CA
Workorder No.: 057950

RE: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

Attention: David Shaler

Enclosed are the results for sample(s) received on July 16, 2002 by Advanced Technology Laboratories and tested for the parameters indicated in the enclosed chain of custody.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

for

Eddie F. Rodriguez
Laboratory Director

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AUG 2 6 2002
NINYO & MOORE
ORANGE COUNTY OFFICE

This cover letter is an integral part of this analytical report.

Laboratory	Site	Consultant
Advanced Technology Laboratories	Caltrans/I-10 (605-57)/Lead Survey	Ninyo & Moore - David Shaler/Steve Reese
3275 Walnut Avenue, Signal Hill, CA 90807	TO 07-117070-PX	475 Goddard, Suite 200, Irvine, CA 92618
Tel. (562) 989-4045 Fax (562) 989-6348	Project # 203939001	Tel. (949) 753-7070 Fax (949) 753-7071

Special Instructions
See Project specifications. 5 Day TAT

Relinquished by: (name/date/time) 7-16-02 — Received by: (name/date/time) 7-16-02 4:00p

Relinquished by: (name/date/time) 7-16-02 8:00p — Received by: (name/date/time) 7/16/02 8:00pm

Lab No	Sample I.D	Date	Time	Sample container P=plastic B=brass	Analyses: Total Lead EPA Method 6010	Analyses: pH EPA Method 9045
	EB-7	7-16-02	5:30	P	X	
	570-110-0	7-16-02	8:45	B	X	X
	570-110-0.3		8:47		X	
	570-110-0.6		8:50		X	
	570-110-0.9		8:53		X	
	570-316-0		9:30		X	
	570-316-0.3		9:33		X	
	570-316-0.6		9:35		X	
	570-316-0.9		9:36		X	
	570-316-1.5		9:38		X	
	570-315-0		9:40		X	
	570-315-0.3		9:41		X	X
	570-315-0.6		9:42		X	
	570-315-0.9		9:44		X	
	570-315-1.5		9:48		X	
	570-314-0		9:55		X	
	570-314-0.3		9:57		X	
	570-314-0.6		9:59		X	
	570-314-0.9		10:01		X	
	570-314-1.5		10:03		X	
	570-313-0		10:09		X	
	570-313-0.3		10:10		X	X
	570-313-0.6		10:12		X	
	570-313-0.9		10:14		X	
	570-313-1.5		10:16		X	
	570-312-0		10:20		X	
	570-312-0.3		10:22		X	
	570-312-0.6		10:24		X	
	570-312-0.9		10:26		X	
	570-312-1.5		10:28		X	
	570-311-0		10:44		X	
	570-311-0.3		10:45		X	
	570-311-0.6		10:48		X	X
	570-311-0.9		10:52		X	
	570-311-1.5		10:57		X	
	570-309-0		12:16		X	
	570-309-0.3		12:18		X	
	570-308-0		12:31		X	
	570-308-0.3		12:33		X	
	570-308-0.6		12:36		X	
	570-308-0.9		12:39		X	
	570-308-1.5		12:41		X	
	570-307-0		12:57		X	
	570-307-0.3		12:59		X	X
	570-307-0.6		13:00		X	
	570-307-0.9		13:02		X	
	570-307-1.5		13:04		X	
	570-610-0		13:35		X	
	570-610-0.3		13:38		X	
	570-610-0.6		13:40		X	
	570-610-0.9		13:42		X	
	570-611-0		13:50		X	
	570-611-0.3		13:53		X	
	570-612-0		14:05		X	
	570-612-0.3		14:07		X	X
	570-612-0.6		14:09		X	
	570-612-0.9		14:10		X	
	570-612-1.5		14:12		X	
	570-613-0		14:20		X	
	570-613-0.3		14:22		X	

Total # of samples: 60

Advanced Technology Laboratories

Date: *22-Jul-02*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	EB-7
Lab Order:	057950		
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Collection Date:**	7/16/2002 3:30:00 PM
Lab ID:	057950-001A	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
LEAD BY ICP	**(EPA 3010A)**			**EPA 6010B**		
RunID: ICP2_020718D	QC Batch: 9624					Analyst: **RQ**
Lead	ND	0.0050		mg/L	1	7/18/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: 7/22/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057950
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/16/2002 8:00:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057950-002A	570-110-0	160	mg/Kg	9629	5	1	7/16/2002	7/22/2002
057950-003A	570-110-0.3	93	mg/Kg	9629	5	1	7/16/2002	7/22/2002
057950-004A	570-110-0.6	310	mg/Kg	9629	5	1	7/16/2002	7/22/2002
057950-005A	570-110-0.9	7.9	mg/Kg	9629	5	1	7/16/2002	7/22/2002
057950-006A	570-316-0	22	mg/Kg	9629	5	1	7/16/2002	7/22/2002
057950-007A	570-316-0.3	17	mg/Kg	9629	5	1	7/16/2002	7/22/2002
057950-008A	570-316-0.6	39	mg/Kg	9629	5	1	7/16/2002	7/22/2002
057950-009A	570-316-0.9	16	mg/Kg	9629	5	1	7/16/2002	7/22/2002
057950-010A	570-316-1.5	ND	mg/Kg	9629	5	1	7/16/2002	7/22/2002
057950-011A	570-315-0	48	mg/Kg	9629	5	1	7/16/2002	7/22/2002
057950-012A	570-315-0.3	9.3	mg/Kg	9629	5	1	7/16/2002	7/22/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
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Advanced Technology Laboratories

Date: 7/22/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057950
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/16/2002 8:00:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057950-013A	570-315-0.6	50	mg/Kg	9630	5	1	7/16/2002	7/19/2002
057950-014A	570-315-0.9	5.6	mg/Kg	9630	5	1	7/16/2002	7/19/2002
057950-015A	570-315-1.5	6.7	mg/Kg	9630	5	1	7/16/2002	7/19/2002
057950-016A	570-314-0	120	mg/Kg	9630	5	1	7/16/2002	7/19/2002
057950-017A	570-314-0.3	13	mg/Kg	9630	5	1	7/16/2002	7/19/2002
057950-018A	570-314-0.6	920	mg/Kg	9630	5	1	7/16/2002	7/19/2002
057950-019A	570-314-0.9	9.5	mg/Kg	9630	5	1	7/16/2002	7/19/2002
057950-020A	570-314-1.5	49	mg/Kg	9630	5	1	7/16/2002	7/19/2002
057950-021A	570-313-0	17	mg/Kg	9630	5	1	7/16/2002	7/19/2002
057950-022A	570-313-0.3	10	mg/Kg	9630	5	1	7/16/2002	7/19/2002
057950-023A	570-313-0.6	160	mg/Kg	9630	5	1	7/16/2002	7/19/2002

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Advanced Technology Laboratories

Date: 7/22/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057950
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/16/2002 8:00:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057950-024A	570-313-0.9	9.8	mg/Kg	9630	5	1	7/16/2002	7/19/2002
057950-025A	570-313-1.5	24	mg/Kg	9630	5	1	7/16/2002	7/19/2002
057950-026A	570-312-0	45	mg/Kg	9630	5	1	7/16/2002	7/19/2002
057950-027A	570-312-0.3	490	mg/Kg	9630	5	1	7/16/2002	7/19/2002
057950-028A	570-312-0.6	1900	mg/Kg	9630	5	1	7/16/2002	7/19/2002
057950-029A	570-312-0.9	7.5	mg/Kg	9630	5	1	7/16/2002	7/19/2002
057950-030A	570-312-1.5	6.0	mg/Kg	9630	5	1	7/16/2002	7/19/2002
057950-031A	570-311-0	46	mg/Kg	9630	5	1	7/16/2002	7/19/2002
057950-032A	570-311-0.3	27	mg/Kg	9630	5	1	7/16/2002	7/19/2002
057950-033A	570-311-0.6	1500	mg/Kg	9631	5	1	7/16/2002	7/19/2002
057950-034A	570-311-0.9	19	mg/Kg	9631	5	1	7/16/2002	7/19/2002

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Advanced Technology Laboratories

Date: 7/22/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057950
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/16/2002 8:00:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057950-035A	570-311-1.5	670	mg/Kg	9631	5	1	7/16/2002	7/19/2002
057950-036A	570-309-0	85	mg/Kg	9631	5	1	7/16/2002	7/19/2002
057950-037A	570-309-0.3	96	mg/Kg	9631	5	1	7/16/2002	7/19/2002
057950-038A	570-308-0	220	mg/Kg	9631	5	1	7/16/2002	7/19/2002
057950-039A	570-308-0.3	11	mg/Kg	9631	5	1	7/16/2002	7/19/2002
057950-040A	570-308-0.6	7.3	mg/Kg	9631	5	1	7/16/2002	7/19/2002
057950-041A	570-308-0.9	12	mg/Kg	9631	5	1	7/16/2002	7/19/2002
057950-042A	570-308-1.5	8.6	mg/Kg	9631	5	1	7/16/2002	7/19/2002
057950-043A	570-307-0	8.7	mg/Kg	9631	5	1	7/16/2002	7/20/2002
057950-044A	570-307-0.3	130	mg/Kg	9631	5	1	7/16/2002	7/20/2002
057950-045A	570-307-0.6	24	mg/Kg	9631	5	1	7/16/2002	7/20/2002

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Advanced Technology Laboratories

Date: 7/22/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057950
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/16/2002 8:00:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057950-046A	570-307-0.9	12	mg/Kg	9631	5	1	7/16/2002	7/20/2002
057950-047A	570-307-1.5	7.6	mg/Kg	9631	5	1	7/16/2002	7/20/2002
057950-048A	570-610-0	72	mg/Kg	9631	5	1	7/16/2002	7/20/2002
057950-049A	570-610-0.3	9.6	mg/Kg	9631	5	1	7/16/2002	7/20/2002
057950-050A	570-610-0.6	1900	mg/Kg	9631	5	1	7/16/2002	7/20/2002
057950-051A	570-610-0.9	380	mg/Kg	9631	5	1	7/16/2002	7/20/2002
057950-052A	570-611-0	200	mg/Kg	9631	5	1	7/16/2002	7/20/2002
057950-053A	570-611-0.3	6.8	mg/Kg	9632	5	1	7/16/2002	7/20/2002
057950-054A	570-612-0	5.2	mg/Kg	9632	5	1	7/16/2002	7/20/2002
057950-055A	570-612-0.3	25	mg/Kg	9632	5	1	7/16/2002	7/20/2002
057950-056A	570-612-0.6	55	mg/Kg	9632	5	1	7/16/2002	7/20/2002

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Date: 7/22/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057950
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/16/2002 8:00:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057950-057A	570-612-09	ND	mg/Kg	9632	5	1	7/16/2002	7/20/2002
057950-058A	570-612-1.5	ND	mg/Kg	9632	5	1	7/16/2002	7/20/2002
057950-059A	570-613-0	80	mg/Kg	9632	5	1	7/16/2002	7/20/2002
057950-060A	570-613-0.3	7.9	mg/Kg	9632	5	1	7/16/2002	7/20/2002

Qualifiers:

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DO - Surrogate Diluted Out
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H - Sample exceeded analytical holding time
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Advanced Technology Laboratories
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Advanced Technology Laboratories

Date: 7/22/2002

pH
EPA 9045C

CLIENT:	Ninyo & Moore	**Lab Order:**	057950
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/16/2002 8:00:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057950-002A	570-110-0	7.64	pH Units	R19606	0.1	1	7/16/2002	7/21/2002
057950-012A	570-315-0.3	8.26	pH Units	R19606	0.1	1	7/16/2002	7/21/2002
057950-022A	570-313-0.3	8.49	pH Units	R19606	0.1	1	7/16/2002	7/21/2002
057950-033A	570-311-0.6	7.71	pH Units	R19606	0.1	1	7/16/2002	7/21/2002
057950-044A	570-307-0.3	8.01	pH Units	R19606	0.1	1	7/16/2002	7/21/2002
057950-055A	570-612-0.3	8.93	pH Units	R19607	0.1	1	7/16/2002	7/21/2002

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Advanced Technology Laboratories

Date: 7/29/2002

LEAD BY ATOMIC ABSORPTION WET/ EPA 7420

CLIENT: Ninyo & Moore
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Project No:
PO No:

Lab Order: 057950
Date Received: 7/16/2002 8:00:0
Matrix: Soil
Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057950-002A	570-110-0	24	mg/L	9793	0.8	4	7/16/2002	7/26/2002
057950-003A	570-110-0.3	8.9	mg/L	9793	0.2	1	7/16/2002	7/26/2002
057950-004A	570-110-0.6	37	mg/L	9793	0.8	4	7/16/2002	7/26/2002
057950-013A	570-315-0.6	4.2	mg/L	9793	0.2	1	7/16/2002	7/26/2002
057950-016A	570-314-0	8.9	mg/L	9793	0.2	1	7/16/2002	7/26/2002
057950-018A	570-314-0.6	76	mg/L	9793	2	10	7/16/2002	7/26/2002
057950-023A	570-313-0.6	19	mg/L	9793	0.4	2	7/16/2002	7/26/2002
057950-027A	570-312-0.3	31	mg/L	9793	0.8	4	7/16/2002	7/26/2002
057950-035A	570-311-1.5	58	mg/L	9793	2	10	7/16/2002	7/26/2002
057950-036A	570-309-0	3.2	mg/L	9793	0.2	1	7/16/2002	7/26/2002
057950-037A	570-309-0.3	6.1	mg/L	9795	0.2	1	7/16/2002	7/26/2002

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Advanced Technology Laboratories

Date: 7/29/2002

LEAD BY ATOMIC ABSORPTION
WET/ EPA 7420

CLIENT:	Ninyo & Moore	**Lab Order:**	057950
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/16/2002 8:00:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057950-038A	570-308-0	16	mg/L	9795	0.4	2	7/16/2002	7/26/2002
057950-044A	570-307-0.3	ND	mg/L	9795	0.2	1	7/16/2002	7/26/2002
057950-048A	570-610-0	4.7	mg/L	9795	0.2	1	7/16/2002	7/26/2002
057950-051A	570-610-0.9	29	mg/L	9795	0.8	4	7/16/2002	7/26/2002
057950-052A	570-611-0	12	mg/L	9795	0.4	2	7/16/2002	7/26/2002
057950-056A	570-612-0.6	2.1	mg/L	9795	0.2	1	7/16/2002	7/26/2002
057950-059A	570-613-0	1.9	mg/L	9795	0.2	1	7/16/2002	7/26/2002

Qualifiers:

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Advanced Technology Laboratories

Date: 8/5/2002

LEAD BY ATOMIC ABSORPTION
WET DI/ EPA 7420

CLIENT: Ninyo & Moore
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Project No:
PO No:

Lab Order: 057950
Date Received: 7/16/2002 8:00:0
Matrix: Soil
Analyst: NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057950-002A	570-110-0	ND	mg/L	9955	0.2	1	7/16/2002	8/2/2002
057950-003A	570-110-0.3	ND	mg/L	9955	0.2	1	7/16/2002	8/2/2002
057950-004A	570-110-0.6	ND	mg/L	9955	0.2	1	7/16/2002	8/2/2002
057950-016A	570-314-0	ND	mg/L	9955	0.2	1	7/16/2002	8/2/2002
057950-018A	570-314-0.6	ND	mg/L	9955	0.2	1	7/16/2002	8/2/2002
057950-023A	570-313-0.6	ND	mg/L	9955	0.2	1	7/16/2002	8/2/2002
057950-027A	570-312-0.3	ND	mg/L	9955	0.2	1	7/16/2002	8/2/2002
057950-035A	570-311-1.5	0.41	mg/L	9955	0.2	1	7/16/2002	8/2/2002
057950-037A	570-309-0.3	ND	mg/L	9955	0.2	1	7/16/2002	8/2/2002
057950-038A	570-308-0	ND	mg/L	9955	0.2	1	7/16/2002	8/2/2002
057950-051A	570-610-0.9	ND	mg/L	9956	0.2	1	7/16/2002	8/2/2002

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Advanced Technology Laboratories
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Advanced Technology Laboratories

Date: 8/5/2002

LEAD BY ATOMIC ABSORPTION
WET DI/ EPA 7420

CLIENT:	Ninyo & Moore	**Lab Order:**	057950
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/16/2002 8:00:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057950-052A	570-611-0	ND	mg/L	9956	0.2	1	7/16/2002	8/2/2002

Qualifiers:

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Date: *13-Aug-02*

CLIENT: Ninyo & Moore
Lab Order: 057950
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Lab ID: 057950-007A

Client Sample ID: 570-316-0.3
Collection Date: 7/16/2002 9:33:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS	**(EPA 3050A)**			**EPA 6010B**		
RunID: ICP2_020810C	QC Batch: 10210					Analyst: **RQ**
Antimony	ND	2.5		mg/Kg	10	8/10/2002
Arsenic	15	2.5		mg/Kg	10	8/10/2002
Barium	160	1.5		mg/Kg	10	8/10/2002
Beryllium	ND	1.5		mg/Kg	10	8/10/2002
Cadmium	ND	1.5		mg/Kg	10	8/10/2002
Chromium	15	1.5		mg/Kg	10	8/10/2002
Cobalt	15	1.5		mg/Kg	10	8/10/2002
Copper	25	1.5		mg/Kg	10	8/10/2002
Molybdenum	ND	2.5		mg/Kg	10	8/10/2002
Nickel	15	1.5		mg/Kg	10	8/10/2002
Selenium	ND	2.5		mg/Kg	10	8/10/2002
Silver	ND	1.5		mg/Kg	10	8/10/2002
Thallium	2.6	2.5		mg/Kg	10	8/10/2002
Vanadium	55	1.5		mg/Kg	10	8/10/2002
Zinc	70	5.0		mg/Kg	10	8/10/2002
MERCURY BY COLD VAPOR TECHNIQUE	**(EPA 7471)**			**EPA 7471A**		
RunID: AA1_020809B	QC Batch: 10165					Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1	8/9/2002

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Date: *13-Aug-02*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	570-312-0.6
Lab Order:	057950		
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Collection Date:**	7/16/2002 10:24:00 AM
Lab ID:	057950-028A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS						
	(EPA 3050A)			**EPA 6010B**		
RunID: ICP2_020810C	QC Batch: 10210					Analyst: **RQ**
Antimony	2.9	2.5		mg/Kg	10	8/10/2002
Arsenic	10	2.5		mg/Kg	10	8/10/2002
Barium	270	1.5		mg/Kg	10	8/10/2002
Beryllium	ND	1.5		mg/Kg	10	8/10/2002
Cadmium	ND	1.5		mg/Kg	10	8/10/2002
Chromium	30	1.5		mg/Kg	10	8/10/2002
Cobalt	10	1.5		mg/Kg	10	8/10/2002
Copper	130	1.5		mg/Kg	10	8/10/2002
Molybdenum	5.0	2.5		mg/Kg	10	8/10/2002
Nickel	35	1.5		mg/Kg	10	8/10/2002
Selenium	ND	2.5		mg/Kg	10	8/10/2002
Silver	ND	1.5		mg/Kg	10	8/10/2002
Thallium	ND	2.5		mg/Kg	10	8/10/2002
Vanadium	30	1.5		mg/Kg	10	8/10/2002
Zinc	710	5.0		mg/Kg	10	8/10/2002
MERCURY BY COLD VAPOR TECHNIQUE						
	(EPA 7471)			**EPA 7471A**		
RunID: AA1_020809B	QC Batch: 10165					Analyst: **NS**
Mercury	0.30	0.10		mg/Kg	1	8/9/2002

Qualifiers:

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S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
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Advanced Technology Laboratories
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Advanced Technology Laboratories

Date: *13-Aug-02*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	570-311-0.6
Lab Order:	057950		
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Collection Date:**	7/16/2002 10:48:00 AM
Lab ID:	057950-033A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS						
(EPA 3050A)				**EPA 6010B**		
RunID: ICP2_020810C	QC Batch: 10210					Analyst: **RQ**
Antimony	ND	2.5		mg/Kg	10	8/10/2002
Arsenic	10	2.5		mg/Kg	10	8/10/2002
Barium	210	1.5		mg/Kg	10	8/10/2002
Beryllium	ND	1.5		mg/Kg	10	8/10/2002
Cadmium	ND	1.5		mg/Kg	10	8/10/2002
Chromium	20	1.5		mg/Kg	10	8/10/2002
Cobalt	15	1.5		mg/Kg	10	8/10/2002
Copper	140	1.5		mg/Kg	10	8/10/2002
Molybdenum	5.0	2.5		mg/Kg	10	8/10/2002
Nickel	40	1.5		mg/Kg	10	8/10/2002
Selenium	ND	2.5		mg/Kg	10	8/10/2002
Silver	ND	1.5		mg/Kg	10	8/10/2002
Thallium	2.5	2.5		mg/Kg	10	8/10/2002
Vanadium	25	1.5		mg/Kg	10	8/10/2002
Zinc	660	5.0		mg/Kg	10	8/10/2002
MERCURY BY COLD VAPOR TECHNIQUE						
(EPA 7471)				**EPA 7471A**		
RunID: AA1_020809B	QC Batch: 10165					Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1	8/9/2002

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DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: *13-Aug-02*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	570-307-0.9
Lab Order:	057950		
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Collection Date:**	7/16/2002 1:02:00 PM
Lab ID:	057950-046A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS						
	(EPA 3050A)			**EPA 6010B**		
RunID: ICP2_020810C	QC Batch: 10210					Analyst: **RQ**
Antimony	ND	2.5		mg/Kg	10	8/10/2002
Arsenic	10	2.5		mg/Kg	10	8/10/2002
Barium	100	1.5		mg/Kg	10	8/10/2002
Beryllium	ND	1.5		mg/Kg	10	8/10/2002
Cadmium	ND	1.5		mg/Kg	10	8/10/2002
Chromium	5.0	1.5		mg/Kg	10	8/10/2002
Cobalt	5.0	1.5		mg/Kg	10	8/10/2002
Copper	15	1.5		mg/Kg	10	8/10/2002
Molybdenum	ND	2.5		mg/Kg	10	8/10/2002
Nickel	5.0	1.5		mg/Kg	10	8/10/2002
Selenium	ND	2.5		mg/Kg	10	8/10/2002
Silver	ND	1.5		mg/Kg	10	8/10/2002
Thallium	ND	2.5		mg/Kg	10	8/10/2002
Vanadium	35	1.5		mg/Kg	10	8/10/2002
Zinc	45	5.0		mg/Kg	10	8/10/2002
MERCURY BY COLD VAPOR TECHNIQUE						
	(EPA 7471)			**EPA 7471A**		
RunID: AA1_020809B	QC Batch: 10165					Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1	8/9/2002

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Advanced Technology Laboratories

Date: *13-Aug-02*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	570-610-0.6
Lab Order:	057950		
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Collection Date:**	7/16/2002 1:40:00 PM
Lab ID:	057950-050A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS						
	(EPA 3050A)			**EPA 6010B**		
RunID: ICP2_020810D	QC Batch: 10211					Analyst: **RQ**
Antimony	ND	2.5		mg/Kg	10	8/10/2002
Arsenic	10	2.5		mg/Kg	10	8/10/2002
Barium	180	1.5		mg/Kg	10	8/10/2002
Beryllium	ND	1.5		mg/Kg	10	8/10/2002
Cadmium	ND	1.5		mg/Kg	10	8/10/2002
Chromium	25	1.5		mg/Kg	10	8/10/2002
Cobalt	10	1.5		mg/Kg	10	8/10/2002
Copper	90	1.5		mg/Kg	10	8/10/2002
Molybdenum	4.1	2.5		mg/Kg	10	8/10/2002
Nickel	30	1.5		mg/Kg	10	8/10/2002
Selenium	ND	2.5		mg/Kg	10	8/10/2002
Silver	ND	1.5		mg/Kg	10	8/10/2002
Thallium	ND	2.5		mg/Kg	10	8/10/2002
Vanadium	50	1.5		mg/Kg	10	8/10/2002
Zinc	600	5.0		mg/Kg	10	8/10/2002
MERCURY BY COLD VAPOR TECHNIQUE						
	(EPA 7471)			**EPA 7471A**		
RunID: AA1_020809C	QC Batch: 10166					Analyst: **NS**
Mercury	0.13	0.10		mg/Kg	1	8/9/2002

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Advanced Technology Laboratories

Date: 8/19/2002

LEAD BY ATOMIC ABSORPTION
EPA 1311/ 7420

CLIENT:	Ninyo & Moore	**Lab Order:**	057950
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/16/2002 8:00:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057950-002A	570-110-0	0.69	mg/L	10346	0.2	1	7/16/2002	8/14/2002
057950-004A	570-110-0.6	19	mg/L	10398	0.4	2	7/16/2002	8/16/2002
057950-018A	570-314-0.6	3.9	mg/L	10398	0.2	1	7/16/2002	8/16/2002
057950-023A	570-313-0.6	1.0	mg/L	10346	0.2	1	7/16/2002	8/14/2002
057950-027A	570-312-0.3	0.23	mg/L	10346	0.2	1	7/16/2002	8/14/2002
057950-028A	570-312-0.6	0.72	mg/L	10086	0.2	1	7/16/2002	8/6/2002
057950-033A	570-311-0.6	5.8	mg/L	10086	0.2	1	7/16/2002	8/6/2002
057950-035A	570-311-1.5	2.5	mg/L	10346	0.2	1	7/16/2002	8/14/2002
057950-038A	570-308-0	0.25	mg/L	10347	0.2	1	7/16/2002	8/14/2002
057950-050A	570-610-0.6	12	mg/L	10087	0.4	2	7/16/2002	8/6/2002
057950-051A	570-610-0.9	0.84	mg/L	10347	0.2	1	7/16/2002	8/14/2002

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Advanced Technology Laboratories

Date: *19-Aug-02*

CLIENT: Ninyo & Moore
Work Order: 057950
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10086

Sample ID: **MB-10086** SampType: **mblk** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806G**
Client ID: **ZZZZZ** Batch ID: **10086** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314586**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-10076-TCLP** SampType: **mblk** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806G**
Client ID: **ZZZZZ** Batch ID: **10086** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314587**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.07372	0.20									

Sample ID: **LCS-10086** SampType: **lcs** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806G**
Client ID: **ZZZZZ** Batch ID: **10086** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314601**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.172	0.20	1	0	117	80	120	0	0		

Sample ID: **057950-033AMS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806G**
Client ID: **570-311-0.6** Batch ID: **10086** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314599**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	8.972	0.20	2.5	5.811	126	80	120	0	0		S

Sample ID: **057950-033ADUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806G**
Client ID: **570-311-0.6** Batch ID: **10086** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314598**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	6.054	0.20	0	0	0	0	0	5.811	4.09	30	

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Calculations are based on raw values
DO - Surrogate diluted out
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CLIENT: Ninyo & Moore
Work Order: 057950
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10087

Sample ID: **MB-10087** SampType: **mblk** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806H**
Client ID: **ZZZZZ** Batch ID: **10087** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314602**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-10078-TCLP** SampType: **mblk** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806H**
Client ID: **ZZZZZ** Batch ID: **10087** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314603**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-10087** SampType: **lcs** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806H**
Client ID: **ZZZZZ** Batch ID: **10087** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314617**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.184	0.20	1	0	118	80	120	0	0		

Sample ID: **057978-007AMS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806H**
Client ID: **ZZZZZ** Batch ID: **10087** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314615**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.241	0.20	2.717	0.09022	116	80	120	0	0		

Sample ID: **057978-007ADUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806H**
Client ID: **ZZZZZ** Batch ID: **10087** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314614**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20	0	0	0	0	0	0.09022	0	30	

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DO - Surrogate diluted out
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CLIENT: Ninyo & Moore
Work Order: 057950
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10165

Sample ID: **MB-10165** SampType: **mblk** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809B**
Client ID: **ZZZZZ** Batch ID: **10165** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316099**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: **LCS-10165** SampType: **lcs** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809B**
Client ID: **ZZZZZ** Batch ID: **10165** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316098**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.113	0.10	2.08	0	102	80	120	0	0		

Sample ID: **057950-046AMS** SampType: **MS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809B**
Client ID: **570-307-0.9** Batch ID: **10165** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316096**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.995	0.10	0.83	0.03709	115	62	146	0	0		

Sample ID: **057950-046AMSD** SampType: **MSD** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809B**
Client ID: **570-307-0.9** Batch ID: **10165** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316097**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.9358	0.10	0.83	0.03709	108	62	146	0.995	6.13	33	

Sample ID: **057950-046ADUP** SampType: **DUP** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809B**
Client ID: **570-307-0.9** Batch ID: **10165** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316095**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.04672	0.10	0	0	0	0	0	0.03709	0	30	J

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CLIENT: Ninyo & Moore
Work Order: 057950
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10166

Sample ID: **MB-10166** SampType: **mblk** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809C**
Client ID: **ZZZZZ** Batch ID: **10166** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316736**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: **LCS-10166** SampType: **lcs** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809C**
Client ID: **ZZZZZ** Batch ID: **10166** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316735**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.239	0.10	2.08	0	108	80	120	0	0		

Sample ID: **057974-014AMS** SampType: **MS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809C**
Client ID: **ZZZZZ** Batch ID: **10166** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316733**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.9807	0.10	0.83	0.03978	113	62	146	0	0		

Sample ID: **057974-014AMSD** SampType: **MSD** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809C**
Client ID: **ZZZZZ** Batch ID: **10166** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316734**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.183	0.10	0.83	0.03978	138	62	146	0.9807	18.7	33	

Sample ID: **057974-014ADUP** SampType: **DUP** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809C**
Client ID: **ZZZZZ** Batch ID: **10166** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316732**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.03631	0.10	0	0	0	0	0	0.03978	0	30	J

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Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

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CLIENT: Ninyo & Moore
Work Order: 057950
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10210

Sample ID: **MB-10210** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP2_020810C**
Client ID: **ZZZZZ** Batch ID: **10210** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316575**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.0035	0.25									J
Arsenic	0.132	0.25									J
Barium	ND	0.15									
Beryllium	0.011	0.15									J
Cadmium	0.024	0.15									J
Chromium	ND	0.15									
Cobalt	0.002	0.15									J
Copper	ND	0.15									
Molybdenum	0.0075	0.25									J
Nickel	ND	0.15									
Selenium	ND	0.25									
Silver	0.0495	0.15									J
Thallium	0.075	0.25									J
Vanadium	ND	0.15									
Zinc	0.106	0.50									J

Sample ID: **LCS-10210** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP2_020810C**
Client ID: **ZZZZZ** Batch ID: **10210** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316576**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	46.5	0.25	50	0	93	80	120	0	0		
Arsenic	47	0.25	50	0	94	80	120	0	0		
Barium	51.5	0.15	50	0	103	80	120	0	0		
Beryllium	47.5	0.15	50	0	95	80	120	0	0		
Cadmium	46	0.15	50	0	92	80	120	0	0		
Chromium	49	0.15	50	0	98	80	120	0	0		
Cobalt	48	0.15	50	0	96	80	120	0	0		
Copper	49.5	0.15	50	0	99	80	120	0	0		
Molybdenum	48.5	0.25	50	0	97	80	120	0	0		
Nickel	46	0.15	50	0	92	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike/Surrogate outside limits due to matrix interference; DO - Surrogate diluted out
J - Analyte detected below quantitation limits; B - Analyte detected in the associated Method Blank; H - Sample exceeded holding time
R - RPD outside accepted recovery limits; **Calculations are based on raw values**

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ANALYTICAL QC SUMMARY REPORT

BatchID: 10210

Sample ID: **LCS-10210** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP2_020810C**
Client ID: **ZZZZZ** Batch ID: **10210** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316576**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	43	0.25	50	0	86	80	120	0	0		
Silver	48.5	0.15	50	0	97	80	120	0	0		
Thallium	49	0.25	50	0	98	80	120	0	0		
Vanadium	48.5	0.15	50	0	97	80	120	0	0		
Zinc	48	0.50	50	0	96	80	120	0	0		

Sample ID: **057950-046AMS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP2_020810C**
Client ID: **570-307-0.9** Batch ID: **10210** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316588**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	95	2.5	125	1.245	75	32	115	0	0		
Arsenic	125	2.5	125	10	92	59	111	0	0		
Barium	215	1.5	125	100	92	34	151	0	0		
Beryllium	120	1.5	125	0	96	56	112	0	0		
Cadmium	115	1.5	125	0	92	52	120	0	0		
Chromium	130	1.5	125	5	100	56	118	0	0		
Cobalt	130	1.5	125	5	100	58	117	0	0		
Copper	135	1.5	125	15	96	58	134	0	0		
Molybdenum	115	2.5	125	0.715	91.4	56	115	0	0		
Nickel	125	1.5	125	5	96	52	120	0	0		
Selenium	115	2.5	125	0	92	46	108	0	0		
Silver	120	1.5	125	0.24	95.8	74	117	0	0		
Thallium	125	2.5	125	0.745	99.4	62	117	0	0		
Vanadium	150	1.5	125	35	92	55	122	0	0		
Zinc	160	5.0	125	45	92	43	134	0	0		

Sample ID: **057950-046AMSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP2_020810C**
Client ID: **570-307-0.9** Batch ID: **10210** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316589**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

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ANALYTICAL QC SUMMARY REPORT

BatchID: 10210

Sample ID: **057950-046AMSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP2_020810C**
Client ID: **570-307-0.9** Batch ID: **10210** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316589**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	100	2.5	125	1.245	79	32	115	95	5.13	20	
Arsenic	135	2.5	125	10	100	59	111	125	7.69	20	
Barium	240	1.5	125	100	112	34	151	215	11.0	20	
Beryllium	130	1.5	125	0	104	56	112	120	8.00	20	
Cadmium	125	1.5	125	0	100	52	120	115	8.33	20	
Chromium	140	1.5	125	5	108	56	118	130	7.41	20	
Cobalt	135	1.5	125	5	104	58	117	130	3.77	20	
Copper	150	1.5	125	15	108	58	134	135	10.5	20	
Molybdenum	125	2.5	125	0.715	99.4	56	115	115	8.33	20	
Nickel	135	1.5	125	5	104	52	120	125	7.69	20	
Selenium	125	2.5	125	0	100	46	108	115	8.33	20	
Silver	130	1.5	125	0.24	104	74	117	120	8.00	20	
Thallium	135	2.5	125	0.745	107	62	117	125	7.69	20	
Vanadium	165	1.5	125	35	104	55	122	150	9.52	20	
Zinc	180	5.0	125	45	108	43	134	160	11.8	20	

Sample ID: **057950-046ADUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP2_020810C**
Client ID: **570-307-0.9** Batch ID: **10210** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316587**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.56	2.5	0	0	0	0	0	1.245	0	30	J
Arsenic	5	2.5	0	0	0	0	0	10	66.7	30	R
Barium	95	1.5	0	0	0	0	0	100	5.13	30	
Beryllium	ND	1.5	0	0	0	0	0	0	0	30	
Cadmium	ND	1.5	0	0	0	0	0	0	0	30	
Chromium	5	1.5	0	0	0	0	0	5	0	30	
Cobalt	5	1.5	0	0	0	0	0	5	0	30	
Copper	10	1.5	0	0	0	0	0	15	40.0	30	R
Molybdenum	0.095	2.5	0	0	0	0	0	0.715	0	30	J
Nickel	5	1.5	0	0	0	0	0	5	0	30	

Qualifiers: ND - Not Detected at the Reporting Limit
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BatchID: 10210

Sample ID: **057950-046ADUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP2_020810C**
Client ID: **570-307-0.9** Batch ID: **10210** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316587**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	ND	2.5	0	0	0	0	0	0	0	30	
Silver	0.275	1.5	0	0	0	0	0	0.24	0	30	J
Thallium	1.28	2.5	0	0	0	0	0	0.745	0	30	J
Vanadium	30	1.5	0	0	0	0	0	35	15.4	30	
Zinc	40	5.0	0	0	0	0	0	45	11.8	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
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ANALYTICAL QC SUMMARY REPORT

BatchID: 10211

Sample ID: **MB-10211** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP2_020810D**
Client ID: **ZZZZZ** Batch ID: **10211** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316604**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.011	0.25									J
Arsenic	ND	0.25									
Barium	0.002	0.15									J
Beryllium	0.011	0.15									J
Cadmium	0.0245	0.15									J
Chromium	ND	0.15									
Cobalt	0.02	0.15									J
Copper	ND	0.15									
Molybdenum	ND	0.25									
Nickel	ND	0.15									
Selenium	ND	0.25									
Silver	0.036	0.15									J
Thallium	0.1145	0.25									J
Vanadium	ND	0.15									
Zinc	0.2355	0.50									J

Sample ID: **LCS-10211** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP2_020810D**
Client ID: **ZZZZZ** Batch ID: **10211** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316590**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	47	0.25	50	0	94	80	120	0	0		
Arsenic	47.5	0.25	50	0	95	80	120	0	0		
Barium	52	0.15	50	0	104	80	120	0	0		
Beryllium	47	0.15	50	0	94	80	120	0	0		
Cadmium	46.5	0.15	50	0	93	80	120	0	0		
Chromium	49.5	0.15	50	0	99	80	120	0	0		
Cobalt	48	0.15	50	0	96	80	120	0	0		
Copper	49.5	0.15	50	0	99	80	120	0	0		
Molybdenum	48.5	0.25	50	0	97	80	120	0	0		
Nickel	46.5	0.15	50	0	93	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; S - Spike/Surrogate outside limits due to matrix interference; B - Analyte detected in the associated Method Blank; **Calculations are based on raw values**; DO - Surrogate diluted out; H - Sample exceeded holding time

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ANALYTICAL QC SUMMARY REPORT

BatchID: 10211

Sample ID: **LCS-10211** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP2_020810D**
Client ID: **ZZZZZ** Batch ID: **10211** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316590**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	43.5	0.25	50	0	87	80	120	0	0		
Silver	49	0.15	50	0	98	80	120	0	0		
Thallium	49.5	0.25	50	0	99	80	120	0	0		
Vanadium	48	0.15	50	0	96	80	120	0	0		
Zinc	48.5	0.50	50	0	97	80	120	0	0		

Sample ID: **057974-004AMS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP2_020810D**
Client ID: **ZZZZZ** Batch ID: **10211** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316602**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	65	2.5	125	1.445	50.8	32	115	0	0		
Arsenic	130	2.5	125	10	96	59	111	0	0		
Barium	255	1.5	125	145	88	34	151	0	0		
Beryllium	120	1.5	125	0	96	56	112	0	0		
Cadmium	115	1.5	125	0	92	52	120	0	0		
Chromium	145	1.5	125	20	100	56	118	0	0		
Cobalt	130	1.5	125	10	96	58	117	0	0		
Copper	190	1.5	125	55	108	58	134	0	0		
Molybdenum	120	2.5	125	2.09	94.3	56	115	0	0		
Nickel	135	1.5	125	20	92	52	120	0	0		
Selenium	120	2.5	125	0	96	46	108	0	0		
Silver	120	1.5	125	0.105	95.9	74	117	0	0		
Thallium	125	2.5	125	1.965	98.4	62	117	0	0		
Vanadium	160	1.5	125	45	92	55	122	0	0		
Zinc	405	5.0	125	365	32	43	134	0	0		S

Sample ID: **057974-004AMSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP2_020810D**
Client ID: **ZZZZZ** Batch ID: **10211** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316603**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

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ANALYTICAL QC SUMMARY REPORT

BatchID: 10211

Sample ID: **057974-004AMSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP2_020810D**
Client ID: **ZZZZZ** Batch ID: **10211** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316603**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	70	2.5	125	1.445	54.8	32	115	65	7.41	20	
Arsenic	125	2.5	125	10	92	59	111	130	3.92	20	
Barium	245	1.5	125	145	80	34	151	255	4.00	20	
Beryllium	115	1.5	125	0	92	56	112	120	4.26	20	
Cadmium	110	1.5	125	0	88	52	120	115	4.44	20	
Chromium	135	1.5	125	20	92	56	118	145	7.14	20	
Cobalt	125	1.5	125	10	92	58	117	130	3.92	20	
Copper	170	1.5	125	55	92	58	134	190	11.1	20	
Molybdenum	115	2.5	125	2.09	90.3	56	115	120	4.26	20	
Nickel	135	1.5	125	20	92	52	120	135	0	20	
Selenium	115	2.5	125	0	92	46	108	120	4.26	20	
Silver	115	1.5	125	0.105	91.9	74	117	120	4.26	20	
Thallium	125	2.5	125	1.965	98.4	62	117	125	0	20	
Vanadium	155	1.5	125	45	88	55	122	160	3.17	20	
Zinc	380	5.0	125	365	12	43	134	405	6.37	20	S

Sample ID: **057974-004ADUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP2_020810D**
Client ID: **ZZZZZ** Batch ID: **10211** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316601**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.765	2.5	0	0	0	0	0	1.445	0	30	J
Arsenic	10	2.5	0	0	0	0	0	10	0	30	
Barium	140	1.5	0	0	0	0	0	145	3.51	30	
Beryllium	ND	1.5	0	0	0	0	0	0	0	30	
Cadmium	ND	1.5	0	0	0	0	0	0	0	30	
Chromium	20	1.5	0	0	0	0	0	20	0	30	
Cobalt	10	1.5	0	0	0	0	0	10	0	30	
Copper	55	1.5	0	0	0	0	0	55	0	30	
Molybdenum	2.46	2.5	0	0	0	0	0	2.09	0	30	J
Nickel	20	1.5	0	0	0	0	0	20	0	30	

Qualifiers: ND - Not Detected at the Reporting Limit
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ANALYTICAL QC SUMMARY REPORT

BatchID: 10211

Sample ID: **057974-004ADUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP2_020810D**
Client ID: **ZZZZZ** Batch ID: **10211** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316601**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	ND	2.5	0	0	0	0	0	0	0	30	
Silver	0.24	1.5	0	0	0	0	0	0.105	0	30	J
Thallium	2.23	2.5	0	0	0	0	0	1.965	0	30	J
Vanadium	45	1.5	0	0	0	0	0	45	0	30	
Zinc	295	5.0	0	0	0	0	0	365	21.2	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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ANALYTICAL QC SUMMARY REPORT

BatchID: 10346

Sample ID: **MB-10346** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814O**
Client ID: **ZZZZZ** Batch ID: **10346** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **318904**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-10264-TCLP** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814O**
Client ID: **ZZZZZ** Batch ID: **10346** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **318905**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-10346** SampType: **LCS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814O**
Client ID: **ZZZZZ** Batch ID: **10346** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **318919**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.164	0.20	1	0	116	80	120	0	0		

Sample ID: **058049-054AMS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814O**
Client ID: **ZZZZZ** Batch ID: **10346** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **318917**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3:263	0.20	2.5	0.6036	106	80	120	0	0		

Sample ID: **058049-054ADUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814O**
Client ID: **ZZZZZ** Batch ID: **10346** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **318916**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.6097	0.20	0	0	0	0	0	0.6036	1.01	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
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Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

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ANALYTICAL QC SUMMARY REPORT

BatchID: 10347

Sample ID: **MB-10347** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814P**
Client ID: **ZZZZZ** Batch ID: **10347** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **318920**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-10265-TCLP** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814P**
Client ID: **ZZZZZ** Batch ID: **10347** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **318921**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-10347** SampType: **LCS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814P**
Client ID: **ZZZZZ** Batch ID: **10347** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **318935**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.078	0.20	1	0	108	80	120	0	0		

Sample ID: **057951-021AMS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814P**
Client ID: **ZZZZZ** Batch ID: **10347** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **318933**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.855	0.20	2.5	0.2692	103	80	120	0	0		

Sample ID: **057951-021ADUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/13/2002** Run ID: **AA2_020814P**
Client ID: **ZZZZZ** Batch ID: **10347** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/14/2002** SeqNo: **318932**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.2544	0.20	0	0	0	0	0	0.2692	5.66	30	

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 10398

Sample ID: **MB-10398** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/15/2002** Run ID: **AA2_020816A**
Client ID: **ZZZZZ** Batch ID: **10398** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/16/2002** SeqNo: **319792**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-10377-TCLP** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/15/2002** Run ID: **AA2_020816A**
Client ID: **ZZZZZ** Batch ID: **10398** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/16/2002** SeqNo: **319793**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20	0	0	0	0	0	0	0		

Sample ID: **LCS-10398** SampType: **LCS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/15/2002** Run ID: **AA2_020816A**
Client ID: **ZZZZZ** Batch ID: **10398** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/16/2002** SeqNo: **319807**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.058	0.20	1	0	106	80	120	0	0		

Sample ID: **057972-025AMS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/15/2002** Run ID: **AA2_020816A**
Client ID: **ZZZZZ** Batch ID: **10398** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/16/2002** SeqNo: **319805**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.851	0.20	2.5	0.3406	100	80	120	0	0		

Sample ID: **057972-025ADUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/15/2002** Run ID: **AA2_020816A**
Client ID: **ZZZZZ** Batch ID: **10398** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/16/2002** SeqNo: **319804**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.3508	0.20	0	0	0	0	0	0.3406	2.97	30	

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ANALYTICAL QC SUMMARY REPORT

BatchID: 9624

Sample ID: **MB-9624** SampType: **MBLK** TestCode: **6010_W** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718F**
Client ID: **ZZZZZ** Batch ID: **9624** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **301310**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0	0.0050									
Arsenic	0	0.0050									
Barium	0	0.0030									
Beryllium	0	0.0030									
Cadmium	0	0.0030									
Chromium	0	0.0030									
Cobalt	0	0.0030									
Copper	0	0.0030									
Lead	0	0.0050									
Molybdenum	0	0.0050									
Nickel	0	0.0030									
Selenium	0	0.0050									
Silver	0	0.0030									
Thallium	0	0.0050									
Vanadium	0	0.0030									
Zinc	0	0.010									

Sample ID: **LCS-9624** SampType: **LCS** TestCode: **6010_W** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718F**
Client ID: **ZZZZZ** Batch ID: **9624** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **301311**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	1.07	0.0050	1	0	107	80	120	0	0		
Arsenic	1.1	0.0050	1	0	110	80	120	0	0		
Barium	1.07	0.0030	1	0	107	80	120	0	0		
Beryllium	1.08	0.0030	1	0	108	80	120	0	0		
Cadmium	1.03	0.0030	1	0	103	80	120	0	0		
Chromium	1.06	0.0030	1	0	106	80	120	0	0		
Cobalt	1.03	0.0030	1	0	103	80	120	0	0		
Copper	1.04	0.0030	1	0	104	80	120	0	0		
Lead	1.03	0.0050	1	0	103	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9624

Sample ID: **LCS-9624** SampType: **LCS** TestCode: **6010_W** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718F**
Client ID: **ZZZZZ** Batch ID: **9624** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **301311**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	1.08	0.0050	1	0	108	80	120	0	0		
Nickel	1.01	0.0030	1	0	101	80	120	0	0		
Selenium	1.06	0.0050	1	0	106	80	120	0	0		
Silver	1.05	0.0030	1	0	105	80	120	0	0		
Thallium	1.07	0.0050	1	0	107	80	120	0	0		
Vanadium	1.1	0.0030	1	0	110	80	120	0	0		
Zinc	1.03	0.010	1	0	103	80	120	0	0		

Sample ID: **057952-059AMS** SampType: **MS** TestCode: **6010_W** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718F**
Client ID: **ZZZZZ** Batch ID: **9624** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **301314**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	2.57	0.0050	2.5	0	103	69	116	0	0		
Arsenic	2.55	0.0050	2.5	0	102	67	114	0	0		
Barium	2.58	0.0030	2.5	0.00284	103	63	125	0	0		
Beryllium	2.6	0.0030	2.5	0	104	60	117	0	0		
Cadmium	2.47	0.0030	2.5	0	98.8	63	123	0	0		
Chromium	2.58	0.0030	2.5	0	103	68	118	0	0		
Cobalt	2.5	0.0030	2.5	0	100	68	118	0	0		
Copper	2.63	0.0030	2.5	0	105	72	123	0	0		
Lead	2.43	0.0050	2.5	0	97.2	66	118	0	0		
Molybdenum	2.59	0.0050	2.5	0	104	65	111	0	0		
Nickel	2.5	0.0030	2.5	0	100	64	121	0	0		
Selenium	2.56	0.0050	2.5	0	102	62	109	0	0		
Silver	2.55	0.0030	2.5	0	102	71	137	0	0		
Thallium	2.53	0.0050	2.5	0	101	67	122	0	0		
Vanadium	2.61	0.0030	2.5	0.00103	104	69	118	0	0		
Zinc	2.48	0.010	2.5	0.00746	98.9	65	112	0	0		

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ANALYTICAL QC SUMMARY REPORT

BatchID: 9624

Sample ID: **057952-059AMSD** SampType: **MSD** TestCode: **6010_W** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718F**
Client ID: **ZZZZZ** Batch ID: **9624** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **301315**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	2.36	0.0050	2.5	0	94.4	69	116	2.57	8.52	20	
Arsenic	2.35	0.0050	2.5	0	94	67	114	2.55	8.16	20	
Barium	2.36	0.0030	2.5	0.00284	94.3	63	125	2.58	8.91	20	
Beryllium	2.38	0.0030	2.5	0	95.2	60	117	2.6	8.84	20	
Cadmium	2.26	0.0030	2.5	0	90.4	63	123	2.47	8.88	20	
Chromium	2.35	0.0030	2.5	0	94	68	118	2.58	9.33	20	
Cobalt	2.29	0.0030	2.5	0	91.6	68	118	2.5	8.77	20	
Copper	2.4	0.0030	2.5	0	96	72	123	2.63	9.15	20	
Lead	2.22	0.0050	2.5	0	88.8	66	118	2.43	9.03	20	
Molybdenum	2.37	0.0050	2.5	0	94.8	65	111	2.59	8.87	20	
Nickel	2.27	0.0030	2.5	0	90.8	64	121	2.5	9.64	20	
Selenium	2.36	0.0050	2.5	0	94.4	62	109	2.56	8.13	20	
Silver	2.33	0.0030	2.5	0	93.2	71	137	2.55	9.02	20	
Thallium	2.34	0.0050	2.5	0	93.6	67	122	2.53	7.80	20	
Vanadium	2.39	0.0030	2.5	0.00103	95.6	69	118	2.61	8.80	20	
Zinc	2.27	0.010	2.5	0.00746	90.5	65	112	2.48	8.84	20	

Sample ID: **MB-9624** SampType: **MBLK** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718D**
Client ID: **ZZZZZ** Batch ID: **9624** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **301266**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.0050									

Sample ID: **LCS-9624** SampType: **LCS** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718D**
Client ID: **ZZZZZ** Batch ID: **9624** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **301267**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.03	0.0050	1	0	103	80	120	0	0		

Qualifiers:
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BatchID: 9624

Sample ID: **057952-059AMS** SampType: **MS** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718D**
Client ID: **ZZZZZ** Batch ID: **9624** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **301275**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.43	0.0050	2.5	0	97.2	66	118	0	0		

Sample ID: **057952-059ADUP** SampType: **DUP** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/17/2002** Run ID: **ICP2_020718D**
Client ID: **ZZZZZ** Batch ID: **9624** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/18/2002** SeqNo: **301274**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.0050	0	0	0	0	0	0	0	30	

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9629

Sample ID: **MB-9629A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020722B**
Client ID: **ZZZZZ** Batch ID: **9629** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/22/2002** SeqNo: **302915**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **MB-9629B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020722B**
Client ID: **ZZZZZ** Batch ID: **9629** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/22/2002** SeqNo: **302916**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-9629** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020722B**
Client ID: **ZZZZZ** Batch ID: **9629** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/22/2002** SeqNo: **302914**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	209.7	5.0	250	0	83.9	80	120	0	0		

Sample ID: **057950-002AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020722B**
Client ID: **570-110-0** Batch ID: **9629** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/22/2002** SeqNo: **302899**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	356.8	5.0	250	161.7	78	47	128	0	0		

Sample ID: **057950-012AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020722B**
Client ID: **570-315-0.3** Batch ID: **9629** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/22/2002** SeqNo: **302911**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	148.6	5.0	250	9.291	55.7	47	128	0	0		

Qualifiers:
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BatchID: 9629

Sample ID: **057950-002ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020722B**
Client ID: **570-110-0** Batch ID: **9629** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/22/2002** SeqNo: **302898**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	159.2	5.0	0	0	0	0	0	161.7	1.59	30	

Sample ID: **057950-012ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020722B**
Client ID: **570-315-0.3** Batch ID: **9629** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/22/2002** SeqNo: **302910**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	12.21	5.0	0	0	0	0	0	9.291	27.2	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
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S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9630

Sample ID: **MB-9630A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719J**
Client ID: **ZZZZZ** Batch ID: **9630** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/19/2002** SeqNo: **302265**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **MB-9630B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719J**
Client ID: **ZZZZZ** Batch ID: **9630** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/19/2002** SeqNo: **302266**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-9630** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719J**
Client ID: **ZZZZZ** Batch ID: **9630** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/19/2002** SeqNo: **302264**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	223.3	5.0	250	0	89.3	80	120	0	0		

Sample ID: **057950-022AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719J**
Client ID: **570-313-0.3** Batch ID: **9630** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/19/2002** SeqNo: **302250**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	163	5.0	250	10.19	61.1	47	128	0	0		

Sample ID: **057950-032AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719J**
Client ID: **570-311-0.3** Batch ID: **9630** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/19/2002** SeqNo: **302262**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	166	5.0	250	27.46	55.4	47	128	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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DO - Surrogate diluted out
H - Sample exceeded holding time

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ANALYTICAL QC SUMMARY REPORT

BatchID: 9630

Sample ID: **057950-022ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719J**
Client ID: **570-313-0.3** Batch ID: **9630** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/19/2002** SeqNo: **302249**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	11.87	5.0	0	0	0	0	0	10.19	15.2	30	

Sample ID: **057950-032ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719J**
Client ID: **570-311-0.3** Batch ID: **9630** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/19/2002** SeqNo: **302261**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	14.31	5.0	0	0	0	0	0	27.46	63.0	30	R

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9631

Sample ID: **MB-9631A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719K**
Client ID: **ZZZZZ** Batch ID: **9631** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/19/2002** SeqNo: **302280**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **MB-9631B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719K**
Client ID: **ZZZZZ** Batch ID: **9631** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/20/2002** SeqNo: **302294**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-9631** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719K**
Client ID: **ZZZZZ** Batch ID: **9631** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/19/2002** SeqNo: **302279**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	212.8	5.0	250	0	85.1	80	120	0	0		

Sample ID: **057950-042AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719K**
Client ID: **570-308-1.5** Batch ID: **9631** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/19/2002** SeqNo: **302278**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	149.3	5.0	250	8.554	56.3	47	128	0	0		

Sample ID: **057950-052AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719K**
Client ID: **570-611-0** Batch ID: **9631** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/20/2002** SeqNo: **302292**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	372	5.0	250	195.5	70.6	47	128	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9631

Sample ID: **057950-042ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719K**
Client ID: **570-308-1.5** Batch ID: **9631** TestNo: **EPA 6010B (EPA 3050M)** Analysis Date: **7/19/2002** SeqNo: **302277**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.091	5.0	0	0	0	0	0	8.554	18.7	30	

Sample ID: **057950-052ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719K**
Client ID: **570-611-0** Batch ID: **9631** TestNo: **EPA 6010B (EPA 3050M)** Analysis Date: **7/20/2002** SeqNo: **302291**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	167.7	5.0	0	0	0	0	0	195.5	15.3	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9632

Sample ID: **MB-9632A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719L**
Client ID: **ZZZZZ** Batch ID: **9632** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/20/2002** SeqNo: **302321**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **MB-9632B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719L**
Client ID: **ZZZZZ** Batch ID: **9632** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/20/2002** SeqNo: **302322**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-9632** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719L**
Client ID: **ZZZZZ** Batch ID: **9632** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/20/2002** SeqNo: **302320**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	209.5	5.0	250	0	83.8	80	120	0	0		

Sample ID: **057951-003AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719L**
Client ID: **ZZZZZ** Batch ID: **9632** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/20/2002** SeqNo: **302306**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	224.1	5.0	250	19.86	81.7	47	128	0	0		

Sample ID: **057951-013AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719L**
Client ID: **ZZZZZ** Batch ID: **9632** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/20/2002** SeqNo: **302318**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	723.7	5.0	250	463.6	104	47	128	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9632

Sample ID: **057951-003ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719L**
Client ID: **ZZZZZ** Batch ID: **9632** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/20/2002** SeqNo: **302305**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	38.39	5.0	0	0	0	0	0	19.86	63.6	30	R

Sample ID: **057951-013ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/18/2002** Run ID: **ICP5_020719L**
Client ID: **ZZZZZ** Batch ID: **9632** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/20/2002** SeqNo: **302317**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	480.1	5.0	0	0	0	0	0	463.6	3.49	30	

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9793

Sample ID: **MB-9793** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020726G**
Client ID: **ZZZZZ** Batch ID: **9793** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307077**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9793A** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/23/2002** Run ID: **AA2_020726G**
Client ID: **ZZZZZ** Batch ID: **9793** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307078**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.09485	0.20									

Sample ID: **MB-9793B** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/23/2002** Run ID: **AA2_020726G**
Client ID: **ZZZZZ** Batch ID: **9793** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307089**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-9793** SampType: **LCS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020726G**
Client ID: **ZZZZZ** Batch ID: **9793** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307105**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.434	0.20	7.5	0	99.1	80	120	0	0		

Sample ID: **057949-022AMS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020726G**
Client ID: **ZZZZZ** Batch ID: **9793** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307088**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	82.09	1.6	40	40.73	103	80	120	0	0		

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9793

Sample ID: **057950-036AMS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020726G**
Client ID: **570-309-0** Batch ID: **9793** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307103**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.423	0.20	5	3.156	85.3	80	120	0	0		

Sample ID: **057949-022ADUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/23/2002** Run ID: **AA2_020726G**
Client ID: **ZZZZZ** Batch ID: **9793** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307087**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	49.38	1.6	0	0	0	0	0	40.73	19.2	30	

Sample ID: **057950-036ADUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/23/2002** Run ID: **AA2_020726G**
Client ID: **570-309-0** Batch ID: **9793** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307102**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.444	0.20	0	0	0	0	0	3.156	74.4	30	R

Qualifiers: ND - Not Detected at the Reporting Limit
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9795

Sample ID: **MB-9795** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020726H**
Client ID: **ZZZZZ** Batch ID: **9795** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307147**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9795A** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/23/2002** Run ID: **AA2_020726H**
Client ID: **ZZZZZ** Batch ID: **9795** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307148**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9795B** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/23/2002** Run ID: **AA2_020726H**
Client ID: **ZZZZZ** Batch ID: **9795** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307161**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-9795** SampType: **LCS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020726H**
Client ID: **ZZZZZ** Batch ID: **9795** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307175**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.62	0.20	7.5	0	102	80	120	0	0		

Sample ID: **057951-004AMS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020726H**
Client ID: **ZZZZZ** Batch ID: **9795** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307160**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.218	0.20	5	2.392	96.5	80	120	0	0		

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9795

Sample ID: **057951-021AMS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020726H**
Client ID: **ZZZZZ** Batch ID: **9795** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307173**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	75.1	2.0	50	27.75	94.7	80	120	0	0		

Sample ID: **057951-004ADUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/23/2002** Run ID: **AA2_020726H**
Client ID: **ZZZZZ** Batch ID: **9795** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307159**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.692	0.20	0	0	0	0	0	2.392	11.8	30	

Sample ID: **057951-021ADUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/23/2002** Run ID: **AA2_020726H**
Client ID: **ZZZZZ** Batch ID: **9795** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/26/2002** SeqNo: **307172**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	28.29	0.80	0	0	0	0	0	27.75	1.90	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Ninyo & Moore
Work Order: 057950
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 9955

Sample ID: **MB-9955** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802J**
Client ID: **ZZZZZ** Batch ID: **9955** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312424**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.08662	0.20									

Sample ID: **MB-9955A** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020802J**
Client ID: **ZZZZZ** Batch ID: **9955** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312425**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.09847	0.20									

Sample ID: **MB-9955B** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020802J**
Client ID: **ZZZZZ** Batch ID: **9955** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312438**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-9955** SampType: **LCS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802J**
Client ID: **ZZZZZ** Batch ID: **9955** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312452**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.203	0.20	7.5	0	96	80	120	0	0		

Sample ID: **057949-022AMS** SampType: **MS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802J**
Client ID: **ZZZZZ** Batch ID: **9955** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312437**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.286	0.20	5	0.1897	102	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Ninyo & Moore
Work Order: 057950
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 9955

Sample ID: **057950-038AMS** SampType: **MS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802J**
Client ID: **570-308-0** Batch ID: **9955** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312450**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.064	0.20	5	0	101	80	120	0	0		

Sample ID: **057949-022ADUP** SampType: **DUP** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020802J**
Client ID: **ZZZZZ** Batch ID: **9955** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312436**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.2015	0.20	0	0	0	0	0	0.1897	6.02	30	

Sample ID: **057950-038ADUP** SampType: **DUP** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020802J**
Client ID: **570-308-0** Batch ID: **9955** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312449**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20	0	0	0	0	0	0	0	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

Advanced Technology Laboratories
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CLIENT: Ninyo & Moore
Work Order: 057950
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 9956

Sample ID: **MB-9956** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802K**
Client ID: **ZZZZZ** Batch ID: **9956** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312453**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9956A** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020802K**
Client ID: **ZZZZZ** Batch ID: **9956** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312454**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9956B** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020802K**
Client ID: **ZZZZZ** Batch ID: **9956** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312467**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-9956** SampType: **LCS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802K**
Client ID: **ZZZZZ** Batch ID: **9956** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312481**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.494	0.20	7.5	0	99.9	80	120	0	0		

Sample ID: **057951-020AMS** SampType: **MS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802K**
Client ID: **ZZZZZ** Batch ID: **9956** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312466**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.316	0.20	5	0	106	80	120	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

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CLIENT: Ninyo & Moore
Work Order: 057950
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 9956

Sample ID: **057952-017AMS** SampType: **MS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802K**
Client ID: **ZZZZZ** Batch ID: **9956** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312479**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.271	0.20	5	0	105	80	120	0	0		

Sample ID: **057951-020ADUP** SampType: **DUP** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020802K**
Client ID: **ZZZZZ** Batch ID: **9956** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312465**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20	0	0	0	0	0	0	0	30	

Sample ID: **057952-017ADUP** SampType: **DUP** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020802K**
Client ID: **ZZZZZ** Batch ID: **9956** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312478**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20	0	0	0	0	0	0	0	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

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CLIENT: Ninyo & Moore
Work Order: 057950
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: R19606

Sample ID: **057950-044A-DUP** SampType: **DUP** TestCode: **9045_S** Units: **pH Units** Prep Date: **7/21/2002** Run ID: **WETCHEM_020721B**
Client ID: **570-307-0.3** Batch ID: **R19606** TestNo: **EPA 9045C** Analysis Date: **7/21/2002** SeqNo: **302547**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	8.102	0.10	0	0	0	0	0	8.005	1.20	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

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CLIENT: Ninyo & Moore
Work Order: 057950
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: R19607

Sample ID: **057952-056A-DUP** SampType: **DUP** TestCode: **9045_S** Units: **pH Units** Prep Date: **7/21/2002** Run ID: **WETCHEM_020721C**
Client ID: **ZZZZZ** Batch ID: **R19607** TestNo: **EPA 9045C** Analysis Date: **7/21/2002** SeqNo: **302560**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	6.623	0.10	0	0	0	0	0	6.665	0.632	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

Rachelle

From: Steve Reese [sreese@ninyoandmoore.com]
Sent: Wednesday, July 31, 2002 9:27 AM
To: 'rachelle@atlglobal.com'
Cc: David Shaler (E-mail); Ruth Cheung (E-mail)
Subject: TCLP Analysis

TCLP.xls

Rachelle,
Attached please find a list of samples to be run for the TCLP analysis. Currently, we selected all of the samples that are greater than 1,000 mg/kg
of TTLC results. However, they will be ran by instruction only. There may
be more samples chosen for TCLP analysis in the future, but please run these 82 samples for now. Please call with any questions.
Thank you, Steve

Stephen S. Reese
Senior Staff Environmental Scientist
Ninyo & Moore Geotechnical & Environmental Sciences Consultants
475 Goddard, Suite 200
Irvine, California 92618
Tel: (949) 753-7070
Fax: (949) 753-7071
Email: sreese@ninyoandmoore.com
www.ninyoandmoore.com

RUN FOR TCLP ANALYSIS			
33	20	29	82
569-101-0	570-101-0	571-104-0	
569-102-0	570-101-0.6	571-120-0	
569-102-0.3	570-102-0.6	571-310-0.9	
569-102-0.9	570-103-1.5	571-317-0	
569-111-0	570-114-0.6	571-320-0	
569-112-0	570-115-0	571-325-0.6	
569-112-0.6	570-119-0.3	571-507-0	
569-201-0	570-201-0	571-511-0	
569-212-0	570-214-0	571-514-0	
569-301-0	570-311-0.6	571-524-0	
569-303-0.9	570-312-0.6	571-710-0	
569-314-0	570-504-0	571-710-0.3	
569-401-0	570-508-0	571-711-0	
569-404-0.6	570-517-0	571-711-0.3	
569-405-0.6	570-517-0.3	571-712-0	
569-408-0.9	570-610-0.6	571-712-0.3	
569-502-0.6	570-615-0	571-201-0.6	
569-516-0	570-706-0	571-405-0	
569-603-0.3	570-709-0	571-406-0	
569-607-0	570-808-0.6	571-407-0	
569-607-0.3		571-414-0	
569-609-0		571-609-0	
569-609-0.3		571-611-0	
569-703-0		571-616-0	
569-703-0.9		571-617-0	
569-705-0		571-619-1.5	
569-705-0.3		571-814-0.3	
569-706-0		571-818-0.6	
569-708-0		571-819-0	
569-710-0			
569-711-0			
569-711-0.3			
569-801-0.3			

Rachelle

From: Ruth Cheung [rcheung@ninyoandmoore.com]
Sent: Tuesday, August 06, 2002 3:46 PM
To: 'Rachelle'; 'David Shaler (E-mail)'
Subject: Title 22 Metals

Title 22 Metals.xls

Rachelle,
Please run the following samples for Title 22 Metals. Please do not list
Pb in your emailed results. There should be a total of 120 samples to be
run.
Thanks.

Ruth L. Cheung
Staff Environmental Scientist
Ninyo & Moore
(949) 753-7070 x2273

569-102-0.9	570-101-0	571-101-0.9
569-112-0	570-101-0.6	571-104-0
569-201-0	570-201-0	571-201-0.6
569-206-0.6	570-205-0.9	571-108-1.5
569-106-1.5	570-106-0.3	571-111-0.3
569-212-0	570-208-1.5	571-207-0
569-401-0.6	570-111-0.6	571-210-0.6
569-301-0	570-214-0	571-115-0.9
569-303-0.9	570-115-0.3	571-214-0.3
569-404-0.6	570-119-0.9	571-120-0
569-408-0.9	570-224-0.6	571-217-1.5
569-314-0	570-401-0	571-220-0.6
569-313-0.3	570-401-0.3	571-301-0.3
569-502-0.6	570-304-1.5	571-405-0
569-602-1.5	570-307-0.9	571-306-0.9
569-607-0.3	570-311-0.6	571-407-0
569-607-0	570-312-0.6	571-310-0.9
569-508-0.9	570-316-0.3	571-315-0.3
569-511-0.6	570-601-0	571-412-1.5
569-612-1.5	570-505-1.5	571-317-0
569-516-0	570-508-0	571-320-0.6
569-801-0.3	570-610-0.6	571-416-0.9
569-519-0.6	570-511-0.9	571-325-0.3
569-803-0.9	570-615-0	571-421-1.5
569-705-0	570-514-0.3	571-425-0
569-806-1.5	570-517-0	571-501-0.6
569-708-0.3	570-618-0.6	571-503-0.9
569-711-0	570-621-1.5	571-603-0.3
569-811-0	570-703-0.9	571-507-0
	570-804-0	571-609-0
	570-706-0	571-510-1.5
	570-709-0	571-611-0
	570-808-0.6	571-514-0
	570-711-1.5	571-614-0.3
	570-812-0.3	571-517-0.9
		571-617-0.6
		571-520-1.5
		571-621-0.3
		571-524-0
		571-624-0.9
		571-529-0.3
		571-628-0.6
		571-703-1.5
		571-707-0
		571-804-0.9
		571-809-0.3
		571-711-0
		571-712-0
		571-814-0.3
		571-818-0.6
		571-819-0
		571-827-1.5

571-832-0.9
571-836-0.3
571-837-0.6
571-842-0

Rachelle

From: Ruth Cheung [rcheung@ninyoandmoore.com]
Sent: Thursday, August 08, 2002 9:14 AM
To: 'Rachelle'
Subject: TCLP Analysis

TCLP-3.xls

In addition to the 90 TCLP already run please run the following samples for
TCLP. There should be a list of 350 samples.
Thanks for a the hard work and timely results.

Ruth L. Cheung
Staff Environmental Scientist
Ninyo & Moore
(949) 753-7070 x2273

-----Original Message-----
From: Rachelle [SMTP:Rachelle@ATLGlobal.com]
Sent: Wednesday, August 07, 2002 5:02 PM
To: 'David Shaler (E-mail)'
Cc: 'Ruth Cheung (E-mail)'
Subject: TCLP Results

<<57931TCLP.xls>> <<58001TCLP.xls>> <<58021TCLP.xls>>
<<58022TCLP.xls>>
<<58023TCLP.xls>> <<58024TCLP.xls>> <<58049TCLP.xls>>
<<58050TCLP.xls>>
<<58052TCLP.xls>> <<58053TCLP.xls>> <<58065TCLP.xls>>
<<58066TCLP.xls>>
<<58067TCLP.xls>> <<58068TCLP.xls>> <<58069TCLP.xls>>

Rachelle Arada
Project Coordinator
www.atlglobal.com
voice: 562.989.4045 ext 237
fax : 562.989.4040

<< File: 57931TCLP.xls >> << File: 58001TCLP.xls >> << File: 58021TCLP.xls >> << File: 58022TCLP.xls >> << File: 58023TCLP.xls >> << File: 58024TCLP.xls >> << File: 58049TCLP.xls >> << File: 58050TCLP.xls >> << File: 58052TCLP.xls >> << File: 58053TCLP.xls >> << File: 58065TCLP.xls >> << File: 58066TCLP.xls >> << File: 58067TCLP.xls >> << File: 58068TCLP.xls >> << File: 58069TCLP.xls >>

569-404-0	2. STLC	170
569-402-0	2. STLC	130
569-406-0	2. STLC	120
569-515-0	2. STLC	110
569-611-0	2. STLC	100
569-409-0	2. STLC	94
569-603-0	2. STLC	93
569-104-0.6	2. STLC	91
569-807-0	2. STLC	86
569-608-0	2. STLC	86
569-501-0	2. STLC	84
569-710-0.3	2. STLC	83
569-808-0	2. STLC	83
569-609-0.6	2. STLC	80
569-803-0	2. STLC	79
569-105-0	2. STLC	78
569-512-0	2. STLC	77
569-513-0	2. STLC	77
569-302-0	2. STLC	74
569-805-0	2. STLC	73
569-517-0	2. STLC	71
569-704-0.3	2. STLC	71
569-703-0.6	2. STLC	70
569-514-0.3	2. STLC	70
569-803-0.3	2. STLC	69
569-409-0.6	2. STLC	69
569-411-0	2. STLC	68
569-102-0.6	2. STLC	68
569-809-0	2. STLC	65
569-605-0	2. STLC	65
569-711-0.6	2. STLC	62
569-806-0	2. STLC	60
569-802-0.3	2. STLC	60
569-410-0	2. STLC	59
569-501-0.6	2. STLC	59
569-808-0.3	2. STLC	58
569-104-0	2. STLC	56
569-804-0	2. STLC	54
569-610-0	2. STLC	54
569-608-0.3	2. STLC	53
569-213-0	2. STLC	49
569-701-0	2. STLC	47
569-311-0	2. STLC	47
569-609-0.9	2. STLC	46
569-513-0.3	2. STLC	45
569-801-0.6	2. STLC	44
569-514-0	2. STLC	42
569-805-0.6	2. STLC	42
569-408-1.5	2. STLC	42
569-807-0.3	2. STLC	40
569-204-0	2. STLC	40
569-517-0.3	2. STLC	36
569-518-0	2. STLC	36
569-806-0.3	2. STLC	36
569-705-1.5	2. STLC	35
569-303-0.6	2. STLC	34
569-516-0.3	2. STLC	33
569-705-0.6	2. STLC	33
569-802-0	2. STLC	33
569-515-0.6	2. STLC	32
569-704-0	2. STLC	32
569-401-0.3	2. STLC	32
569-207-0	2. STLC	32
569-608-0.6	2. STLC	31
569-104-0.3	2. STLC	31
569-201-0.6	2. STLC	30
569-515-0.3	2. STLC	28
569-212-0.6	2. STLC	28
569-103-0	2. STLC	28
569-313-0	2. STLC	27
569-103-0.3	2. STLC	26
569-705-0.9	2. STLC	25
569-707-0.3	2. STLC	25
569-515-1.5	2. STLC	24
569-508-0	2. STLC	24
569-801-0	2. STLC	24
569-402-0.6	2. STLC	24
569-516-0.6	2. STLC	22
569-509-0.3	2. STLC	22
569-106-0	2. STLC	22
569-106-0.3	2. STLC	22
569-202-0	2. STLC	21
569-805-1.5	2. STLC	21
569-205-0	2. STLC	20
569-707-0	2. STLC	19

570-515-0.3	2. STLC	120
570-811-0	2. STLC	110
570-114-0.0	2. STLC	110
570-504-0.6	2. STLC	100
570-811-1.5	2. STLC	90
570-615-0.6	2. STLC	84
570-305-0	2. STLC	79
570-314-0.6	2. STLC	76
570-505-0.6	2. STLC	75
570-208-0.6	2. STLC	74
570-116-0.0	2. STLC	73
570-102-0	2. STLC	65
570-804-0.6	2. STLC	64
570-704-0	2. STLC	63
570-508-0.6	2. STLC	60
570-706-0.3	2. STLC	60
570-303-0	2. STLC	58
570-311-1.5	2. STLC	58
570-117-0.0	2. STLC	58
570-208-0.3	2. STLC	58
570-709-0.6	2. STLC	57
570-703-0	2. STLC	55
570-206-0	2. STLC	54
570-301-0	2. STLC	53
570-603-0.3	2. STLC	46
570-711-0.6	2. STLC	46
570-206-0.3	2. STLC	45
570-103-0	2. STLC	44
570-602-0	2. STLC	41
570-209-0	2. STLC	40
570-210-0	2. STLC	40
570-117-0.3	2. STLC	39
570-103-0.6	2. STLC	37
570-110-0.6	2. STLC	37
570-805-0.9	2. STLC	36
570-112-1.5	2. STLC	35
570-614-0	2. STLC	34
570-713-0.3	2. STLC	33
570-513-0	2. STLC	32
570-312-0.3	2. STLC	31
570-503-0.6	2. STLC	31
570-510-0.6	2. STLC	31
570-202-0	2. STLC	31
570-207-0	2. STLC	31
570-209-0.3	2. STLC	31
570-703-0.3	2. STLC	30
570-401-0	2. STLC	30
570-610-0.9	2. STLC	29
570-809-0.6	2. STLC	29
570-509-0.9	2. STLC	29
570-210-0.6	2. STLC	29
570-211-0	2. STLC	29
570-603-0	2. STLC	28
570-119-0	2. STLC	28
570-713-0.6	2. STLC	28
570-108-0	2. STLC	27
570-708-0.6	2. STLC	27
570-224-0	2. STLC	26
570-601-0	2. STLC	26
570-710-0.6	2. STLC	26
570-614-0.6	2. STLC	26
570-118-0.3	2. STLC	26
570-304-0	2. STLC	25
570-707-0.6	2. STLC	25
570-510-0	2. STLC	25
570-110-0	2. STLC	24
570-223-0	2. STLC	24
570-117-0.6	2. STLC	24
570-616-0	2. STLC	23
570-704-0.3	2. STLC	22
570-513-0.6	2. STLC	22
570-221-0.0	2. STLC	22
570-617-0	2. STLC	21
570-214-0.3	2. STLC	21
570-122-0.9	2. STLC	20
570-313-0.6	2. STLC	19
570-207-0.6	2. STLC	19
570-120-0.9	2. STLC	18
570-506-0	2. STLC	18
570-102-0.9	2. STLC	17
570-216-0	2. STLC	17
570-225-0	2. STLC	17
570-304-0.3	2. STLC	17
570-409-0	2. STLC	17
570-713-0	2. STLC	17

571-521-0	2. STLC	230
571-324-0.9	2. STLC	110
571-818-0	2. STLC	110
571-819-0.6	2. STLC	110
571-708-0	2. STLC	110
571-103-0.6	2. STLC	110
571-617-0.3	2. STLC	100
571-611-0.6	2. STLC	92
571-712-0.9	2. STLC	81
571-105-0.6	2. STLC	81
571-313-0	2. STLC	79
571-508-0	2. STLC	73
571-518-0.3	2. STLC	73
571-217-0	2. STLC	68
571-516-0	2. STLC	66
571-701-0.3	2. STLC	66
571-710-0.6	2. STLC	65
571-512-0	2. STLC	64
571-308-0.9	2. STLC	61
571-701-0	2. STLC	61
571-514-0.3	2. STLC	59
571-415-0	2. STLC	58
571-616-0.6	2. STLC	57
571-517-0	2. STLC	56
571-112-0.9	2. STLC	56
571-214-0	2. STLC	55
571-415-0.3	2. STLC	55
571-405-0.6	2. STLC	55
571-530-0	2. STLC	55
571-831-0	2. STLC	53
571-709-0	2. STLC	53
571-103-0.0	2. STLC	52
571-312-0	2. STLC	51
571-526-0	2. STLC	51
571-819-1.5	2. STLC	51
571-515-0	2. STLC	50
571-833-0	2. STLC	49
571-815-0.6	2. STLC	47
571-517-0.3	2. STLC	46
571-610-0	2. STLC	46
571-413-0	2. STLC	46
571-815-0	2. STLC	45
571-514-0.9	2. STLC	44
571-505-1.5	2. STLC	44
571-528-0	2. STLC	44
571-610-0.6	2. STLC	43
571-629-0	2. STLC	43
571-604-0	2. STLC	42
571-213-0	2. STLC	41
571-812-0	2. STLC	41
571-706-0	2. STLC	41
571-530-0.6	2. STLC	41
571-305-0	2. STLC	40
571-523-0.3	2. STLC	39
571-510-0	2. STLC	39
571-305-0.9	2. STLC	39
571-818-1.5	2. STLC	39
571-703-0	2. STLC	38
571-520-0.3	2. STLC	36
571-216-0	2. STLC	34
571-827-0	2. STLC	34
571-708-0.3	2. STLC	34
571-514-0.6	2. STLC	33
571-528-1.5	2. STLC	33
571-803-0	2. STLC	33
571-414-0.3	2. STLC	33
571-813-0.3	2. STLC	32
571-523-0	2. STLC	31
571-326-0	2. STLC	31
571-502-0.6	2. STLC	31
571-624-1.5	2. STLC	31
571-330-0	2. STLC	31
571-512-0.3	2. STLC	30
571-521-0.6	2. STLC	29
571-706-0.3	2. STLC	29
571-814-0.6	2. STLC	28
571-616-1.5	2. STLC	28
571-835-0	2. STLC	28
571-811-0.3	2. STLC	28
571-101-0.6	2. STLC	28
571-112-0	2. STLC	28
571-315-0	2. STLC	27
571-622-0	2. STLC	27
571-607-0.6	2. STLC	27
571-609-0.6	2. STLC	27

569-709-0	2. STLC	19
569-202-0.3	2. STLC	19
569-602-0	2. STLC	19
569-207-0.3	2. STLC	19
569-706-0.3	2. STLC	17
569-807-0.9	2. STLC	17
569-104-0.9	2. STLC	17
569-505-0.6	2. STLC	17
569-704-0.6	2. STLC	16
569-808-0.6	2. STLC	16
569-212-0.3	2. STLC	16
569-612-0	2. STLC	16
569-704-1.5	2. STLC	15
569-411-0.3	2. STLC	15
569-113-0	2. STLC	15
569-807-0.6	2. STLC	14
569-311-0.3	2. STLC	12
569-312-0	2. STLC	10
569-311-0.9	2. STLC	8.3

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570-401-0.3	2. STLC	17
570-616-0.6	2. STLC	17
570-308-0	2. STLC	16
570-807-0.9	2. STLC	16
570-701-0.6	2. STLC	16
570-617-0.3	2. STLC	16
570-107-0.6	2. STLC	15
570-811-0.6	2. STLC	15
570-707-0	2. STLC	15
570-518-0	2. STLC	15
570-111-0.0	2. STLC	15
570-109-0.6	2. STLC	14
570-401-0.9	2. STLC	4.1
570-408-0	2. STLC	4
570-409-0.3	2. STLC	3
570-401-0.6		0
570-401-1.5		0
570-408-0.6		0
570-408-1.5		0

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571-837-0.3	2. STLC	27
571-520-0	2. STLC	26
571-516-0.3	2. STLC	26
571-420-0	2. STLC	26
571-102-0.6	2. STLC	26
571-517-1.5	2. STLC	25
571-513-0.6	2. STLC	25
571-623-0.6	2. STLC	25
571-112-0.3	2. STLC	25
571-326-0.6	2. STLC	24
571-619-0.3	2. STLC	24
571-619-0.9	2. STLC	24
571-528-0.3	2. STLC	24
571-706-0.6	2. STLC	24
571-112-0.6	2. STLC	24
571-327-0.6	2. STLC	23
571-817-0	2. STLC	23
571-425-0.6	2. STLC	22
571-118-0	2. STLC	22
571-829-0	2. STLC	22
571-828-0	2. STLC	22
571-122-0	2. STLC	21
571-101-1.5	2. STLC	21
571-530-0.3	2. STLC	21
571-406-0.6	2. STLC	20
571-517-0.6	2. STLC	20
571-835-0.3	2. STLC	20
571-501-0	2. STLC	20
571-518-0.9	2. STLC	19
571-510-0.3	2. STLC	19
571-814-0.9	2. STLC	19
571-522-0.6	2. STLC	19
571-622-1.5	2. STLC	19
571-812-0.6	2. STLC	19
571-701-0.6	2. STLC	19
571-704-0	2. STLC	19
571-711-0.6	2. STLC	19
571-212-0	2. STLC	18
571-839-0.6	2. STLC	18
571-610-1.5	2. STLC	18
571-709-0.3	2. STLC	18
571-311-0.6	2. STLC	17
571-620-0	2. STLC	17
571-109-0	2. STLC	17
571-704-0.3	2. STLC	17
571-207-1.5	2. STLC	16
571-203-0	2. STLC	16
571-616-0.3	2. STLC	16
571-317-0.3	2. STLC	16
571-629-0.3	2. STLC	16
571-416-0	2. STLC	15
571-419-0	2. STLC	15
571-526-0.3	2. STLC	15
571-619-0	2. STLC	15
571-606-0	2. STLC	15
571-115-0.6	2. STLC	14
571-202-0.9	2. STLC	11

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tblTEMP

WorkOrder	ClientSampID	TestNo	Analyte	PQL	DF	CollectionDate	AnalDate	PrepDate
057950	570-110-0	EPA 1311/ 7420	Lead	0.2	1	7/16/2002	8/14/2002	8/13/2002
057950	570-110-0	EPA 6010B	Lead	5	1	7/16/2002	7/22/2002	7/18/2002
057950	570-110-0	EPA 9045C	pH	0.1	1	7/16/2002	7/21/2002	7/21/2002
057950	570-110-0	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057950	570-110-0	WET/ EPA 7420	Lead	0.8	4	7/16/2002	7/26/2002	7/23/2002
057950	570-110-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/22/2002	7/18/2002
057950	570-110-0.3	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057950	570-110-0.3	WET/ EPA 7420	Lead	0.2	1	7/16/2002	7/26/2002	7/23/2002
057950	570-110-0.6	EPA 1311/ 7420	Lead	0.4	2	7/16/2002	8/16/2002	8/15/2002
057950	570-110-0.6	EPA 6010B	Lead	5	1	7/16/2002	7/22/2002	7/18/2002
057950	570-110-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057950	570-110-0.6	WET/ EPA 7420	Lead	0.8	4	7/16/2002	7/26/2002	7/23/2002
057950	570-110-0.9	EPA 6010B	Lead	5	1	7/16/2002	7/22/2002	7/18/2002
057950	570-307-0	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057950	570-307-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057950	570-307-0.3	EPA 9045C	pH	0.1	1	7/16/2002	7/21/2002	7/21/2002
057950	570-307-0.3	WET/ EPA 7420	Lead	0.2	1	7/16/2002	7/26/2002	7/23/2002
057950	570-307-0.6	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057950	570-307-0.9	EPA 6010B	Antimony	2.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-307-0.9	EPA 6010B	Arsenic	2.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-307-0.9	EPA 6010B	Barium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-307-0.9	EPA 6010B	Beryllium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-307-0.9	EPA 6010B	Cadmium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-307-0.9	EPA 6010B	Chromium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-307-0.9	EPA 6010B	Cobalt	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-307-0.9	EPA 6010B	Copper	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-307-0.9	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057950	570-307-0.9	EPA 6010B	Molybdenum	2.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-307-0.9	EPA 6010B	Nickel	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-307-0.9	EPA 6010B	Selenium	2.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-307-0.9	EPA 6010B	Silver	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-307-0.9	EPA 6010B	Thallium	2.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-307-0.9	EPA 6010B	Vanadium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-307-0.9	EPA 6010B	Zinc	5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-307-0.9	EPA 7471A	Mercury	0.1	1	7/16/2002	8/9/2002	8/7/2002

057950	570-307-1.5	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057950	570-308-0	EPA 1311/ 7420	Lead	0.2	1	7/16/2002	8/14/2002	8/13/2002
057950	570-308-0	EPA 6010B	Lead	5	1	7/16/2002	7/19/2002	7/18/2002
057950	570-308-0	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057950	570-308-0	WET/ EPA 7420	Lead	0.4	2	7/16/2002	7/26/2002	7/23/2002
057950	570-308-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/19/2002	7/18/2002
057950	570-308-0.6	EPA 6010B	Lead	5	1	7/16/2002	7/19/2002	7/18/2002
057950	570-308-0.9	EPA 6010B	Lead	5	1	7/16/2002	7/19/2002	7/18/2002
057950	570-308-1.5	EPA 6010B	Lead	5	1	7/16/2002	7/19/2002	7/18/2002
057950	570-309-0	EPA 6010B	Lead	5	1	7/16/2002	7/19/2002	7/18/2002
057950	570-309-0	WET/ EPA 7420	Lead	0.2	1	7/16/2002	7/26/2002	7/23/2002
057950	570-309-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/19/2002	7/18/2002
057950	570-309-0.3	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057950	570-309-0.3	WET/ EPA 7420	Lead	0.2	1	7/16/2002	7/26/2002	7/23/2002
057950	570-311-0	EPA 6010B	Lead	5	1	7/16/2002	7/19/2002	7/18/2002
057950	570-311-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/19/2002	7/18/2002
057950	570-311-0.6	EPA 1311/ 7420	Lead	0.2	1	7/16/2002	8/6/2002	8/5/2002
057950	570-311-0.6	EPA 6010B	Antimony	2.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-311-0.6	EPA 6010B	Arsenic	2.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-311-0.6	EPA 6010B	Barium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-311-0.6	EPA 6010B	Beryllium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-311-0.6	EPA 6010B	Cadmium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-311-0.6	EPA 6010B	Chromium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-311-0.6	EPA 6010B	Cobalt	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-311-0.6	EPA 6010B	Copper	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-311-0.6	EPA 6010B	Lead	5	1	7/16/2002	7/19/2002	7/18/2002
057950	570-311-0.6	EPA 6010B	Molybdenum	2.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-311-0.6	EPA 6010B	Nickel	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-311-0.6	EPA 6010B	Selenium	2.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-311-0.6	EPA 6010B	Silver	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-311-0.6	EPA 6010B	Thallium	2.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-311-0.6	EPA 6010B	Vanadium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-311-0.6	EPA 6010B	Zinc	5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-311-0.6	EPA 7471A	Mercury	0.1	1	7/16/2002	8/9/2002	8/7/2002
057950	570-311-0.6	EPA 9045C	pH	0.1	1	7/16/2002	7/21/2002	7/21/2002
057950	570-311-0.9	EPA 6010B	Lead	5	1	7/16/2002	7/19/2002	7/18/2002

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057950	570-311-1.5	EPA 1311/ 7420	Lead	0.2	1	7/16/2002	8/14/2002	8/13/2002
057950	570-311-1.5	EPA 6010B	Lead	5	1	7/16/2002	7/19/2002	7/18/2002
057950	570-311-1.5	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057950	570-311-1.5	WET/ EPA 7420	Lead	2	10	7/16/2002	7/26/2002	7/23/2002
057950	570-312-0	EPA 6010B	Lead	5	1	7/16/2002	7/19/2002	7/18/2002
057950	570-312-0.3	EPA 1311/ 7420	Lead	0.2	1	7/16/2002	8/14/2002	8/13/2002
057950	570-312-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/19/2002	7/18/2002
057950	570-312-0.3	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057950	570-312-0.3	WET/ EPA 7420	Lead	0.8	4	7/16/2002	7/26/2002	7/23/2002
057950	570-312-0.6	EPA 1311/ 7420	Lead	0.2	1	7/16/2002	8/6/2002	8/5/2002
057950	570-312-0.6	EPA 6010B	Antimony	2.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-312-0.6	EPA 6010B	Arsenic	2.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-312-0.6	EPA 6010B	Barium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-312-0.6	EPA 6010B	Beryllium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-312-0.6	EPA 6010B	Cadmium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-312-0.6	EPA 6010B	Chromium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-312-0.6	EPA 6010B	Cobalt	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-312-0.6	EPA 6010B	Copper	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-312-0.6	EPA 6010B	Lead	5	1	7/16/2002	7/19/2002	7/18/2002
057950	570-312-0.6	EPA 6010B	Molybdenum	2.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-312-0.6	EPA 6010B	Nickel	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-312-0.6	EPA 6010B	Selenium	2.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-312-0.6	EPA 6010B	Silver	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-312-0.6	EPA 6010B	Thallium	2.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-312-0.6	EPA 6010B	Vanadium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-312-0.6	EPA 6010B	Zinc	5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-312-0.6	EPA 7471A	Mercury	0.1	1	7/16/2002	8/9/2002	8/7/2002
057950	570-312-0.9	EPA 6010B	Lead	5	1	7/16/2002	7/19/2002	7/18/2002
057950	570-312-1.5	EPA 6010B	Lead	5	1	7/16/2002	7/19/2002	7/18/2002
057950	570-313-0	EPA 6010B	Lead	5	1	7/16/2002	7/19/2002	7/18/2002
057950	570-313-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/19/2002	7/18/2002
057950	570-313-0.3	EPA 9045C	pH	0.1	1	7/16/2002	7/21/2002	7/21/2002
057950	570-313-0.6	EPA 1311/ 7420	Lead	0.2	1	7/16/2002	8/14/2002	8/13/2002
057950	570-313-0.6	EPA 6010B	Lead	5	1	7/16/2002	7/19/2002	7/18/2002
057950	570-313-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057950	570-313-0.6	WET/ EPA 7420	Lead	0.4	2	7/16/2002	7/26/2002	7/23/2002

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057950	570-313-0.9	EPA 6010B	Lead	5	1	7/16/2002	7/19/2002	7/18/2002
057950	570-313-1.5	EPA 6010B	Lead	5	1	7/16/2002	7/19/2002	7/18/2002
057950	570-314-0	EPA 6010B	Lead	5	1	7/16/2002	7/19/2002	7/18/2002
057950	570-314-0	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057950	570-314-0	WET/ EPA 7420	Lead	0.2	1	7/16/2002	7/26/2002	7/23/2002
057950	570-314-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/19/2002	7/18/2002
057950	570-314-0.6	EPA 1311/ 7420	Lead	0.2	1	7/16/2002	8/16/2002	8/15/2002
057950	570-314-0.6	EPA 6010B	Lead	5	1	7/16/2002	7/19/2002	7/18/2002
057950	570-314-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057950	570-314-0.6	WET/ EPA 7420	Lead	2	10	7/16/2002	7/26/2002	7/23/2002
057950	570-314-0.9	EPA 6010B	Lead	5	1	7/16/2002	7/19/2002	7/18/2002
057950	570-314-1.5	EPA 6010B	Lead	5	1	7/16/2002	7/19/2002	7/18/2002
057950	570-315-0	EPA 6010B	Lead	5	1	7/16/2002	7/22/2002	7/18/2002
057950	570-315-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/22/2002	7/18/2002
057950	570-315-0.3	EPA 9045C	pH	0.1	1	7/16/2002	7/21/2002	7/21/2002
057950	570-315-0.6	EPA 6010B	Lead	5	1	7/16/2002	7/19/2002	7/18/2002
057950	570-315-0.6	WET/ EPA 7420	Lead	0.2	1	7/16/2002	7/26/2002	7/23/2002
057950	570-315-0.9	EPA 6010B	Lead	5	1	7/16/2002	7/19/2002	7/18/2002
057950	570-315-1.5	EPA 6010B	Lead	5	1	7/16/2002	7/19/2002	7/18/2002
057950	570-316-0	EPA 6010B	Lead	5	1	7/16/2002	7/22/2002	7/18/2002
057950	570-316-0.3	EPA 6010B	Antimony	2.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-316-0.3	EPA 6010B	Arsenic	2.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-316-0.3	EPA 6010B	Barium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-316-0.3	EPA 6010B	Beryllium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-316-0.3	EPA 6010B	Cadmium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-316-0.3	EPA 6010B	Chromium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-316-0.3	EPA 6010B	Cobalt	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-316-0.3	EPA 6010B	Copper	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-316-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/22/2002	7/18/2002
057950	570-316-0.3	EPA 6010B	Molybdenum	2.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-316-0.3	EPA 6010B	Nickel	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-316-0.3	EPA 6010B	Selenium	2.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-316-0.3	EPA 6010B	Silver	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-316-0.3	EPA 6010B	Thallium	2.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-316-0.3	EPA 6010B	Vanadium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-316-0.3	EPA 6010B	Zinc	5	10	7/16/2002	8/10/2002	8/8/2002

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057950	570-316-0.3	EPA 7471A	Mercury	0.1	1	7/16/2002	8/9/2002	8/7/2002
057950	570-316-0.6	EPA 6010B	Lead	5	1	7/16/2002	7/22/2002	7/18/2002
057950	570-316-0.9	EPA 6010B	Lead	5	1	7/16/2002	7/22/2002	7/18/2002
057950	570-316-1.5	EPA 6010B	Lead	5	1	7/16/2002	7/22/2002	7/18/2002
057950	570-610-0	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057950	570-610-0	WET/ EPA 7420	Lead	0.2	1	7/16/2002	7/26/2002	7/23/2002
057950	570-610-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057950	570-610-0.6	EPA 1311/ 7420	Lead	0.4	2	7/16/2002	8/6/2002	8/5/2002
057950	570-610-0.6	EPA 6010B	Antimony	2.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-610-0.6	EPA 6010B	Arsenic	2.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-610-0.6	EPA 6010B	Barium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-610-0.6	EPA 6010B	Beryllium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-610-0.6	EPA 6010B	Cadmium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-610-0.6	EPA 6010B	Chromium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-610-0.6	EPA 6010B	Cobalt	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-610-0.6	EPA 6010B	Copper	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-610-0.6	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057950	570-610-0.6	EPA 6010B	Molybdenum	2.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-610-0.6	EPA 6010B	Nickel	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-610-0.6	EPA 6010B	Selenium	2.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-610-0.6	EPA 6010B	Silver	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-610-0.6	EPA 6010B	Thallium	2.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-610-0.6	EPA 6010B	Vanadium	1.5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-610-0.6	EPA 6010B	Zinc	5	10	7/16/2002	8/10/2002	8/8/2002
057950	570-610-0.6	EPA 7471A	Mercury	0.1	1	7/16/2002	8/9/2002	8/7/2002
057950	570-610-0.9	EPA 1311/ 7420	Lead	0.2	1	7/16/2002	8/14/2002	8/13/2002
057950	570-610-0.9	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057950	570-610-0.9	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057950	570-610-0.9	WET/ EPA 7420	Lead	0.8	4	7/16/2002	7/26/2002	7/23/2002
057950	570-611-0	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057950	570-611-0	WET DI/ EPA 7420	Lead	0.2	1	7/16/2002	8/2/2002	7/30/2002
057950	570-611-0	WET/ EPA 7420	Lead	0.4	2	7/16/2002	7/26/2002	7/23/2002
057950	570-611-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057950	570-612-0	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057950	570-612-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057950	570-612-0.3	EPA 9045C	pH	0.1	1	7/16/2002	7/21/2002	7/21/2002

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057950	570-612-0.6	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057950	570-612-0.6	WET/ EPA 7420	Lead	0.2	1	7/16/2002	7/26/2002	7/23/2002
057950	570-612-09	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057950	570-612-1.5	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057950	570-613-0	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057950	570-613-0	WET/ EPA 7420	Lead	0.2	1	7/16/2002	7/26/2002	7/23/2002
057950	570-613-0.3	EPA 6010B	Lead	5	1	7/16/2002	7/20/2002	7/18/2002
057950	EB-7	EPA 6010B	Lead	0.005	1	7/16/2002	7/18/2002	7/17/2002

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August 15, 2002

David Shaler
Ninyo & Moore
475 Goddard Suite 200
Irvine, CA 92618
TEL: (949) 753-7070
FAX: (949) 753-7071

ELAP No.: 1838
NELAP No.: 02107CA
Workorder No.: 057975

RE: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

Attention: David Shaler

Enclosed are the results for sample(s) received on July 17, 2002 by Advanced Technology Laboratories and tested for the parameters indicated in the enclosed chain of custody.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

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AUG 2 6 2002
NINYO & MOORE
ORANGE COUNTY OFFICE

This cover letter is an integral part of this analytical report.

Laboratory	Site	Consultant
Advanced Technology Laboratories	Caltrans/I-10 (605-57)/Lead Survey	Ninyo & Moore - David Shaler/Steve Reese
3275 Walnut Avenue, Signal Hill, CA 90807	TO 07-117070-PX	475 Goddard, Suite 200, Irvine, CA 92618
Tel. (562) 989-4045 Fax (562) 989-6348	Project # 203939001	Tel. (949) 753-7070 Fax (949) 753-7071

Special Instructions
See Project specifications. 5 Day TAT.

Relinquished by: (name/date/time) 7-17-02 | Received by: (name/date/time) 7/17/02

Relinquished by: (name/date/time) 7/17/02 1725 | Received by: (name/date/time) 7/17/02 17:25

Lab No	Sample I.D	Date	Time	Sample container P=plastic B=brass	Analyses: Total Lead EPA Method 6010	Analyses: pH EPA Method 9045
	EB- 14	7/17/02	15:51	P	X	
	570- 518-0		8:55	B	X	X
	570- 518-0.3		8:56		X	
	570- 518-0.6		8:58		X	
	570- 518-0.9		8:59		X	
	570- 518-1.5		9:04		X	
	570- 517-0		9:09		X	
	570- 517-0.3		9:11		X	
	570- 517-0.6		9:13		X	
	570- 517-0.9		19:15		X	
	570- 517-1.5		9:16		X	
	570- 516-0		9:20		X	X
	570- 516-0.3		9:22		X	
	570- 516-0.6		9:24		X	
	570- 516-0.9		9:25		X	
	570- 516-1.5		9:27		X	
	570- 515-0		9:33		X	
	570- 515-0.3		9:35		X	
	570- 515-0.6		9:37		X	
	570- 515-0.9		9:39		X	
	570- 515-1.5		9:41		X	X
	570- 514-0		9:45		X	
	570- 514-0.3		9:48		X	
	570- 514-0.6		9:50		X	
	570- 514-0.9		9:52		X	
	570- 514-1.5		9:54		X	
	570- 513-0		9:57		X	
	570- 513-0.3		9:59		X	
	570- 513-0.6		10:01		X	
	570- 513-0.9		10:02		X	
	570- 513-1.5		10:03		X	X
	570- 512-0		10:10		X	
	570- 512-0.3		10:12		X	
	570- 512-0.6		10:14		X	
	570- 512-0.9		10:15		X	
	570- 512-1.5		10:17		X	
	570- 511-0		10:20		X	
	570- 511-0.3		10:22		X	
	570- 511-0.6		10:24		X	
	570- 511-0.9		10:25		X	
	570- 511-1.5		10:28		X	X
	570- 510-0		10:40		X	
	570- 510-0.3		10:41		X	
	570- 510-0.6		10:43		X	
	570- 510-0.9		10:45		X	
	570- 510-1.5		10:48		X	
	570- 507-0		10:55		X	
	570- 507-0.3		10:57		X	
	570- 507-0.6		10:59		X	
	570- 507-0.9		11:01		X	
	570- 507-1.5		11:04		X	X
	570- 803-0		11:44		X	
	570- 803-0.3		11:45		X	
	570- 803-0.6		11:46		X	
	570- 803-0.9		11:49		X	
	570- 803-1.5		11:52		X	
	570- 804-0		12:00		X	
	570- 804-0.3		12:01		X	
	570- 804-0.6		12:02		X	
	570- 804-0.9		12:04		X	

Total # of samples: 60

Advanced Technology Laboratories

Date: *24-Jul-02*

CLIENT: Ninyo & Moore
Lab Order: 057975
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Lab ID: 057975-001A

Client Sample ID: EB-14
Collection Date: 7/17/2002 3:51:00 PM
Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
LEAD BY ICP	**(EPA 3010A)**			**EPA 6010B**		
RunID: ICP2_020723B	QC Batch: 9745					Analyst: **RQ**
Lead	ND	0.0050		mg/L	1	7/23/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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Date: 7/24/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057975
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/17/2002 5:25:0
Project No:		**Matrix:**	SOIL
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057975-002A	570-518-0.0	240	mg/Kg	9641	5	1	7/17/2002	7/23/2002
057975-003A	570-518-0.3	6.5	mg/Kg	9641	5	1	7/17/2002	7/23/2002
057975-004A	570-518-0.6	24	mg/Kg	9641	5	1	7/17/2002	7/23/2002
057975-005A	570-518-0.9	12	mg/Kg	9641	5	1	7/17/2002	7/23/2002
057975-006A	570-518-1.5	19	mg/Kg	9641	5	1	7/17/2002	7/23/2002
057975-007A	570-517-0	3200	mg/Kg	9641	5	1	7/17/2002	7/23/2002
057975-008A	570-517-0.3	1500	mg/Kg	9641	5	1	7/17/2002	7/23/2002
057975-009A	570-517-0.6	270	mg/Kg	9641	5	1	7/17/2002	7/23/2002
057975-010A	570-517-0.9	13	mg/Kg	9641	5	1	7/17/2002	7/23/2002
057975-011A	570-517-1.5	11	mg/Kg	9641	5	1	7/17/2002	7/23/2002
057975-012A	570-516-0	33	mg/Kg	9642	5	1	7/17/2002	7/23/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: 7/24/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057975
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/17/2002 5:25:0
Project No:		**Matrix:**	SOIL
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057975-013A	570-516-0.3	30	mg/Kg	9642	5	1	7/17/2002	7/23/2002
057975-014A	570-516-0.6	68	mg/Kg	9642	5	1	7/17/2002	7/23/2002
057975-015A	570-516-0.9	9.3	mg/Kg	9642	5	1	7/17/2002	7/23/2002
057975-016A	570-516-1.5	33	mg/Kg	9642	5	1	7/17/2002	7/23/2002
057975-017A	570-515-0	140	mg/Kg	9642	5	1	7/17/2002	7/23/2002
057975-018A	570-515-0.3	61	mg/Kg	9642	5	1	7/17/2002	7/23/2002
057975-019A	570-515-0.6	39	mg/Kg	9642	5	1	7/17/2002	7/23/2002
057975-020A	570-515-0.9	8.4	mg/Kg	9642	5	1	7/17/2002	7/23/2002
057975-021A	570-515-1.5	7.1	mg/Kg	9642	5	1	7/17/2002	7/23/2002
057975-022A	570-514-0	43	mg/Kg	9642	5	1	7/17/2002	7/23/2002
057975-023A	570-514-0.3	9.9	mg/Kg	9642	5	1	7/17/2002	7/23/2002

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Advanced Technology Laboratories

Date: 7/24/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057975
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/17/2002 5:25:0
Project No:		**Matrix:**	SOIL
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057975-024A	570-514-0.6	15	mg/Kg	9642	5	1	7/17/2002	7/23/2002
057975-025A	570-514-0.9	14	mg/Kg	9642	5	1	7/17/2002	7/23/2002
057975-026A	570-514-1.5	15	mg/Kg	9642	5	1	7/17/2002	7/23/2002
057975-027A	570-513-0	240	mg/Kg	9642	5	1	7/17/2002	7/23/2002
057975-028A	570-513-0.3	240	mg/Kg	9642	5	1	7/17/2002	7/23/2002
057975-029A	570-513-0.6	510	mg/Kg	9642	5	1	7/17/2002	7/23/2002
057975-030A	570-513-0.9	6.7	mg/Kg	9642	5	1	7/17/2002	7/23/2002
057975-031A	570-513-1.5	6.5	mg/Kg	9642	5	1	7/17/2002	7/23/2002
057975-032A	570-512-0	130	mg/Kg	9643	5	1	7/17/2002	7/23/2002
057975-033A	570-512-0.3	11	mg/Kg	9643	5	1	7/17/2002	7/23/2002
057975-034A	570-512-0.6	360	mg/Kg	9643	5	1	7/17/2002	7/23/2002

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Advanced Technology Laboratories

Date: 7/24/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057975
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/17/2002 5:25:0
Project No:		**Matrix:**	SOIL
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057975-035A	570-512-0.9	11	mg/Kg	9643	5	1	7/17/2002	7/23/2002
057975-036A	570-512-1.5	ND	mg/Kg	9643	5	1	7/17/2002	7/23/2002
057975-037A	570-511-0	32	mg/Kg	9643	5	1	7/17/2002	7/23/2002
057975-038A	570-511-0.3	28	mg/Kg	9643	5	1	7/17/2002	7/23/2002
057975-039A	570-511-0.6	9.8	mg/Kg	9643	5	1	7/17/2002	7/23/2002
057975-040A	570-511-0.9	48	mg/Kg	9643	5	1	7/17/2002	7/23/2002
057975-041A	570-511-1.5	47	mg/Kg	9643	5	1	7/17/2002	7/23/2002
057975-042A	570-510-0	360	mg/Kg	9643	5	1	7/17/2002	7/23/2002
057975-043A	570-510-0.3	15	mg/Kg	9643	5	1	7/17/2002	7/23/2002
057975-044A	570-510-0.6	180	mg/Kg	9643	5	1	7/17/2002	7/23/2002
057975-045A	570-510-0.9	18	mg/Kg	9643	5	1	7/17/2002	7/23/2002

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Advanced Technology Laboratories

Date: 7/24/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057975
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/17/2002 5:25:0
Project No:		**Matrix:**	SOIL
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057975-046A	570-510-1.5	9.5	mg/Kg	9643	5	1	7/17/2002	7/23/2002
057975-047A	570-507-0	150	mg/Kg	9643	5	1	7/17/2002	7/23/2002
057975-048A	570-507-0.3	14	mg/Kg	9643	5	1	7/17/2002	7/23/2002
057975-049A	570-507-0.6	160	mg/Kg	9643	5	1	7/17/2002	7/23/2002
057975-050A	570-507-0.9	10	mg/Kg	9643	5	1	7/17/2002	7/23/2002
057975-051A	570-507-1.5	5.4	mg/Kg	9643	5	1	7/17/2002	7/23/2002
057975-052A	570-803-0	140	mg/Kg	9644	5	1	7/17/2002	7/22/2002
057975-053A	570-803-0.3	340	mg/Kg	9644	5	1	7/17/2002	7/22/2002
057975-054A	570-803-0.6	260	mg/Kg	9644	5	1	7/17/2002	7/22/2002
057975-055A	570-803-0.9	ND	mg/Kg	9644	5	1	7/17/2002	7/22/2002
057975-056A	570-803-1.5	ND	mg/Kg	9644	5	1	7/17/2002	7/22/2002

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Date: 7/24/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057975
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/17/2002 5:25:0
Project No:		**Matrix:**	SOIL
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057975-057A	570-804-0	1000	mg/Kg	9644	5	1	7/17/2002	7/22/2002
057975-058A	570-804-0.3	36	mg/Kg	9644	5	1	7/17/2002	7/22/2002
057975-059A	570-804-0.6	720	mg/Kg	9644	5	1	7/17/2002	7/22/2002
057975-060A	570-804-0.9	8.8	mg/Kg	9644	5	1	7/17/2002	7/22/2002

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Date: 7/24/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057975
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/17/2002 5:25:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057975-002A	570-518-0.0	240	mg/Kg	9641	5	1	7/17/2002	7/23/2002
057975-003A	570-518-0.3	6.5	mg/Kg	9641	5	1	7/17/2002	7/23/2002
057975-004A	570-518-0.6	24	mg/Kg	9641	5	1	7/17/2002	7/23/2002
057975-005A	570-518-0.9	12	mg/Kg	9641	5	1	7/17/2002	7/23/2002
057975-006A	570-518-1.5	19	mg/Kg	9641	5	1	7/17/2002	7/23/2002
057975-007A	570-517-0	3200	mg/Kg	9641	5	1	7/17/2002	7/23/2002
057975-008A	570-517-0.3	1500	mg/Kg	9641	5	1	7/17/2002	7/23/2002
057975-009A	570-517-0.6	270	mg/Kg	9641	5	1	7/17/2002	7/23/2002
057975-010A	570-517-0.9	13	mg/Kg	9641	5	1	7/17/2002	7/23/2002
057975-011A	570-517-1.5	11	mg/Kg	9641	5	1	7/17/2002	7/23/2002
057975-012A	570-516-0	33	mg/Kg	9642	5	1	7/17/2002	7/23/2002

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LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057975
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/17/2002 5:25:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057975-013A	570-516-0.3	30	mg/Kg	9642	5	1	7/17/2002	7/23/2002
057975-014A	570-516-0.6	68	mg/Kg	9642	5	1	7/17/2002	7/23/2002
057975-015A	570-516-0.9	9.3	mg/Kg	9642	5	1	7/17/2002	7/23/2002
057975-016A	570-516-1.5	33	mg/Kg	9642	5	1	7/17/2002	7/23/2002
057975-017A	570-515-0	140	mg/Kg	9642	5	1	7/17/2002	7/23/2002
057975-018A	570-515-0.3	61	mg/Kg	9642	5	1	7/17/2002	7/23/2002
057975-019A	570-515-0.6	39	mg/Kg	9642	5	1	7/17/2002	7/23/2002
057975-020A	570-515-0.9	8.4	mg/Kg	9642	5	1	7/17/2002	7/23/2002
057975-021A	570-515-1.5	7.1	mg/Kg	9642	5	1	7/17/2002	7/23/2002
057975-022A	570-514-0	43	mg/Kg	9642	5	1	7/17/2002	7/23/2002
057975-023A	570-514-0.3	9.9	mg/Kg	9642	5	1	7/17/2002	7/23/2002

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Advanced Technology Laboratories

Date: 7/24/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057975
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/17/2002 5:25:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057975-024A	570-514-0.6	15	mg/Kg	9642	5	1	7/17/2002	7/23/2002
057975-025A	570-514-0.9	14	mg/Kg	9642	5	1	7/17/2002	7/23/2002
057975-026A	570-514-1.5	15	mg/Kg	9642	5	1	7/17/2002	7/23/2002
057975-027A	570-513-0	240	mg/Kg	9642	5	1	7/17/2002	7/23/2002
057975-028A	570-513-0.3	240	mg/Kg	9642	5	1	7/17/2002	7/23/2002
057975-029A	570-513-0.6	510	mg/Kg	9642	5	1	7/17/2002	7/23/2002
057975-030A	570-513-0.9	6.7	mg/Kg	9642	5	1	7/17/2002	7/23/2002
057975-031A	570-513-1.5	6.5	mg/Kg	9642	5	1	7/17/2002	7/23/2002
057975-032A	570-512-0	130	mg/Kg	9643	5	1	7/17/2002	7/23/2002
057975-033A	570-512-0.3	11	mg/Kg	9643	5	1	7/17/2002	7/23/2002
057975-034A	570-512-0.6	360	mg/Kg	9643	5	1	7/17/2002	7/23/2002

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Advanced Technology Laboratories

Date: 7/24/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057975
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/17/2002 5:25:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057975-035A	570-512-0.9	11	mg/Kg	9643	5	1	7/17/2002	7/23/2002
057975-036A	570-512-1.5	ND	mg/Kg	9643	5	1	7/17/2002	7/23/2002
057975-037A	570-511-0	32	mg/Kg	9643	5	1	7/17/2002	7/23/2002
057975-038A	570-511-0.3	28	mg/Kg	9643	5	1	7/17/2002	7/23/2002
057975-039A	570-511-0.6	9.8	mg/Kg	9643	5	1	7/17/2002	7/23/2002
057975-040A	570-511-0.9	48	mg/Kg	9643	5	1	7/17/2002	7/23/2002
057975-041A	570-511-1.5	47	mg/Kg	9643	5	1	7/17/2002	7/23/2002
057975-042A	570-510-0	360	mg/Kg	9643	5	1	7/17/2002	7/23/2002
057975-043A	570-510-0.3	15	mg/Kg	9643	5	1	7/17/2002	7/23/2002
057975-044A	570-510-0.6	180	mg/Kg	9643	5	1	7/17/2002	7/23/2002
057975-045A	570-510-0.9	18	mg/Kg	9643	5	1	7/17/2002	7/23/2002

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Advanced Technology Laboratories

Date: 7/24/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057975
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/17/2002 5:25:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057975-046A	570-510-1.5	9.5	mg/Kg	9643	5	1	7/17/2002	7/23/2002
057975-047A	570-507-0	150	mg/Kg	9643	5	1	7/17/2002	7/23/2002
057975-048A	570-507-0.3	14	mg/Kg	9643	5	1	7/17/2002	7/23/2002
057975-049A	570-507-0.6	160	mg/Kg	9643	5	1	7/17/2002	7/23/2002
057975-050A	570-507-0.9	10	mg/Kg	9643	5	1	7/17/2002	7/23/2002
057975-051A	570-507-1.5	5.4	mg/Kg	9643	5	1	7/17/2002	7/23/2002
057975-052A	570-803-0	140	mg/Kg	9644	5	1	7/17/2002	7/22/2002
057975-053A	570-803-0.3	340	mg/Kg	9644	5	1	7/17/2002	7/22/2002
057975-054A	570-803-0.6	260	mg/Kg	9644	5	1	7/17/2002	7/22/2002
057975-055A	570-803-0.9	ND	mg/Kg	9644	5	1	7/17/2002	7/22/2002
057975-056A	570-803-1.5	ND	mg/Kg	9644	5	1	7/17/2002	7/22/2002

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Advanced Technology Laboratories

Date: 7/24/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057975
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/17/2002 5:25:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057975-057A	570-804-0	1000	mg/Kg	9644	5	1	7/17/2002	7/22/2002
057975-058A	570-804-0.3	36	mg/Kg	9644	5	1	7/17/2002	7/22/2002
057975-059A	570-804-0.6	720	mg/Kg	9644	5	1	7/17/2002	7/22/2002
057975-060A	570-804-0.9	8.8	mg/Kg	9644	5	1	7/17/2002	7/22/2002

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J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
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3275 Walnut Avenue Signal Hill CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: 7/24/2002

pH
EPA 9045C

CLIENT:	Ninyo & Moore	**Lab Order:**	057975
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/17/2002 5:25:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057975-002A	570-518-0.0	8.23	pH Units	R19672	0.1	1	7/17/2002	7/23/2002
057975-012A	570-516-0	7.03	pH Units	R19672	0.1	1	7/17/2002	7/23/2002
057975-021A	570-515-1.5	7.61	pH Units	R19672	0.1	1	7/17/2002	7/23/2002
057975-031A	570-513-1.5	7.04	pH Units	R19672	0.1	1	7/17/2002	7/23/2002
057975-041A	570-511-1.5	7.95	pH Units	R19672	0.1	1	7/17/2002	7/23/2002
057975-051A	570-507-1.5	7.94	pH Units	R19672	0.1	1	7/17/2002	7/23/2002

Qualifiers:

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Advanced Technology Laboratories

Date: 8/1/2002

LEAD BY ATOMIC ABSORPTION
WET/ EPA 7420

CLIENT:	Ninyo & Moore	**Lab Order:**	057975
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/17/2002 5:25:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057975-002A	570-518-0.0	15	mg/L	9896	0.4	2	7/17/2002	7/29/2002
057975-009A	570-517-0.6	3.0	mg/L	9896	0.2	1	7/17/2002	7/29/2002
057975-014A	570-516-0.6	5.6	mg/L	9896	0.2	1	7/17/2002	7/29/2002
057975-017A	570-515-0	5.3	mg/L	9897	0.2	1	7/17/2002	7/31/2002
057975-018A	570-515-0.3	120	mg/L	9897	3.2	16	7/17/2002	7/31/2002
057975-027A	570-513-0	32	mg/L	9897	0.8	4	7/17/2002	7/31/2002
057975-028A	570-513-0.3	12	mg/L	9897	0.4	2	7/17/2002	7/31/2002
057975-029A	570-513-0.6	22	mg/L	9897	0.8	4	7/17/2002	7/31/2002
057975-032A	570-512-0	8.8	mg/L	9897	0.2	1	7/17/2002	7/31/2002
057975-034A	570-512-0.6	3.7	mg/L	9897	0.2	1	7/17/2002	7/31/2002
057975-042A	570-510-0	25	mg/L	9897	0.8	4	7/17/2002	7/31/2002

Qualifiers:

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Advanced Technology Laboratories

Date: 8/1/2002

LEAD BY ATOMIC ABSORPTION
WET/ EPA 7420

CLIENT:	Ninyo & Moore	**Lab Order:**	057975
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/17/2002 5:25:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057975-044A	570-510-0.6	31	mg/L	9897	0.8	4	7/17/2002	7/31/2002
057975-047A	570-507-0	8.3	mg/L	9897	0.2	1	7/17/2002	7/31/2002
057975-049A	570-507-0.6	9.4	mg/L	9897	0.2	1	7/17/2002	7/31/2002
057975-052A	570-803-0	1.0	mg/L	9897	0.2	1	7/17/2002	7/31/2002
057975-053A	570-803-0.3	5.0	mg/L	9897	0.2	1	7/17/2002	7/31/2002
057975-054A	570-803-0.6	7.0	mg/L	9897	0.2	1	7/17/2002	7/31/2002
057975-059A	570-804-0.6	64	mg/L	9897	1.6	8	7/17/2002	7/31/2002

Qualifiers:

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Advanced Technology Laboratories

Date: 8/7/2002

LEAD BY ATOMIC ABSORPTION
WET DI/ EPA 7420

CLIENT:	Ninyo & Moore	**Lab Order:**	057975
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/17/2002 5:25:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057975-002A	570-518-0.0	ND	mg/L	10031	0.2	1	7/17/2002	8/7/2002
057975-014A	570-516-0.6	ND	mg/L	10031	0.2	1	7/17/2002	8/7/2002
057975-017A	570-515-0	ND	mg/L	10031	0.2	1	7/17/2002	8/7/2002
057975-018A	570-515-0.3	ND	mg/L	10031	0.2	1	7/17/2002	8/7/2002
057975-027A	570-513-0	ND	mg/L	10031	0.2	1	7/17/2002	8/7/2002
057975-028A	570-513-0.3	ND	mg/L	10031	0.2	1	7/17/2002	8/7/2002
057975-029A	570-513-0.6	ND	mg/L	10031	0.2	1	7/17/2002	8/7/2002
057975-032A	570-512-0	ND	mg/L	10031	0.2	1	7/17/2002	8/7/2002
057975-042A	570-510-0	ND	mg/L	10031	0.2	1	7/17/2002	8/7/2002
057975-044A	570-510-0.6	ND	mg/L	10031	0.2	1	7/17/2002	8/7/2002
057975-047A	570-507-0	ND	mg/L	10031	0.2	1	7/17/2002	8/7/2002

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Advanced Technology Laboratories

Date: 8/7/2002

LEAD BY ATOMIC ABSORPTION
WET DI/ EPA 7420

CLIENT:	Ninyo & Moore	**Lab Order:**	057975
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/17/2002 5:25:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057975-049A	570-507-0.6	ND	mg/L	10031	0.2	1	7/17/2002	8/7/2002
057975-054A	570-803-0.6	ND	mg/L	10031	0.2	1	7/17/2002	8/7/2002
057975-059A	570-804-0.6	ND	mg/L	10031	0.2	1	7/17/2002	8/7/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: *13-Aug-02*

CLIENT: Ninyo & Moore
Client Sample ID: 570-517-0
Lab Order: 057975
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Collection Date: 7/17/2002 9:09:00 AM
Lab ID: 057975-007A
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS						
	(EPA 3050A)			**EPA 6010B**		
RunID: ICP5_020810A	QC Batch: 10212					Analyst: **RQ**
Antimony	ND	2.5		mg/Kg	10	8/10/2002
Arsenic	3.1	2.5		mg/Kg	10	8/10/2002
Barium	180	1.5		mg/Kg	10	8/10/2002
Beryllium	ND	1.5		mg/Kg	10	8/10/2002
Cadmium	ND	1.5		mg/Kg	10	8/10/2002
Chromium	25	1.5		mg/Kg	10	8/10/2002
Cobalt	15	1.5		mg/Kg	10	8/10/2002
Copper	45	1.5		mg/Kg	10	8/10/2002
Molybdenum	ND	2.5		mg/Kg	10	8/10/2002
Nickel	20	1.5		mg/Kg	10	8/10/2002
Selenium	6.9	2.5		mg/Kg	10	8/10/2002
Silver	ND	1.5		mg/Kg	10	8/10/2002
Thallium	ND	2.5		mg/Kg	10	8/10/2002
Vanadium	57	1.5		mg/Kg	10	8/10/2002
Zinc	220	5.0		mg/Kg	10	8/10/2002
MERCURY BY COLD VAPOR TECHNIQUE						
	(EPA 7471)			**EPA 7471A**		
RunID: AA1_020809D	QC Batch: 10167					Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1	8/9/2002

Qualifiers:

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Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: *13-Aug-02*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	570-514-0.3
Lab Order:	057975		
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Collection Date:**	7/17/2002 9:48:00 AM
Lab ID:	057975-023A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS						
	(EPA 3050A)			**EPA 6010B**		
RunID: ICP5_020810A	QC Batch: 10212					Analyst: **RQ**
Antimony	ND	2.5		mg/Kg	10	8/10/2002
Arsenic	ND	2.5		mg/Kg	10	8/10/2002
Barium	180	1.5		mg/Kg	10	8/10/2002
Beryllium	ND	1.5		mg/Kg	10	8/10/2002
Cadmium	ND	1.5		mg/Kg	10	8/10/2002
Chromium	26	1.5		mg/Kg	10	8/10/2002
Cobalt	19	1.5		mg/Kg	10	8/10/2002
Copper	30	1.5		mg/Kg	10	8/10/2002
Molybdenum	ND	2.5		mg/Kg	10	8/10/2002
Nickel	21	1.5		mg/Kg	10	8/10/2002
Selenium	7.9	2.5		mg/Kg	10	8/10/2002
Silver	ND	1.5		mg/Kg	10	8/10/2002
Thallium	ND	2.5		mg/Kg	10	8/10/2002
Vanadium	67	1.5		mg/Kg	10	8/10/2002
Zinc	78	5.0		mg/Kg	10	8/10/2002
MERCURY BY COLD VAPOR TECHNIQUE						
	(EPA 7471)			**EPA 7471A**		
RunID: AA1_020809D	QC Batch: 10167					Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1	8/9/2002

Qualifiers:

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J - Analyte detected below quantitation limits
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DO - Surrogate Diluted Out
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Results are wet unless otherwise specified

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Date: *13-Aug-02*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	570-511-0.9
Lab Order:	057975		
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Collection Date:**	7/17/2002 10:25:00 AM
Lab ID:	057975-040A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS						
	(EPA 3050A)			**EPA 6010B**		
RunID: ICP5_020810A	QC Batch: 10212					Analyst: **RQ**
Antimony	ND	2.5		mg/Kg	10	8/10/2002
Arsenic	ND	2.5		mg/Kg	10	8/10/2002
Barium	160	1.5		mg/Kg	10	8/10/2002
Beryllium	ND	1.5		mg/Kg	10	8/10/2002
Cadmium	ND	1.5		mg/Kg	10	8/10/2002
Chromium	25	1.5		mg/Kg	10	8/10/2002
Cobalt	17	1.5		mg/Kg	10	8/10/2002
Copper	26	1.5		mg/Kg	10	8/10/2002
Molybdenum	ND	2.5		mg/Kg	10	8/10/2002
Nickel	20	1.5		mg/Kg	10	8/10/2002
Selenium	5.6	2.5		mg/Kg	10	8/10/2002
Silver	ND	1.5		mg/Kg	10	8/10/2002
Thallium	ND	2.5		mg/Kg	10	8/10/2002
Vanadium	65	1.5		mg/Kg	10	8/10/2002
Zinc	93	5.0		mg/Kg	10	8/10/2002
MERCURY BY COLD VAPOR TECHNIQUE						
	(EPA 7471)			**EPA 7471A**		
RunID: AA1_020809D	QC Batch: 10167					Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1	8/9/2002

Qualifiers:

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Advanced Technology Laboratories

Date: *13-Aug-02*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	570-804-0
Lab Order:	057975		
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Collection Date:**	7/17/2002 12:00:00 PM
Lab ID:	057975-057A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS						
	(EPA 3050A)			**EPA 6010B**		
RunID: ICP5_020810A	QC Batch: 10212					Analyst: **RQ**
Antimony	ND	2.5		mg/Kg	10	8/10/2002
Arsenic	4.7	2.5		mg/Kg	10	8/10/2002
Barium	170	1.5		mg/Kg	10	8/10/2002
Beryllium	ND	1.5		mg/Kg	10	8/10/2002
Cadmium	2.8	1.5		mg/Kg	10	8/10/2002
Chromium	35	1.5		mg/Kg	10	8/10/2002
Cobalt	14	1.5		mg/Kg	10	8/10/2002
Copper	61	1.5		mg/Kg	10	8/10/2002
Molybdenum	2.5	2.5		mg/Kg	10	8/10/2002
Nickel	29	1.5		mg/Kg	10	8/10/2002
Selenium	8.4	2.5		mg/Kg	10	8/10/2002
Silver	ND	1.5		mg/Kg	10	8/10/2002
Thallium	ND	2.5		mg/Kg	10	8/10/2002
Vanadium	53	1.5		mg/Kg	10	8/10/2002
Zinc	440	5.0		mg/Kg	10	8/10/2002
MERCURY BY COLD VAPOR TECHNIQUE						
	(EPA 7471)			**EPA 7471A**		
RunID: AA1_020809D	QC Batch: 10167					Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1	8/9/2002

Qualifiers:

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J - Analyte detected below quantitation limits
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Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: 8/15/2002

LEAD BY ATOMIC ABSORPTION
EPA 1311/ 7420

CLIENT:	Ninyo & Moore	**Lab Order:**	057975
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/17/2002 5:25:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057975-002A	570-518-0.0	ND	mg/L	10365	0.2	1	7/17/2002	8/15/2002
057975-007A	570-517-0	6.6	mg/L	10087	0.2	1	7/17/2002	8/6/2002
057975-008A	570-517-0.3	0.89	mg/L	10087	0.2	1	7/17/2002	8/6/2002
057975-018A	570-515-0.3	ND	mg/L	10365	0.2	1	7/17/2002	8/15/2002
057975-027A	570-513-0	0.84	mg/L	10365	0.2	1	7/17/2002	8/15/2002
057975-029A	570-513-0.6	0.22	mg/L	10365	0.2	1	7/17/2002	8/15/2002
057975-042A	570-510-0	0.23	mg/L	10365	0.2	1	7/17/2002	8/15/2002
057975-044A	570-510-0.6	1.0	mg/L	10365	0.2	1	7/17/2002	8/15/2002
057975-057A	570-804-0	2.8	mg/L	10087	0.2	1	7/17/2002	8/6/2002
057975-059A	570-804-0.6	ND	mg/L	10365	0.2	1	7/17/2002	8/15/2002

Qualifiers:

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Advanced Technology Laboratories

Date: *15-Aug-02*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	570-513-0.3
Lab Order:	057975		
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Collection Date:**	7/17/2002 9:59:00 AM
Lab ID:	057975-028A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
LEAD BY ICP						
	(EPA 3050M)			**EPA 6010B**		
RunID: ICP2_020814E	QC Batch: 10251					Analyst: **RQ**
Lead	380	5.0		mg/Kg	1	8/14/2002
Lead	240	5.0		mg/Kg	1	7/23/2002

Qualifiers:

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Advanced Technology Laboratories
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Advanced Technology Laboratories

Date: *15-Aug-02*

CLIENT: Ninyo & Moore
Work Order: 057975
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10031

Sample ID: **MB-10031** SampType: **mblk** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/7/2002** Run ID: **AA2_020807A**
Client ID: **ZZZZZ** Batch ID: **10031** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/7/2002** SeqNo: **314787**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-10031A** SampType: **mblk** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/1/2002** Run ID: **AA2_020807A**
Client ID: **ZZZZZ** Batch ID: **10031** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/7/2002** SeqNo: **314788**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-10031B** SampType: **mblk** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/1/2002** Run ID: **AA2_020807A**
Client ID: **ZZZZZ** Batch ID: **10031** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/7/2002** SeqNo: **314801**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-10031** SampType: **lcs** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/7/2002** Run ID: **AA2_020807A**
Client ID: **ZZZZZ** Batch ID: **10031** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/7/2002** SeqNo: **314815**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.355	0.20	7.5	0	98.1	80	120	0	0		

Sample ID: **057975-044AMS** SampType: **MS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/7/2002** Run ID: **AA2_020807A**
Client ID: **570-510-0.6** Batch ID: **10031** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/7/2002** SeqNo: **314800**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.077	0.20	5	0	102	80	120	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

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CLIENT: Ninyo & Moore
Work Order: 057975
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10031

Sample ID: **057976-031AMS** SampType: **MS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/7/2002** Run ID: **AA2_020807A**
Client ID: **ZZZZZ** Batch ID: **10031** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/7/2002** SeqNo: **314813**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.894	0.20	5	0	97.9	80	120	0	0		

Sample ID: **057975-044ADUP** SampType: **DUP** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/1/2002** Run ID: **AA2_020807A**
Client ID: **570-510-0.6** Batch ID: **10031** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/7/2002** SeqNo: **314799**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20	0	0	0	0	0	0	0	30	

Sample ID: **057976-031ADUP** SampType: **DUP** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/1/2002** Run ID: **AA2_020807A**
Client ID: **ZZZZZ** Batch ID: **10031** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/7/2002** SeqNo: **314812**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20	0	0	0	0	0	0	0	30	

Qualifiers:
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S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

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CLIENT: Ninyo & Moore
Work Order: 057975
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10087

Sample ID: **MB-10087** SampType: **mblk** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806H**
Client ID: **ZZZZZ** Batch ID: **10087** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314602**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-10078-TCLP** SampType: **mblk** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806H**
Client ID: **ZZZZZ** Batch ID: **10087** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314603**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-10087** SampType: **lcs** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806H**
Client ID: **ZZZZZ** Batch ID: **10087** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314617**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.184	0.20	1	0	118	80	120	0	0		

Sample ID: **057978-007AMS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806H**
Client ID: **ZZZZZ** Batch ID: **10087** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314615**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.241	0.20	2.717	0.09022	116	80	120	0	0		

Sample ID: **057978-007ADUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806H**
Client ID: **ZZZZZ** Batch ID: **10087** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314614**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20	0	0	0	0	0	0.09022	0	30	

Qualifiers:
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Calculations are based on raw values
DO - Surrogate diluted out
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ANALYTICAL QC SUMMARY REPORT

BatchID: 10167

Sample ID: **MB-10167** SampType: **mblk** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809D**
Client ID: **ZZZZZ** Batch ID: **10167** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316751**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: **LCS-10167** SampType: **lcs** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809D**
Client ID: **ZZZZZ** Batch ID: **10167** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316750**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.232	0.10	2.08	0	107	80	120	0	0		

Sample ID: **057978-007AMS** SampType: **MS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809D**
Client ID: **ZZZZZ** Batch ID: **10167** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316748**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.9805	0.10	0.83	0.03622	114	62	146	0	0		

Sample ID: **057978-007AMSD** SampType: **MSD** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809D**
Client ID: **ZZZZZ** Batch ID: **10167** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316749**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.9802	0.10	0.83	0.03622	114	62	146	0.9805	0.0281	33	

Sample ID: **057978-007ADUP** SampType: **DUP** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809D**
Client ID: **ZZZZZ** Batch ID: **10167** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316747**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.03011	0.10	0	0	0	0	0	0.03622	0	30	J

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 10212

Sample ID: **MB-10212** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP5_020810A**
Client ID: **ZZZZZ** Batch ID: **10212** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316619**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	0.25									
Arsenic	0.1147	0.25									
Barium	0.003603	0.15									
Beryllium	0.002941	0.15									
Cadmium	0.004818	0.15									
Chromium	ND	0.15									
Cobalt	0.01964	0.15									
Copper	0.008961	0.15									
Molybdenum	0.04121	0.25									
Nickel	0.0113	0.15									
Selenium	ND	0.25									
Silver	ND	0.15									
Thallium	0.1531	0.25									
Vanadium	ND	0.15									
Zinc	0.08338	0.50									

Sample ID: **LCS-10212** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP5_020810A**
Client ID: **ZZZZZ** Batch ID: **10212** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316618**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	48.68	0.25	50	0	97.4	80	120	0	0		
Arsenic	51.35	0.25	50	0	103	80	120	0	0		
Barium	48.71	0.15	50	0	97.4	80	120	0	0		
Beryllium	47.87	0.15	50	0	95.7	80	120	0	0		
Cadmium	48.67	0.15	50	0	97.3	80	120	0	0		
Chromium	48.68	0.15	50	0	97.4	80	120	0	0		
Cobalt	48.29	0.15	50	0	96.6	80	120	0	0		
Copper	47.01	0.15	50	0	94	80	120	0	0		
Molybdenum	49.69	0.25	50	0	99.4	80	120	0	0		
Nickel	46.93	0.15	50	0	93.9	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike/Surrogate outside limits due to matrix interference; DO - Surrogate diluted out
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R - RPD outside accepted recovery limits; **Calculations are based on raw values**

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Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10212

Sample ID: **LCS-10212** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP5_020810A**
Client ID: **ZZZZZ** Batch ID: **10212** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316618**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	50.21	0.25	50	0	100	80	120	0	0		
Silver	47.28	0.15	50	0	94.6	80	120	0	0		
Thallium	48.85	0.25	50	0	97.7	80	120	0	0		
Vanadium	49.59	0.15	50	0	99.2	80	120	0	0		
Zinc	51.34	0.50	50	0	103	80	120	0	0		

Sample ID: **057976-039AMS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP5_020810A**
Client ID: **ZZZZZ** Batch ID: **10212** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316615**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	96.62	2.5	125	0.7801	76.7	32	115	0	0		
Arsenic	127.7	2.5	125	0.5443	102	59	111	0	0		
Barium	194	1.5	125	66.27	102	34	151	0	0		
Beryllium	123.9	1.5	125	0	99.1	56	112	0	0		
Cadmium	127.7	1.5	125	0.3148	102	52	120	0	0		
Chromium	145.5	1.5	125	16.31	103	56	118	0	0		
Cobalt	138.7	1.5	125	10.8	102	58	117	0	0		
Copper	141.6	1.5	125	13.91	102	58	134	0	0		
Molybdenum	123.8	2.5	125	0	99.1	56	115	0	0		
Nickel	135.3	1.5	125	10.63	99.8	52	120	0	0		
Selenium	136.5	2.5	125	4.448	106	46	108	0	0		
Silver	122.2	1.5	125	0	97.8	74	117	0	0		
Thallium	119.1	2.5	125	0	95.3	62	117	0	0		
Vanadium	177.1	1.5	125	44.22	106	55	122	0	0		
Zinc	175.7	5.0	125	42.27	107	43	134	0	0		

Sample ID: **057976-039AMSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP5_020810A**
Client ID: **ZZZZZ** Batch ID: **10212** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316616**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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ANALYTICAL QC SUMMARY REPORT

BatchID: 10212

Sample ID: **057976-039AMSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP5_020810A**
Client ID: **ZZZZZ** Batch ID: **10212** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316616**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	94.39	2.5	125	0.7801	74.9	32	115	96.62	2.34	20	
Arsenic	124.1	2.5	125	0.5443	98.8	59	111	127.7	2.85	20	
Barium	189.1	1.5	125	66.27	98.2	34	151	194	2.60	20	
Beryllium	116	1.5	125	0	92.8	56	112	123.9	6.62	20	
Cadmium	123.3	1.5	125	0.3148	98.4	52	120	127.7	3.48	20	
Chromium	136	1.5	125	16.31	95.8	56	118	145.5	6.70	20	
Cobalt	134.7	1.5	125	10.8	99.1	58	117	138.7	2.95	20	
Copper	133.5	1.5	125	13.91	95.6	58	134	141.6	5.89	20	
Molybdenum	119.9	2.5	125	0	95.9	56	115	123.8	3.21	20	
Nickel	130.8	1.5	125	10.63	96.2	52	120	135.3	3.39	20	
Selenium	131.4	2.5	125	4.448	102	46	108	136.5	3.82	20	
Silver	116.9	1.5	125	0	93.5	74	117	122.2	4.43	20	
Thallium	115.2	2.5	125	0	92.2	62	117	119.1	3.34	20	
Vanadium	167.3	1.5	125	44.22	98.5	55	122	177.1	5.66	20	
Zinc	167.6	5.0	125	42.27	100	43	134	175.7	4.72	20	

Sample ID: **057976-039ADUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP5_020810A**
Client ID: **ZZZZZ** Batch ID: **10212** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316614**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	1.827	2.5	0	0	0	0	0	0.7801	0	30	J
Arsenic	0.6013	2.5	0	0	0	0	0	0.5443	0	30	J
Barium	67.22	1.5	0	0	0	0	0	66.27	1.43	30	
Beryllium	ND	1.5	0	0	0	0	0	0	0	30	
Cadmium	0.3312	1.5	0	0	0	0	0	0.3148	0	30	J
Chromium	16.43	1.5	0	0	0	0	0	16.31	0.692	30	
Cobalt	10.53	1.5	0	0	0	0	0	10.8	2.54	30	
Copper	15.87	1.5	0	0	0	0	0	13.91	13.1	30	
Molybdenum	0.05129	2.5	0	0	0	0	0	0	0	30	J
Nickel	10.75	1.5	0	0	0	0	0	10.63	1.05	30	

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; S - Spike/Surrogate outside limits due to matrix interference; B - Analyte detected in the associated Method Blank; **Calculations are based on raw values**; DO - Surrogate diluted out; H - Sample exceeded holding time

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ANALYTICAL QC SUMMARY REPORT

BatchID: 10212

Sample ID: **057976-039ADUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP5_020810A**
Client ID: **ZZZZZ** Batch ID: **10212** TestNo: **EPA 6010B (EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316614**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	9.746	2.5	0	0	0	0	0	4.448	74.7	30	R
Silver	ND	1.5	0	0	0	0	0	0	0	30	
Thallium	ND	2.5	0	0	0	0	0	0	0	30	
Vanadium	45.9	1.5	0	0	0	0	0	44.22	3.73	30	
Zinc	47.12	5.0	0	0	0	0	0	42.27	10.9	30	

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 10251

Sample ID: **MB-10251** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **8/13/2002** Run ID: **ICP2_020814E**
Client ID: **ZZZZZ** Batch ID: **10251** TestNo: **EPA 6010B (EPA 3050M)** Analysis Date: **8/14/2002** SeqNo: **318640**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-10251** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **8/13/2002** Run ID: **ICP2_020814E**
Client ID: **ZZZZZ** Batch ID: **10251** TestNo: **EPA 6010B (EPA 3050M)** Analysis Date: **8/14/2002** SeqNo: **318641**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	246	5.0	250	0	98.4	80	120	0	0		

Sample ID: **058066-007AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **8/13/2002** Run ID: **ICP2_020814E**
Client ID: **ZZZZZ** Batch ID: **10251** TestNo: **EPA 6010B (EPA 3050M)** Analysis Date: **8/14/2002** SeqNo: **318650**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	262.5	5.0	250	379	-46.6	47	128	0	0		S

Sample ID: **058066-007ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **8/13/2002** Run ID: **ICP2_020814E**
Client ID: **ZZZZZ** Batch ID: **10251** TestNo: **EPA 6010B (EPA 3050M)** Analysis Date: **8/14/2002** SeqNo: **318649**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	55.5	5.0	0	0	0	0	0	379	149	30	R

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 10365

Sample ID: **MB-10365** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/14/2002** Run ID: **AA2_020814Y**
Client ID: **ZZZZZ** Batch ID: **10365** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/15/2002** SeqNo: **319063**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-10274-TCLP** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/14/2002** Run ID: **AA2_020814Y**
Client ID: **ZZZZZ** Batch ID: **10365** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/15/2002** SeqNo: **319064**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-10365** SampType: **LCS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/14/2002** Run ID: **AA2_020814Y**
Client ID: **ZZZZZ** Batch ID: **10365** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/15/2002** SeqNo: **319078**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.189	0.20	1	0	119	80	120	0	0		

Sample ID: **057976-009AMS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/14/2002** Run ID: **AA2_020814Y**
Client ID: **ZZZZZ** Batch ID: **10365** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/15/2002** SeqNo: **319076**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.274	0.20	2.5	1.259	121	80	120	0	0		S

Sample ID: **057976-009ADUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/14/2002** Run ID: **AA2_020814Y**
Client ID: **ZZZZZ** Batch ID: **10365** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/15/2002** SeqNo: **319075**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.193	0.20	0	0	0	0	0	1.259	5.35	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
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Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

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Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 9641

Sample ID: **MB-9641A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723B**
Client ID: **ZZZZZ** Batch ID: **9641** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **303686**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **MB-9641B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723B**
Client ID: **ZZZZZ** Batch ID: **9641** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **303687**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-9641** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723B**
Client ID: **ZZZZZ** Batch ID: **9641** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **303685**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	247.5	5.0	250	0	99	80	120	0	0		

Sample ID: **057974-038AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723B**
Client ID: **ZZZZZ** Batch ID: **9641** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **303671**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	417.6	5.0	250	192.9	89.9	47	128	0	0		

Sample ID: **057975-011AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723B**
Client ID: **570-517-1.5** Batch ID: **9641** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **303683**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	216.8	5.0	250	11.02	82.3	47	128	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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DO - Surrogate diluted out
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9641

Sample ID: **057974-038ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723B**
Client ID: **ZZZZZ** Batch ID: **9641** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **303670**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	183.1	5.0	0	0	0	0	0	192.9	5.21	30	

Sample ID: **057975-011ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723B**
Client ID: **570-517-1.5** Batch ID: **9641** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **303682**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	14.66	5.0	0	0	0	0	0	11.02	28.3	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9642

Sample ID: **MB-9642A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723C**
Client ID: **ZZZZZ** Batch ID: **9642** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **303714**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **MB-9642B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723C**
Client ID: **ZZZZZ** Batch ID: **9642** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **303715**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-9642** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723C**
Client ID: **ZZZZZ** Batch ID: **9642** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **303713**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	245.5	5.0	250	0	98.2	80	120	0	0		

Sample ID: **057975-021AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723C**
Client ID: **570-515-1.5** Batch ID: **9642** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **303699**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	228.6	5.0	250	7.142	88.6	47	128	0	0		

Sample ID: **057975-031AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723C**
Client ID: **570-513-1.5** Batch ID: **9642** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **303711**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	238.7	5.0	250	6.526	92.9	47	128	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9642

Sample ID: **057975-021ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723C**
Client ID: **570-515-1.5** Batch ID: **9642** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **303698**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	9.697	5.0	0	0	0	0	0	7.142	30.3	30	R

Sample ID: **057975-031ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723C**
Client ID: **570-513-1.5** Batch ID: **9642** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **303710**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	6.933	5.0	0	0	0	0	0	6.526	6.05	30	

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9643

Sample ID: **MB-9643A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723D**
Client ID: **ZZZZZ** Batch ID: **9643** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **303742**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **MB-9643B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723D**
Client ID: **ZZZZZ** Batch ID: **9643** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **303743**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-9643** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723D**
Client ID: **ZZZZZ** Batch ID: **9643** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **303741**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	245.9	5.0	250	0	98.3	80	120	0	0		

Sample ID: **057975-041AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723D**
Client ID: **570-511-1.5** Batch ID: **9643** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **303727**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	292.9	5.0	250	47.25	98.3	47	128	0	0		

Sample ID: **057975-051AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723D**
Client ID: **570-507-1.5** Batch ID: **9643** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **303739**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	229.1	5.0	250	5.415	89.5	47	128	0	0		

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9643

Sample ID: **057975-041ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723D**
Client ID: **570-511-1.5** Batch ID: **9643** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **303726**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	50.7	5.0	0	0	0	0	0	47.25	7.06	30	

Sample ID: **057975-051ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723D**
Client ID: **570-507-1.5** Batch ID: **9643** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **303738**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.709	5.0	0	0	0	0	0	5.415	35.0	30	R

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9644

Sample ID: **MB-9644A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020722G**
Client ID: **ZZZZZ** Batch ID: **9644** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/22/2002** SeqNo: **303293**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **MB-9644B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020722G**
Client ID: **ZZZZZ** Batch ID: **9644** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/22/2002** SeqNo: **303294**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-9644** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020722G**
Client ID: **ZZZZZ** Batch ID: **9644** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/22/2002** SeqNo: **303292**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	223.6	5.0	250	0	89.4	80	120	0	0		

Sample ID: **057976-002AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020722G**
Client ID: **ZZZZZ** Batch ID: **9644** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/22/2002** SeqNo: **303278**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1102	5.0	250	644.2	183	47	128	0	0		S

Sample ID: **057976-012AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020722G**
Client ID: **ZZZZZ** Batch ID: **9644** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/22/2002** SeqNo: **303290**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1404	5.0	250	988.5	166	47	128	0	0		S

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9644

Sample ID: **057976-002ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020722G**
Client ID: **ZZZZZ** Batch ID: **9644** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/22/2002** SeqNo: **303277**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	709.6	5.0	0	0	0	0	0	644.2	9.66	30	

Sample ID: **057976-012ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020722G**
Client ID: **ZZZZZ** Batch ID: **9644** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/22/2002** SeqNo: **303289**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	968.4	5.0	0	0	0	0	0	988.5	2.05	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
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Calculations are based on raw values
DO - Surrogate diluted out
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9745

Sample ID: **MB-9745** SampType: **MBLK** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/22/2002** Run ID: **ICP2_020723B**
Client ID: **ZZZZZ** Batch ID: **9745** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/23/2002** SeqNo: **303590**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.0050									

Sample ID: **LCS-9745** SampType: **LCS** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/22/2002** Run ID: **ICP2_020723B**
Client ID: **ZZZZZ** Batch ID: **9745** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/23/2002** SeqNo: **303591**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.96	0.0050	1	0	96	80	120	0	0		

Sample ID: **057999-001AMS** SampType: **MS** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/22/2002** Run ID: **ICP2_020723B**
Client ID: **ZZZZZ** Batch ID: **9745** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/23/2002** SeqNo: **303603**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.54	0.0050	2.5	0	102	66	118	0	0		

Sample ID: **057999-001ADUP** SampType: **DUP** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/22/2002** Run ID: **ICP2_020723B**
Client ID: **ZZZZZ** Batch ID: **9745** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/23/2002** SeqNo: **303602**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.0050	0	0	0	0	0	0	0	30	

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9896

Sample ID: **MB-9896** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/29/2002** Run ID: **AA2_020729C**
Client ID: **ZZZZZ** Batch ID: **9896** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/29/2002** SeqNo: **309233**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9896A** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020729C**
Client ID: **ZZZZZ** Batch ID: **9896** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/29/2002** SeqNo: **309234**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9896B** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020729C**
Client ID: **ZZZZZ** Batch ID: **9896** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/29/2002** SeqNo: **309247**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.06413	0.20									

Sample ID: **LCS-9896** SampType: **LCS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/29/2002** Run ID: **AA2_020729C**
Client ID: **ZZZZZ** Batch ID: **9896** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/29/2002** SeqNo: **309261**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.755	0.20	7.5	0	103	80	120	0	0		

Sample ID: **057974-021AMS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/29/2002** Run ID: **AA2_020729C**
Client ID: **ZZZZZ** Batch ID: **9896** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/29/2002** SeqNo: **309246**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	313	8.0	200	81.36	116	80	120	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Ninyo & Moore
Work Order: 057975
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 9896

Sample ID: **057975-014AMS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/29/2002** Run ID: **AA2_020729C**
Client ID: **570-516-0.6** Batch ID: **9896** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/29/2002** SeqNo: **309259**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	15.21	0.40	10	5.625	95.9	80	120	0	0		

Sample ID: **057974-021ADUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020729C**
Client ID: **ZZZZZ** Batch ID: **9896** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/29/2002** SeqNo: **309245**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	80.86	2.0	0	0	0	0	0	81.36	0.611	30	

Sample ID: **057975-014ADUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020729C**
Client ID: **570-516-0.6** Batch ID: **9896** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/29/2002** SeqNo: **309258**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	15.68	0.40	0	0	0	0	0	5.625	94.4	30	R

Qualifiers:
ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Ninyo & Moore
Work Order: 057975
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 9897

Sample ID: **MB-9897** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/31/2002** Run ID: **AA2_020731C**
Client ID: **ZZZZZ** Batch ID: **9897** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/31/2002** SeqNo: **310452**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9897A** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020731C**
Client ID: **ZZZZZ** Batch ID: **9897** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/31/2002** SeqNo: **310453**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9897B** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020731C**
Client ID: **ZZZZZ** Batch ID: **9897** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/31/2002** SeqNo: **310476**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-9897** SampType: **LCS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/31/2002** Run ID: **AA2_020731C**
Client ID: **ZZZZZ** Batch ID: **9897** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/31/2002** SeqNo: **310511**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	6.908	0.20	7.5	0	92.1	80	120	0	0		

Sample ID: **057975-047AMS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/31/2002** Run ID: **AA2_020731C**
Client ID: **570-507-0** Batch ID: **9897** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/31/2002** SeqNo: **310473**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	16.64	0.40	10	8.317	83.2	80	120	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Ninyo & Moore
Work Order: 057975
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 9897

Sample ID: **057976-009AMS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/31/2002** Run ID: **AA2_020731C**
Client ID: **ZZZZZ** Batch ID: **9897** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/31/2002** SeqNo: **310509**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	68.91	1.6	40	33.54	88.4	80	120	0	0		

Sample ID: **057975-047ADUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020731C**
Client ID: **570-507-0** Batch ID: **9897** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/31/2002** SeqNo: **310471**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	8.02	0.20	0	0	0	0	0	8.317	3.64	30	

Sample ID: **057976-009ADUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020731C**
Client ID: **ZZZZZ** Batch ID: **9897** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/31/2002** SeqNo: **310508**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	33.45	0.80	0	0	0	0	0	33.54	0.285	30	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Ninyo & Moore
Work Order: 057975
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: R19672

Sample ID: **057976-034ADUP** SampType: **DUP** TestCode: **9045_S** Units: **pH Units** Prep Date: **7/23/2002** Run ID: **WETCHEM_020723B**
Client ID: **ZZZZZ** Batch ID: **R19672** TestNo: **EPA 9045C** Analysis Date: **7/23/2002** SeqNo: **303785**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.522	0.10	0	0	0	0	0	7.553	0.411	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

Rachelle

From: Steve Reese [sreese@ninyoandmoore.com]
Sent: Wednesday, July 31, 2002 9:27 AM
To: 'rachelle@atlglobal.com'
Cc: David Shaler (E-mail); Ruth Cheung (E-mail)
Subject: TCLP Analysis

TCLP.xls

Rachelle,
Attached please find a list of samples to be run for the TCLP analysis. Currently, we selected all of the samples that are greater than 1,000 mg/kg
of TTLC results. However, they will be ran by instruction only. There may
be more samples chosen for TCLP analysis in the future, but please run these 82 samples for now. Please call with any questions.
Thank you, Steve

Stephen S. Reese
Senior Staff Environmental Scientist
Ninyo & Moore Geotechnical & Environmental Sciences Consultants
475 Goddard, Suite 200
Irvine, California 92618
Tel: (949) 753-7070
Fax: (949) 753-7071
Email: sreese@ninyoandmoore.com
www.ninyoandmoore.com

RUN FOR TCLP ANALYSIS			
33	20	29	82
569-101-0	570-101-0	571-104-0	
569-102-0	570-101-0.6	571-120-0	
569-102-0.3	570-102-0.6	571-310-0.9	
569-102-0.9	570-103-1.5	571-317-0	
569-111-0	570-114-0.6	571-320-0	
569-112-0	570-115-0	571-325-0.6	
569-112-0.6	570-119-0.3	571-507-0	
569-201-0	570-201-0	571-511-0	
569-212-0	570-214-0	571-514-0	
569-301-0	570-311-0.6	571-524-0	
569-303-0.9	570-312-0.6	571-710-0	
569-314-0	570-504-0	571-710-0.3	
569-401-0	570-508-0	571-711-0	
569-404-0.6	570-517-0	571-711-0.3	
569-405-0.6	570-517-0.3	571-712-0	
569-408-0.9	570-610-0.6	571-712-0.3	
569-502-0.6	570-615-0	571-201-0.6	
569-516-0	570-706-0	571-405-0	
569-603-0.3	570-709-0	571-406-0	
569-607-0	570-808-0.6	571-407-0	
569-607-0.3		571-414-0	
569-609-0		571-609-0	
569-609-0.3		571-611-0	
569-703-0		571-616-0	
569-703-0.9		571-617-0	
569-705-0		571-619-1.5	
569-705-0.3		571-814-0.3	
569-706-0		571-818-0.6	
569-708-0		571-819-0	
569-710-0			
569-711-0			
569-711-0.3			
569-801-0.3			

Rachelle

From: Steve Reese [sreese@ninyoandmoore.com]
Sent: Wednesday, July 31, 2002 3:04 PM
To: Rachelle@Advanced Labs (E-mail)
Cc: David Shaler (E-mail); Ruth Cheung (E-mail)
Subject: More TCLP Analyses

TCLP-2.xls

Rachelle,
Attached please find a list of 8 more TCLP analyses. Thanks, Steve

Stephen S. Reese
Senior Staff Environmental Scientist
Ninyo & Moore Geotechnical & Environmental Sciences Consultants
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Irvine, California 92618
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Email: sreese@ninyoandmoore.com
www.ninyoandmoore.com

RUN FOR TCLP ANALYSIS			
1	5	2	8
569-805-0.3	570-113-0.3	571-214-0.3	
	570-712-0.6	571-618-0.9	
	570-208-0		
	570-804-0		
	570-812-0.3		

Rachelle

From: Ruth Cheung [rcheung@ninyoandmoore.com]
Sent: Tuesday, August 06, 2002 3:46 PM
To: 'Rachelle'; 'David Shaler (E-mail)'
Subject: Title 22 Metals

Title 22 Metals.xls

Rachelle,
Please run the following samples for Title 22 Metals. Please do not list
Pb in your emailed results. There should be a total of 120 samples to be
run.
Thanks.

Ruth L. Cheung
Staff Environmental Scientist
Ninyo & Moore
(949) 753-7070 x2273

569-102-0.9	570-101-0	571-101-0.9
569-112-0	570-101-0.6	571-104-0
569-201-0	570-201-0	571-201-0.6
569-206-0.6	570-205-0.9	571-108-1.5
569-106-1.5	570-106-0.3	571-111-0.3
569-212-0	570-208-1.5	571-207-0
569-401-0.6	570-111-0.6	571-210-0.6
569-301-0	570-214-0	571-115-0.9
569-303-0.9	570-115-0.3	571-214-0.3
569-404-0.6	570-119-0.9	571-120-0
569-408-0.9	570-224-0.6	571-217-1.5
569-314-0	570-401-0	571-220-0.6
569-313-0.3	570-401-0.3	571-301-0.3
569-502-0.6	570-304-1.5	571-405-0
569-602-1.5	570-307-0.9	571-306-0.9
569-607-0.3	570-311-0.6	571-407-0
569-607-0	570-312-0.6	571-310-0.9
569-508-0.9	570-316-0.3	571-315-0.3
569-511-0.6	570-601-0	571-412-1.5
569-612-1.5	570-505-1.5	571-317-0
569-516-0	570-508-0	571-320-0.6
569-801-0.3	570-610-0.6	571-416-0.9
569-519-0.6	570-511-0.9	571-325-0.3
569-803-0.9	570-615-0	571-421-1.5
569-705-0	570-514-0.3	571-425-0
569-806-1.5	570-517-0	571-501-0.6
569-708-0.3	570-618-0.6	571-503-0.9
569-711-0	570-621-1.5	571-603-0.3
569-811-0	570-703-0.9	571-507-0
	570-804-0	571-609-0
	570-706-0	571-510-1.5
	570-709-0	571-611-0
	570-808-0.6	571-514-0
	570-711-1.5	571-614-0.3
	570-812-0.3	571-517-0.9
		571-617-0.6
		571-520-1.5
		571-621-0.3
		571-524-0
		571-624-0.9
		571-529-0.3
		571-628-0.6
		571-703-1.5
		571-707-0
		571-804-0.9
		571-809-0.3
		571-711-0
		571-712-0
		571-814-0.3
		571-818-0.6
		571-819-0
		571-827-1.5

571-832-0.9
571-836-0.3
571-837-0.6
571-842-0

Rachelle

From: Ruth Cheung [rcheung@ninyoandmoore.com]
Sent: Thursday, August 08, 2002 9:14 AM
To: 'Rachelle'
Subject: TCLP Analysis

TCLP-3.xls

In addition to the 90 TCLP already run please run the following samples for
TCLP. There should be a list of 350 samples.
Thanks for a the hard work and timely results.

Ruth L. Cheung
Staff Environmental Scientist
Ninyo & Moore
(949) 753-7070 x2273

-----Original Message-----
From: Rachelle [SMTP:Rachelle@ATLGlobal.com]
Sent: Wednesday, August 07, 2002 5:02 PM
To: 'David Shaler (E-mail)'
Cc: 'Ruth Cheung (E-mail)'
Subject: TCLP Results

<<57931TCLP.xls>> <<58001TCLP.xls>> <<58021TCLP.xls>> <<58022TCLP.xls>>
<<58023TCLP.xls>> <<58024TCLP.xls>> <<58049TCLP.xls>> <<58050TCLP.xls>>
<<58052TCLP.xls>> <<58053TCLP.xls>> <<58065TCLP.xls>> <<58066TCLP.xls>>
<<58067TCLP.xls>> <<58068TCLP.xls>> <<58069TCLP.xls>>

Rachelle Arada
Project Coordinator
www.atlglobal.com
voice: 562.989.4045 ext 237
fax : 562.989.4040

<< File: 57931TCLP.xls >> << File: 58001TCLP.xls >> << File: 58021TCLP.xls >> << File: 58022TCLP.xls >> << File: 58023TCLP.xls >> << File: 58024TCLP.xls >> << File: 58049TCLP.xls >> << File: 58050TCLP.xls >> << File: 58052TCLP.xls >> << File: 58053TCLP.xls >> << File: 58065TCLP.xls >> << File: 58066TCLP.xls >> << File: 58067TCLP.xls >> << File: 58068TCLP.xls >> << File: 58069TCLP.xls >>

569-404-0	2. STLC	170
569-402-0	2. STLC	130
569-406-0	2. STLC	120
569-515-0	2. STLC	110
569-611-0	2. STLC	100
569-409-0	2. STLC	94
569-603-0	2. STLC	93
569-104-0.6	2. STLC	91
569-807-0	2. STLC	86
569-608-0	2. STLC	86
569-501-0	2. STLC	84
569-710-0.3	2. STLC	83
569-808-0	2. STLC	83
569-609-0.6	2. STLC	80
569-803-0	2. STLC	79
569-105-0	2. STLC	78
569-512-0	2. STLC	77
569-513-0	2. STLC	77
569-302-0	2. STLC	74
569-805-0	2. STLC	73
569-517-0	2. STLC	71
569-704-0.3	2. STLC	71
569-703-0.6	2. STLC	70
569-514-0.3	2. STLC	70
569-803-0.3	2. STLC	69
569-409-0.6	2. STLC	69
569-411-0	2. STLC	68
569-102-0.6	2. STLC	68
569-809-0	2. STLC	65
569-605-0	2. STLC	65
569-711-0.6	2. STLC	62
569-806-0	2. STLC	60
569-802-0.3	2. STLC	60
569-410-0	2. STLC	59
569-501-0.6	2. STLC	59
569-808-0.3	2. STLC	58
569-104-0	2. STLC	56
569-804-0	2. STLC	54
569-610-0	2. STLC	54
569-608-0.3	2. STLC	53
569-213-0	2. STLC	49
569-701-0	2. STLC	47
569-311-0	2. STLC	47
569-609-0.9	2. STLC	46
569-513-0.3	2. STLC	45
569-801-0.6	2. STLC	44
569-514-0	2. STLC	42
569-805-0.6	2. STLC	42
569-408-1.5	2. STLC	42
569-807-0.3	2. STLC	40
569-204-0	2. STLC	40
569-517-0.3	2. STLC	36
569-518-0	2. STLC	36
569-806-0.3	2. STLC	36
569-705-1.5	2. STLC	35
569-303-0.6	2. STLC	34
569-516-0.3	2. STLC	33
569-705-0.6	2. STLC	33
569-802-0	2. STLC	33
569-515-0.6	2. STLC	32
569-704-0	2. STLC	32
569-401-0.3	2. STLC	32
569-207-0	2. STLC	32
569-608-0.6	2. STLC	31
569-104-0.3	2. STLC	31
569-201-0.6	2. STLC	30
569-515-0.3	2. STLC	28
569-212-0.6	2. STLC	28
569-103-0	2. STLC	28
569-313-0	2. STLC	27
569-103-0.3	2. STLC	26
569-705-0.9	2. STLC	25
569-707-0.3	2. STLC	25
569-515-1.5	2. STLC	24
569-508-0	2. STLC	24
569-801-0	2. STLC	24
569-402-0.6	2. STLC	24
569-516-0.6	2. STLC	22
569-509-0.3	2. STLC	22
569-106-0	2. STLC	22
569-106-0.3	2. STLC	22
569-202-0	2. STLC	21
569-805-1.5	2. STLC	21
569-205-0	2. STLC	20
569-707-0	2. STLC	19

570-515-0.3	2. STLC	120
570-811-0	2. STLC	110
570-114-0.0	2. STLC	110
570-504-0.6	2. STLC	100
570-811-1.5	2. STLC	90
570-615-0.6	2. STLC	84
570-305-0	2. STLC	79
570-314-0.6	2. STLC	76
570-505-0.6	2. STLC	75
570-208-0.6	2. STLC	74
570-116-0.0	2. STLC	73
570-102-0	2. STLC	65
570-804-0.6	2. STLC	64
570-704-0	2. STLC	63
570-508-0.6	2. STLC	60
570-706-0.3	2. STLC	60
570-303-0	2. STLC	58
570-311-1.5	2. STLC	58
570-117-0.0	2. STLC	58
570-208-0.3	2. STLC	58
570-709-0.6	2. STLC	57
570-703-0	2. STLC	55
570-206-0	2. STLC	54
570-301-0	2. STLC	53
570-603-0.3	2. STLC	46
570-711-0.6	2. STLC	46
570-206-0.3	2. STLC	45
570-103-0	2. STLC	44
570-602-0	2. STLC	41
570-209-0	2. STLC	40
570-210-0	2. STLC	40
570-117-0.3	2. STLC	39
570-103-0.6	2. STLC	37
570-110-0.6	2. STLC	37
570-805-0.9	2. STLC	36
570-112-1.5	2. STLC	35
570-614-0	2. STLC	34
570-713-0.3	2. STLC	33
570-513-0	2. STLC	32
570-312-0.3	2. STLC	31
570-503-0.6	2. STLC	31
570-510-0.6	2. STLC	31
570-202-0	2. STLC	31
570-207-0	2. STLC	31
570-209-0.3	2. STLC	31
570-703-0.3	2. STLC	30
570-401-0	2. STLC	30
570-610-0.9	2. STLC	29
570-809-0.6	2. STLC	29
570-509-0.9	2. STLC	29
570-210-0.6	2. STLC	29
570-211-0	2. STLC	29
570-603-0	2. STLC	28
570-119-0	2. STLC	28
570-713-0.6	2. STLC	28
570-108-0	2. STLC	27
570-708-0.6	2. STLC	27
570-224-0	2. STLC	26
570-601-0	2. STLC	26
570-710-0.6	2. STLC	26
570-614-0.6	2. STLC	26
570-118-0.3	2. STLC	26
570-304-0	2. STLC	25
570-707-0.6	2. STLC	25
570-510-0	2. STLC	25
570-110-0	2. STLC	24
570-223-0	2. STLC	24
570-117-0.6	2. STLC	24
570-616-0	2. STLC	23
570-704-0.3	2. STLC	22
570-513-0.6	2. STLC	22
570-221-0.0	2. STLC	22
570-617-0	2. STLC	21
570-214-0.3	2. STLC	21
570-122-0.9	2. STLC	20
570-313-0.6	2. STLC	19
570-207-0.6	2. STLC	19
570-120-0.9	2. STLC	18
570-506-0	2. STLC	18
570-102-0.9	2. STLC	17
570-216-0	2. STLC	17
570-225-0	2. STLC	17
570-304-0.3	2. STLC	17
570-409-0	2. STLC	17
570-713-0	2. STLC	17

571-521-0	2. STLC	230
571-324-0.9	2. STLC	110
571-818-0	2. STLC	110
571-819-0.6	2. STLC	110
571-708-0	2. STLC	110
571-103-0.6	2. STLC	110
571-617-0.3	2. STLC	100
571-611-0.6	2. STLC	92
571-712-0.9	2. STLC	81
571-105-0.6	2. STLC	81
571-313-0	2. STLC	79
571-508-0	2. STLC	73
571-518-0.3	2. STLC	73
571-217-0	2. STLC	68
571-516-0	2. STLC	66
571-701-0.3	2. STLC	66
571-710-0.6	2. STLC	65
571-512-0	2. STLC	64
571-308-0.9	2. STLC	61
571-701-0	2. STLC	61
571-514-0.3	2. STLC	59
571-415-0	2. STLC	58
571-616-0.6	2. STLC	57
571-517-0	2. STLC	56
571-112-0.9	2. STLC	56
571-214-0	2. STLC	55
571-415-0.3	2. STLC	55
571-405-0.6	2. STLC	55
571-530-0	2. STLC	55
571-831-0	2. STLC	53
571-709-0	2. STLC	53
571-103-0.0	2. STLC	52
571-312-0	2. STLC	51
571-526-0	2. STLC	51
571-819-1.5	2. STLC	51
571-515-0	2. STLC	50
571-833-0	2. STLC	49
571-815-0.6	2. STLC	47
571-517-0.3	2. STLC	46
571-610-0	2. STLC	46
571-413-0	2. STLC	46
571-815-0	2. STLC	45
571-514-0.9	2. STLC	44
571-505-1.5	2. STLC	44
571-528-0	2. STLC	44
571-610-0.6	2. STLC	43
571-629-0	2. STLC	43
571-604-0	2. STLC	42
571-213-0	2. STLC	41
571-812-0	2. STLC	41
571-706-0	2. STLC	41
571-530-0.6	2. STLC	41
571-305-0	2. STLC	40
571-523-0.3	2. STLC	39
571-510-0	2. STLC	39
571-305-0.9	2. STLC	39
571-818-1.5	2. STLC	39
571-703-0	2. STLC	38
571-520-0.3	2. STLC	36
571-216-0	2. STLC	34
571-827-0	2. STLC	34
571-708-0.3	2. STLC	34
571-514-0.6	2. STLC	33
571-528-1.5	2. STLC	33
571-803-0	2. STLC	33
571-414-0.3	2. STLC	33
571-813-0.3	2. STLC	32
571-523-0	2. STLC	31
571-326-0	2. STLC	31
571-502-0.6	2. STLC	31
571-624-1.5	2. STLC	31
571-330-0	2. STLC	31
571-512-0.3	2. STLC	30
571-521-0.6	2. STLC	29
571-706-0.3	2. STLC	29
571-814-0.6	2. STLC	28
571-616-1.5	2. STLC	28
571-835-0	2. STLC	28
571-811-0.3	2. STLC	28
571-101-0.6	2. STLC	28
571-112-0	2. STLC	28
571-315-0	2. STLC	27
571-622-0	2. STLC	27
571-607-0.6	2. STLC	27
571-609-0.6	2. STLC	27

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569-202-0.3	2. STLC	19
569-602-0	2. STLC	19
569-207-0.3	2. STLC	19
569-706-0.3	2. STLC	17
569-807-0.9	2. STLC	17
569-104-0.9	2. STLC	17
569-505-0.6	2. STLC	17
569-704-0.6	2. STLC	16
569-808-0.6	2. STLC	16
569-212-0.3	2. STLC	16
569-612-0	2. STLC	16
569-704-1.5	2. STLC	15
569-411-0.3	2. STLC	15
569-113-0	2. STLC	15
569-807-0.6	2. STLC	14
569-311-0.3	2. STLC	12
569-312-0	2. STLC	10
569-311-0.9	2. STLC	8.3

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570-401-0.3	2. STLC	17
570-616-0.6	2. STLC	17
570-308-0	2. STLC	16
570-807-0.9	2. STLC	16
570-701-0.6	2. STLC	16
570-617-0.3	2. STLC	16
570-107-0.6	2. STLC	15
570-811-0.6	2. STLC	15
570-707-0	2. STLC	15
570-518-0	2. STLC	15
570-111-0.0	2. STLC	15
570-109-0.6	2. STLC	14
570-401-0.9	2. STLC	4.1
570-408-0	2. STLC	4
570-409-0.3	2. STLC	3
570-401-0.6		0
570-401-1.5		0
570-408-0.6		0
570-408-1.5		0

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571-837-0.3	2. STLC	27
571-520-0	2. STLC	26
571-516-0.3	2. STLC	26
571-420-0	2. STLC	26
571-102-0.6	2. STLC	26
571-517-1.5	2. STLC	25
571-513-0.6	2. STLC	25
571-623-0.6	2. STLC	25
571-112-0.3	2. STLC	25
571-326-0.6	2. STLC	24
571-619-0.3	2. STLC	24
571-619-0.9	2. STLC	24
571-528-0.3	2. STLC	24
571-706-0.6	2. STLC	24
571-112-0.6	2. STLC	24
571-327-0.6	2. STLC	23
571-817-0	2. STLC	23
571-425-0.6	2. STLC	22
571-118-0	2. STLC	22
571-829-0	2. STLC	22
571-828-0	2. STLC	22
571-122-0	2. STLC	21
571-101-1.5	2. STLC	21
571-530-0.3	2. STLC	21
571-406-0.6	2. STLC	20
571-517-0.6	2. STLC	20
571-835-0.3	2. STLC	20
571-501-0	2. STLC	20
571-518-0.9	2. STLC	19
571-510-0.3	2. STLC	19
571-814-0.9	2. STLC	19
571-522-0.6	2. STLC	19
571-622-1.5	2. STLC	19
571-812-0.6	2. STLC	19
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571-704-0	2. STLC	19
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571-212-0	2. STLC	18
571-839-0.6	2. STLC	18
571-610-1.5	2. STLC	18
571-709-0.3	2. STLC	18
571-311-0.6	2. STLC	17
571-620-0	2. STLC	17
571-109-0	2. STLC	17
571-704-0.3	2. STLC	17
571-207-1.5	2. STLC	16
571-203-0	2. STLC	16
571-616-0.3	2. STLC	16
571-317-0.3	2. STLC	16
571-629-0.3	2. STLC	16
571-416-0	2. STLC	15
571-419-0	2. STLC	15
571-526-0.3	2. STLC	15
571-619-0	2. STLC	15
571-606-0	2. STLC	15
571-115-0.6	2. STLC	14
571-202-0.9	2. STLC	11

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tblTEMP

WorkOrder	ClientSamplID	TestNo	Analyte	PQL	DF	CollectionDate	AnalDate	PrepDate
057975	570-507-0	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-507-0	WET DI/ EPA 7420	Lead	0.2	1	7/17/2002	8/7/2002	8/1/2002
057975	570-507-0	WET/ EPA 7420	Lead	0.2	1	7/17/2002	7/31/2002	7/26/2002
057975	570-507-0.3	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-507-0.6	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-507-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/17/2002	8/7/2002	8/1/2002
057975	570-507-0.6	WET/ EPA 7420	Lead	0.2	1	7/17/2002	7/31/2002	7/26/2002
057975	570-507-0.9	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-507-1.5	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-507-1.5	EPA 9045C	pH	0.1	1	7/17/2002	7/23/2002	7/23/2002
057975	570-510-0	EPA 1311/ 7420	Lead	0.2	1	7/17/2002	8/15/2002	8/14/2002
057975	570-510-0	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-510-0	WET DI/ EPA 7420	Lead	0.2	1	7/17/2002	8/7/2002	8/1/2002
057975	570-510-0	WET/ EPA 7420	Lead	0.8	4	7/17/2002	7/31/2002	7/26/2002
057975	570-510-0.3	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-510-0.6	EPA 1311/ 7420	Lead	0.2	1	7/17/2002	8/15/2002	8/14/2002
057975	570-510-0.6	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-510-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/17/2002	8/7/2002	8/1/2002
057975	570-510-0.6	WET/ EPA 7420	Lead	0.8	4	7/17/2002	7/31/2002	7/26/2002
057975	570-510-0.9	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-510-1.5	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-511-0	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-511-0.3	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-511-0.6	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-511-0.9	EPA 6010B	Antimony	2.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-511-0.9	EPA 6010B	Arsenic	2.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-511-0.9	EPA 6010B	Barium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-511-0.9	EPA 6010B	Beryllium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-511-0.9	EPA 6010B	Cadmium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-511-0.9	EPA 6010B	Chromium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-511-0.9	EPA 6010B	Cobalt	1.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-511-0.9	EPA 6010B	Copper	1.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-511-0.9	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-511-0.9	EPA 6010B	Molybdenum	2.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-511-0.9	EPA 6010B	Nickel	1.5	10	7/17/2002	8/10/2002	8/8/2002

057975	570-511-0.9	EPA 6010B	Selenium	2.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-511-0.9	EPA 6010B	Silver	1.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-511-0.9	EPA 6010B	Thallium	2.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-511-0.9	EPA 6010B	Vanadium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-511-0.9	EPA 6010B	Zinc	5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-511-0.9	EPA 7471A	Mercury	0.1	1	7/17/2002	8/9/2002	8/7/2002
057975	570-511-1.5	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-511-1.5	EPA 9045C	pH	0.1	1	7/17/2002	7/23/2002	7/23/2002
057975	570-512-0	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-512-0	WET DI/ EPA 7420	Lead	0.2	1	7/17/2002	8/7/2002	8/1/2002
057975	570-512-0	WET/ EPA 7420	Lead	0.2	1	7/17/2002	7/31/2002	7/26/2002
057975	570-512-0.3	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-512-0.6	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-512-0.6	WET/ EPA 7420	Lead	0.2	1	7/17/2002	7/31/2002	7/26/2002
057975	570-512-0.9	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-512-1.5	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-513-0	EPA 1311/ 7420	Lead	0.2	1	7/17/2002	8/15/2002	8/14/2002
057975	570-513-0	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-513-0	WET DI/ EPA 7420	Lead	0.2	1	7/17/2002	8/7/2002	8/1/2002
057975	570-513-0	WET/ EPA 7420	Lead	0.8	4	7/17/2002	7/31/2002	7/26/2002
057975	570-513-0.3	EPA 6010B	Lead	5	1	7/17/2002	8/14/2002	8/13/2002
057975	570-513-0.3	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-513-0.3	WET DI/ EPA 7420	Lead	0.2	1	7/17/2002	8/7/2002	8/1/2002
057975	570-513-0.3	WET/ EPA 7420	Lead	0.4	2	7/17/2002	7/31/2002	7/26/2002
057975	570-513-0.6	EPA 1311/ 7420	Lead	0.2	1	7/17/2002	8/15/2002	8/14/2002
057975	570-513-0.6	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-513-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/17/2002	8/7/2002	8/1/2002
057975	570-513-0.6	WET/ EPA 7420	Lead	0.8	4	7/17/2002	7/31/2002	7/26/2002
057975	570-513-0.9	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-513-1.5	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-513-1.5	EPA 9045C	pH	0.1	1	7/17/2002	7/23/2002	7/23/2002
057975	570-514-0	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-514-0.3	EPA 6010B	Antimony	2.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-514-0.3	EPA 6010B	Arsenic	2.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-514-0.3	EPA 6010B	Barium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-514-0.3	EPA 6010B	Beryllium	1.5	10	7/17/2002	8/10/2002	8/8/2002

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057975	570-514-0.3	EPA 6010B	Cadmium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-514-0.3	EPA 6010B	Chromium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-514-0.3	EPA 6010B	Cobalt	1.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-514-0.3	EPA 6010B	Copper	1.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-514-0.3	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-514-0.3	EPA 6010B	Molybdenum	2.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-514-0.3	EPA 6010B	Nickel	1.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-514-0.3	EPA 6010B	Selenium	2.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-514-0.3	EPA 6010B	Silver	1.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-514-0.3	EPA 6010B	Thallium	2.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-514-0.3	EPA 6010B	Vanadium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-514-0.3	EPA 6010B	Zinc	5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-514-0.3	EPA 7471A	Mercury	0.1	1	7/17/2002	8/9/2002	8/7/2002
057975	570-514-0.6	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-514-0.9	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-514-1.5	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-515-0	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-515-0	WET DI/ EPA 7420	Lead	0.2	1	7/17/2002	8/7/2002	8/1/2002
057975	570-515-0	WET/ EPA 7420	Lead	0.2	1	7/17/2002	7/31/2002	7/26/2002
057975	570-515-0.3	EPA 1311/ 7420	Lead	0.2	1	7/17/2002	8/15/2002	8/14/2002
057975	570-515-0.3	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-515-0.3	WET DI/ EPA 7420	Lead	0.2	1	7/17/2002	8/7/2002	8/1/2002
057975	570-515-0.3	WET/ EPA 7420	Lead	3.2	16	7/17/2002	7/31/2002	7/26/2002
057975	570-515-0.6	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-515-0.9	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-515-1.5	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-515-1.5	EPA 9045C	pH	0.1	1	7/17/2002	7/23/2002	7/23/2002
057975	570-516-0	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-516-0	EPA 9045C	pH	0.1	1	7/17/2002	7/23/2002	7/23/2002
057975	570-516-0.3	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-516-0.6	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-516-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/17/2002	8/7/2002	8/1/2002
057975	570-516-0.6	WET/ EPA 7420	Lead	0.2	1	7/17/2002	7/29/2002	7/26/2002
057975	570-516-0.9	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-516-1.5	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-517-0	EPA 1311/ 7420	Lead	0.2	1	7/17/2002	8/6/2002	8/5/2002

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057975	570-517-0	EPA 6010B	Antimony	2.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-517-0	EPA 6010B	Arsenic	2.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-517-0	EPA 6010B	Barium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-517-0	EPA 6010B	Beryllium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-517-0	EPA 6010B	Cadmium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-517-0	EPA 6010B	Chromium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-517-0	EPA 6010B	Cobalt	1.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-517-0	EPA 6010B	Copper	1.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-517-0	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-517-0	EPA 6010B	Molybdenum	2.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-517-0	EPA 6010B	Nickel	1.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-517-0	EPA 6010B	Selenium	2.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-517-0	EPA 6010B	Silver	1.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-517-0	EPA 6010B	Thallium	2.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-517-0	EPA 6010B	Vanadium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-517-0	EPA 6010B	Zinc	5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-517-0	EPA 7471A	Mercury	0.1	1	7/17/2002	8/9/2002	8/7/2002
057975	570-517-0.3	EPA 1311/ 7420	Lead	0.2	1	7/17/2002	8/6/2002	8/5/2002
057975	570-517-0.3	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-517-0.6	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-517-0.6	WET/ EPA 7420	Lead	0.2	1	7/17/2002	7/29/2002	7/26/2002
057975	570-517-0.9	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-517-1.5	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-518-0.0	EPA 1311/ 7420	Lead	0.2	1	7/17/2002	8/15/2002	8/14/2002
057975	570-518-0.0	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-518-0.0	EPA 9045C	pH	0.1	1	7/17/2002	7/23/2002	7/23/2002
057975	570-518-0.0	WET DI/ EPA 7420	Lead	0.2	1	7/17/2002	8/7/2002	8/1/2002
057975	570-518-0.0	WET/ EPA 7420	Lead	0.4	2	7/17/2002	7/29/2002	7/26/2002
057975	570-518-0.3	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-518-0.6	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-518-0.9	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-518-1.5	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057975	570-803-0	EPA 6010B	Lead	5	1	7/17/2002	7/22/2002	7/19/2002
057975	570-803-0	WET/ EPA 7420	Lead	0.2	1	7/17/2002	7/31/2002	7/26/2002
057975	570-803-0.3	EPA 6010B	Lead	5	1	7/17/2002	7/22/2002	7/19/2002
057975	570-803-0.3	WET/ EPA 7420	Lead	0.2	1	7/17/2002	7/31/2002	7/26/2002

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057975	570-803-0.6	EPA 6010B	Lead	5	1	7/17/2002	7/22/2002	7/19/2002
057975	570-803-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/17/2002	8/7/2002	8/1/2002
057975	570-803-0.6	WET/ EPA 7420	Lead	0.2	1	7/17/2002	7/31/2002	7/26/2002
057975	570-803-0.9	EPA 6010B	Lead	5	1	7/17/2002	7/22/2002	7/19/2002
057975	570-803-1.5	EPA 6010B	Lead	5	1	7/17/2002	7/22/2002	7/19/2002
057975	570-804-0	EPA 1311/ 7420	Lead	0.2	1	7/17/2002	8/6/2002	8/5/2002
057975	570-804-0	EPA 6010B	Antimony	2.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-804-0	EPA 6010B	Arsenic	2.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-804-0	EPA 6010B	Barium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-804-0	EPA 6010B	Beryllium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-804-0	EPA 6010B	Cadmium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-804-0	EPA 6010B	Chromium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-804-0	EPA 6010B	Cobalt	1.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-804-0	EPA 6010B	Copper	1.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-804-0	EPA 6010B	Lead	5	1	7/17/2002	7/22/2002	7/19/2002
057975	570-804-0	EPA 6010B	Molybdenum	2.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-804-0	EPA 6010B	Nickel	1.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-804-0	EPA 6010B	Selenium	2.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-804-0	EPA 6010B	Silver	1.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-804-0	EPA 6010B	Thallium	2.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-804-0	EPA 6010B	Vanadium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-804-0	EPA 6010B	Zinc	5	10	7/17/2002	8/10/2002	8/8/2002
057975	570-804-0	EPA 7471A	Mercury	0.1	1	7/17/2002	8/9/2002	8/7/2002
057975	570-804-0.3	EPA 6010B	Lead	5	1	7/17/2002	7/22/2002	7/19/2002
057975	570-804-0.6	EPA 1311/ 7420	Lead	0.2	1	7/17/2002	8/15/2002	8/14/2002
057975	570-804-0.6	EPA 6010B	Lead	5	1	7/17/2002	7/22/2002	7/19/2002
057975	570-804-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/17/2002	8/7/2002	8/1/2002
057975	570-804-0.6	WET/ EPA 7420	Lead	1.6	8	7/17/2002	7/31/2002	7/26/2002
057975	570-804-0.9	EPA 6010B	Lead	5	1	7/17/2002	7/22/2002	7/19/2002
057975	EB-14	EPA 6010B	Lead	0.005	1	7/17/2002	7/23/2002	7/22/2002

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

September 13, 2002

David Shaler
Ninyo & Moore
475 Goddard Suite 200
Irvine, CA 92618
TEL: (949) 753-7070
FAX: (949) 753-7071

ELAP No.: 1838
NELAP No.: 02107CA
Workorder No.: 057975

RE: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

Attention: David Shaler

Enclosed are the results for sample(s) received on July 17, 2002 by Advanced Technology Laboratories and tested for the parameters indicated in the enclosed chain of custody.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

This cover letter and a case narrative are an integral part of this analytical report.

CLIENT: Ninyo & Moore
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Lab Order: 057975

CASE NARRATIVE

Enclosed is the result for the additional analysis requested on 09/09/02.

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *13-Sep-02*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	570-803-0.3
Lab Order:	057975		
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Collection Date:**	7/17/2002 11:45:00 AM
Lab ID:	057975-053A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
LEAD BY ATOMIC ABSORPTION DI WATER (WET)				**WET DI/ EPA 7420**		
RunID: AA2_020913A QC Batch: 10636						Analyst: **JT**
Lead	2.5	0.20		mg/L	1	9/13/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *13-Sep-02*

CLIENT: Ninyo & Moore
Work Order: 057975
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI

Sample ID: **MB-10031** SampType: **mblk** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/7/2002** Run ID: **AA2_020807A**
Client ID: **ZZZZZ** Batch ID: **10031** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/7/2002** SeqNo: **314787**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-10031A** SampType: **mblk** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/1/2002** Run ID: **AA2_020807A**
Client ID: **ZZZZZ** Batch ID: **10031** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/7/2002** SeqNo: **314788**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-10031B** SampType: **mblk** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/1/2002** Run ID: **AA2_020807A**
Client ID: **ZZZZZ** Batch ID: **10031** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/7/2002** SeqNo: **314801**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-10636** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **9/13/2002** Run ID: **AA2_020913A**
Client ID: **ZZZZZ** Batch ID: **10636** TestNo: **WET DI/ EPA (WET)** Analysis Date: **9/13/2002** SeqNo: **327358**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-10636A** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **9/10/2002** Run ID: **AA2_020913A**
Client ID: **ZZZZZ** Batch ID: **10636** TestNo: **WET DI/ EPA (WET)** Analysis Date: **9/13/2002** SeqNo: **327359**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO- Surrogate dilute out
H - Sample exceeded holding time

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Ninyo & Moore
Work Order: 057975
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI

Sample ID: **LCS-10031** SampType: **lcs** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/7/2002** Run ID: **AA2_020807A**
Client ID: **ZZZZZ** Batch ID: **10031** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/7/2002** SeqNo: **314815**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.355	0.20	7.5	0	98.1	80	120	0	0		

Sample ID: **LCS-10636** SampType: **LCS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **9/13/2002** Run ID: **AA2_020913A**
Client ID: **ZZZZZ** Batch ID: **10636** TestNo: **WET DI/ EPA (WET)** Analysis Date: **9/13/2002** SeqNo: **327367**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.246	0.20	5	0	105	80	120	0	0		

Sample ID: **057975-044AMS** SampType: **MS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/7/2002** Run ID: **AA2_020807A**
Client ID: **570-510-0.6** Batch ID: **10031** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/7/2002** SeqNo: **314800**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.077	0.20	5	0	102	80	120	0	0		

Sample ID: **057976-031AMS** SampType: **MS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/7/2002** Run ID: **AA2_020807A**
Client ID: **ZZZZZ** Batch ID: **10031** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/7/2002** SeqNo: **314813**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.894	0.20	5	0	97.9	80	120	0	0		

Sample ID: **058000-008AMS** SampType: **MS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **9/13/2002** Run ID: **AA2_020913A**
Client ID: **ZZZZZ** Batch ID: **10636** TestNo: **WET DI/ EPA (WET)** Analysis Date: **9/13/2002** SeqNo: **327366**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.344	0.20	5	1.13	84.3	80	120	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO- Surrogate dilute out
H - Sample exceeded holding time

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Ninyo & Moore
Work Order: 057975
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI

Sample ID: **058000-008AMSD** SampType: **MSD** TestCode: **7420_DI** Units: **mg/L** Prep Date: **9/13/2002** Run ID: **AA2_020913A**
Client ID: **ZZZZZ** Batch ID: **10636** TestNo: **WET DI/ EPA (WET)** Analysis Date: **9/13/2002** SeqNo: **327365**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.498	0.20	5	1.13	87.4	80	120	5.344	2.83	20	

Sample ID: **057975-044ADUP** SampType: **DUP** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/1/2002** Run ID: **AA2_020807A**
Client ID: **570-510-0.6** Batch ID: **10031** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/7/2002** SeqNo: **314799**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20	0	0	0	0	0	0	0	30	

Sample ID: **057976-031ADUP** SampType: **DUP** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/1/2002** Run ID: **AA2_020807A**
Client ID: **ZZZZZ** Batch ID: **10031** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/7/2002** SeqNo: **314812**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20	0	0	0	0	0	0	0	30	

Sample ID: **058000-008ADUP** SampType: **DUP** TestCode: **7420_DI** Units: **mg/L** Prep Date: **9/10/2002** Run ID: **AA2_020913A**
Client ID: **ZZZZZ** Batch ID: **10636** TestNo: **WET DI/ EPA (WET)** Analysis Date: **9/13/2002** SeqNo: **327364**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.6968	0.20	0	0	0	0	0	1.13	47.4	30	R

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO- Surrogate dilute out
H - Sample exceeded holding time

Rachelle

From: Steve Reese [sreese@ninyoandmoore.com]
Sent: Monday, September 09, 2002 1:42 PM
To: Rachelle@Advanced Labs (E-mail)
Cc: David Shaler (E-mail)
Subject: Request for Additional Analyses: CALTRANS I-10 Freeway Project

Rachelle,
RE: CALTRANS I-10 Freeway Project (N&M #203939001)
We want to request additional analyses run on 4 samples with STLC= 5.0 mg/L, we want all 4 analyzed for DI-WET method.
The samples are:

ATL COC#	N&M Sample ID
57975	570-803-0.3
57974	571-201-0.3
57996	571-411-0
58000	571-527-0.3

Please contact myself or David Shaler with any questions or comments.
Thank you, Steve

August 15, 2002

David Shaler
Ninyo & Moore
475 Goddard Suite 200
Irvine, CA 92618
TEL: (949) 753-7070
FAX: (949) 753-7071

ELAP No.: 1838
NELAP No.: 02107CA
Workorder No.: 057977

RE: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

Attention: David Shaler

Enclosed are the results for sample(s) received on July 17, 2002 by Advanced Technology Laboratories and tested for the parameters indicated in the enclosed chain of custody.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

RECEIVED
AUG 2 6 2002
NINYO & MOORE
ORANGE COUNTY OFFICE

This cover letter is an integral part of this analytical report.

Laboratory	Site	Consultant
Advanced Technology Laboratories 3275 Walnut Avenue, Signal Hill, CA 90807 Tel. (562) 989-4045 Fax (562) 989-6348	Caltrans/I-10 (605-57)/Lead Survey TO 07-117070-PX Project # 203939001	Ninyo & Moore - David Shaler/Steve Reese 475 Goddard, Suite 200, Irvine, CA 92618 Tel. (949) 753-7070 Fax (949) 753-7071

Special Instructions
See Project specifications. 5 Day TAT.

Relinquished by: (name/date/time) [signature] 7-17-02	Received by: (name/date/time) [signature] 7/17/02
Relinquished by: (name/date/time) [signature] 7/17/02 1725	Received by: (name/date/time) [signature] 7/17/02 17:25

Lab No	Sample I.D	Date	Time	Sample container P=plastic B=brass	Analyses: Total Lead EPA Method 6010	Analyses: pH EPA Method 9045
	EB-15	7/17/02	~~12:05~~ 16:00	P	X	
	570-804-1.5	↓	12:05	↓	X	X
	570-805-0		12:12		X	
	570-805-0.3		12:14		X	
	570-805-0.6		12:15		X	
	570-805-0.9		12:18		X	
	570-807-0		12:57		X	
	570-807-0.3		12:58		X	
	570-807-0.6		13:00		X	
	570-807-0.9		13:02		X	
	570-808-0		13:18		X	
	570-808-0.3		13:20		X	X
	570-808-0.6		13:22		X	
	570-808-0.9		13:24		X	
	570-809-0		13:35		X	
	570-809-0.3		13:38		X	
	570-809-0.6		13:39		X	
	570-809-0.9		13:41		X	
	570-810-0		13:46		X	
	570-810-0.3		13:48		X	
	570-810-0.6		13:50		X	
	570-810-0.9		13:51		X	
	570-810-1.5		13:53		X	X
	570-811-0		13:59		X	
	570-811-0.3		14:02		X	
	570-811-0.6		14:04		X	
	570-811-0.9		14:05		X	
	570-811-1.5	↓	14:08	↓	X	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	
	~~571-~~				~~X~~	

Total # of samples: 28

Advanced Technology Laboratories

Date: *24-Jul-02*

CLIENT: Ninyo & Moore
Lab Order: 057977
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Lab ID: 057977-001A

Client Sample ID: EB-15
Collection Date: 7/17/2002 4:00:00 PM
Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
LEAD BY ICP	**(EPA 3010A)**			**EPA 6010B**		
RunID: ICP2_020723B	QC Batch: 9745					Analyst: **RQ**
Lead	ND	0.0050		mg/L	1	7/23/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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Date: 7/24/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057977
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/17/2002 5:25:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057977-002A	570-804-1.5	11	mg/Kg	9690	5	1	7/17/2002	7/23/2002
057977-003A	570-805-0	24	mg/Kg	9690	5	1	7/17/2002	7/23/2002
057977-004A	570-805-0.3	150	mg/Kg	9690	5	1	7/17/2002	7/23/2002
057977-005A	570-805-0.6	54	mg/Kg	9690	5	1	7/17/2002	7/23/2002
057977-006A	570-805-0.9	210	mg/Kg	9690	5	1	7/17/2002	7/23/2002
057977-007A	570-807-0	83	mg/Kg	9690	5	1	7/17/2002	7/23/2002
057977-008A	570-807-0.3	9.2	mg/Kg	9690	5	1	7/17/2002	7/23/2002
057977-009A	570-807-0.6	22	mg/Kg	9690	5	1	7/17/2002	7/23/2002
057977-010A	570-807-0.9	280	mg/Kg	9690	5	1	7/17/2002	7/23/2002
057977-011A	570-808-0	83	mg/Kg	9690	5	1	7/17/2002	7/23/2002
057977-012A	570-808-0.3	52	mg/Kg	9690	5	1	7/17/2002	7/23/2002

Qualifiers:

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DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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Date: 7/24/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057977
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/17/2002 5:25:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057977-013A	570-808-0.6	1400	mg/Kg	9690	5	1	7/17/2002	7/23/2002
057977-014A	570-808-0.9	35	mg/Kg	9691	5	1	7/17/2002	7/23/2002
057977-015A	570-809-0	7.9	mg/Kg	9691	5	1	7/17/2002	7/23/2002
057977-016A	570-809-0.3	29	mg/Kg	9691	5	1	7/17/2002	7/23/2002
057977-017A	570-809-0.6	75	mg/Kg	9691	5	1	7/17/2002	7/23/2002
057977-018A	570-809-0.9	19	mg/Kg	9691	5	1	7/17/2002	7/23/2002
057977-019A	570-810-0	190	mg/Kg	9691	5	1	7/17/2002	7/23/2002
057977-020A	570-810-0.3	78	mg/Kg	9691	5	1	7/17/2002	7/23/2002
057977-021A	570-810-0.6	44	mg/Kg	9691	5	1	7/17/2002	7/23/2002
057977-022A	570-810-0.9	8.4	mg/Kg	9691	5	1	7/17/2002	7/23/2002
057977-023A	570-810-1.5	5.5	mg/Kg	9691	5	1	7/17/2002	7/23/2002

Qualifiers:

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DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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Date: 7/24/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057977
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/17/2002 5:25:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057977-024A	570-811-0	110	mg/Kg	9691	5	1	7/17/2002	7/23/2002
057977-025A	570-811-0.3	290	mg/Kg	9691	5	1	7/17/2002	7/23/2002
057977-026A	570-811-0.6	670	mg/Kg	9691	5	1	7/17/2002	7/23/2002
057977-027A	570-811-0.9	40	mg/Kg	9691	5	1	7/17/2002	7/23/2002
057977-028A	570-811-1.5	150	mg/Kg	9691	5	1	7/17/2002	7/23/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: 7/24/2002

pH
EPA 9045C

CLIENT:	Ninyo & Moore	**Lab Order:**	057977
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/17/2002 5:25:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057977-002A	570-804-1.5	7.92	pH Units	R19675	0.1	1	7/17/2002	7/23/2002
057977-012A	570-808-0.3	8.75	pH Units	R19675	0.1	1	7/17/2002	7/23/2002
057977-023A	570-810-1.5	7.44	pH Units	R19675	0.1	1	7/17/2002	7/23/2002

Qualifiers:

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J - Analyte detected below quantitation limits
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DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: 7/31/2002

LEAD BY ATOMIC ABSORPTION WET/ EPA 7420

CLIENT: Ninyo & Moore
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Project No:
PO No:

Lab Order: 057977
Date Received: 7/17/2002 5:25:0
Matrix: Soil
Analyst: NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057977-004A	570-805-0.3	14	mg/L	9899	0.4	2	7/17/2002	7/30/2002
057977-005A	570-805-0.6	8.1	mg/L	9899	0.2	1	7/17/2002	7/30/2002
057977-006A	570-805-0.9	36	mg/L	9899	0.8	4	7/17/2002	7/30/2002
057977-007A	570-807-0	4.3	mg/L	9899	0.2	1	7/17/2002	7/30/2002
057977-010A	570-807-0.9	16	mg/L	9899	0.4	2	7/17/2002	7/30/2002
057977-011A	570-808-0	5.7	mg/L	9899	0.2	1	7/17/2002	7/30/2002
057977-012A	570-808-0.3	1.4	mg/L	9899	0.2	1	7/17/2002	7/30/2002
057977-017A	570-809-0.6	29	mg/L	9899	0.8	4	7/17/2002	7/30/2002
057977-019A	570-810-0	7.4	mg/L	9899	0.2	1	7/17/2002	7/30/2002
057977-020A	570-810-0.3	4.9	mg/L	9899	0.2	1	7/17/2002	7/30/2002
057977-024A	570-811-0	110	mg/L	9899	4	20	7/17/2002	7/30/2002

Qualifiers:
ND - Not Detected at the Reporting Limit
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DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: 7/31/2002

LEAD BY ATOMIC ABSORPTION
WET/ EPA 7420

CLIENT:	Ninyo & Moore	**Lab Order:**	057977
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/17/2002 5:25:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057977-025A	570-811-0.3	7.0	mg/L	9899	0.2	1	7/17/2002	7/30/2002
057977-026A	570-811-0.6	15	mg/L	9899	0.4	2	7/17/2002	7/30/2002
057977-028A	570-811-1.5	90	mg/L	9899	2	10	7/17/2002	7/30/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: 8/5/2002

LEAD BY ATOMIC ABSORPTION
WET DI/ EPA 7420

CLIENT: Ninyo & Moore
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Project No:
PO No:

Lab Order: 057977
Date Received: 7/17/2002 5:25:0
Matrix: Soil
Analyst: NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057977-004A	570-805-0.3	ND	mg/L	9986	0.2	1	7/17/2002	8/2/2002
057977-005A	570-805-0.6	ND	mg/L	9986	0.2	1	7/17/2002	8/2/2002
057977-006A	570-805-0.9	ND	mg/L	9986	0.2	1	7/17/2002	8/2/2002
057977-010A	570-807-0.9	ND	mg/L	9986	0.2	1	7/17/2002	8/2/2002
057977-011A	570-808-0	0.93	mg/L	9986	0.2	1	7/17/2002	8/2/2002
057977-017A	570-809-0.6	ND	mg/L	9986	0.2	1	7/17/2002	8/2/2002
057977-019A	570-810-0	ND	mg/L	9986	0.2	1	7/17/2002	8/2/2002
057977-024A	570-811-0	ND	mg/L	9986	0.2	1	7/17/2002	8/2/2002
057977-025A	570-811-0.3	ND	mg/L	9986	0.2	1	7/17/2002	8/2/2002
057977-026A	570-811-0.6	0.20	mg/L	9986	0.2	1	7/17/2002	8/2/2002
057977-028A	570-811-1.5	0.40	mg/L	9986	0.2	1	7/17/2002	8/2/2002

Qualifiers:
ND - Not Detected at the Reporting Limit
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S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Date: *13-Aug-02*

CLIENT: Ninyo & Moore
Lab Order: 057977
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Lab ID: 057977-013A

Client Sample ID: 570-808-0.6
Collection Date: 7/17/2002 1:22:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS						
	(EPA 3050A)			**EPA 6010B**		
RunID: ICP5_020810B	QC Batch: 10213					Analyst: **RQ**
Antimony	2.9	2.5		mg/Kg	10	8/10/2002
Arsenic	ND	2.5		mg/Kg	10	8/10/2002
Barium	150	1.5		mg/Kg	10	8/10/2002
Beryllium	ND	1.5		mg/Kg	10	8/10/2002
Cadmium	ND	1.5		mg/Kg	10	8/10/2002
Chromium	24	1.5		mg/Kg	10	8/10/2002
Cobalt	14	1.5		mg/Kg	10	8/10/2002
Copper	32	1.5		mg/Kg	10	8/10/2002
Molybdenum	ND	2.5		mg/Kg	10	8/10/2002
Nickel	21	1.5		mg/Kg	10	8/10/2002
Selenium	7.0	2.5		mg/Kg	10	8/10/2002
Silver	ND	1.5		mg/Kg	10	8/10/2002
Thallium	ND	2.5		mg/Kg	10	8/10/2002
Vanadium	56	1.5		mg/Kg	10	8/10/2002
Zinc	160	5.0		mg/Kg	10	8/10/2002
MERCURY BY COLD VAPOR TECHNIQUE						
	(EPA 7471)			**EPA 7471A**		
RunID: AA1_020809D	QC Batch: 10167					Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1	8/9/2002

Qualifiers:

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H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: 8/15/2002

LEAD BY ATOMIC ABSORPTION
EPA 1311/ 7420

CLIENT: Ninyo & Moore
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Project No:
PO No:

Lab Order: 057977
Date Received: 7/17/2002 5:25:0
Matrix: Soil
Analyst: NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057977-006A	570-805-0.9	0.46	mg/L	10355	0.2	1	7/17/2002	8/15/2002
057977-010A	570-807-0.9	0.43	mg/L	10355	0.2	1	7/17/2002	8/15/2002
057977-013A	570-808-0.6	3.2	mg/L	10087	0.2	1	7/17/2002	8/6/2002
057977-017A	570-809-0.6	ND	mg/L	10355	0.2	1	7/17/2002	8/15/2002
057977-024A	570-811-0	ND	mg/L	10355	0.2	1	7/17/2002	8/15/2002
057977-026A	570-811-0.6	0.51	mg/L	10355	0.2	1	7/17/2002	8/15/2002
057977-028A	570-811-1.5	1.4	mg/L	10355	0.2	1	7/17/2002	8/15/2002

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: *15-Aug-02*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	570-811-0
Lab Order:	057977		
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Collection Date:**	7/17/2002 1:59:00 PM
Lab ID:	057977-024A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
LEAD BY ICP						
	(EPA 3050M)			**EPA 6010B**		
RunID: ICP2_020814E	QC Batch: 10251					Analyst: **RQ**
Lead	560	5.0		mg/Kg	1	8/14/2002
Lead	110	5.0		mg/Kg	1	7/23/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: *15-Aug-02*

CLIENT: Ninyo & Moore
Work Order: 057977
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10087

Sample ID: **MB-10087** SampType: **mblk** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806H**
Client ID: **ZZZZZ** Batch ID: **10087** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314602**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-10078-TCLP** SampType: **mblk** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806H**
Client ID: **ZZZZZ** Batch ID: **10087** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314603**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-10087** SampType: **lcs** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806H**
Client ID: **ZZZZZ** Batch ID: **10087** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314617**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.184	0.20	1	0	118	80	120	0	0		

Sample ID: **057978-007AMS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806H**
Client ID: **ZZZZZ** Batch ID: **10087** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314615**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.241	0.20	2.717	0.09022	116	80	120	0	0		

Sample ID: **057978-007ADUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806H**
Client ID: **ZZZZZ** Batch ID: **10087** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314614**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20	0	0	0	0	0	0.09022	0	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

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CLIENT: Ninyo & Moore
Work Order: 057977
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10167

Sample ID: **MB-10167** SampType: **mblk** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809D**
Client ID: **ZZZZZ** Batch ID: **10167** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316751**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: **LCS-10167** SampType: **lcs** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809D**
Client ID: **ZZZZZ** Batch ID: **10167** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316750**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.232	0.10	2.08	0	107	80	120	0	0		

Sample ID: **057978-007AMS** SampType: **MS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809D**
Client ID: **ZZZZZ** Batch ID: **10167** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316748**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.9805	0.10	0.83	0.03622	114	62	146	0	0		

Sample ID: **057978-007AMSD** SampType: **MSD** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809D**
Client ID: **ZZZZZ** Batch ID: **10167** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316749**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.9802	0.10	0.83	0.03622	114	62	146	0.9805	0.0281	33	

Sample ID: **057978-007ADUP** SampType: **DUP** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809D**
Client ID: **ZZZZZ** Batch ID: **10167** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316747**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.03011	0.10	0	0	0	0	0	0.03622	0	30	J

Qualifiers:
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CLIENT: Ninyo & Moore
Work Order: 057977
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10213

Sample ID: **MB-10213** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP5_020810B**
Client ID: **ZZZZZ** Batch ID: **10213** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316634**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.1049	0.25									J
Arsenic	0.01134	0.25									J
Barium	ND	0.15									
Beryllium	0.001497	0.15									J
Cadmium	ND	0.15									
Chromium	ND	0.15									
Cobalt	0.008285	0.15									J
Copper	ND	0.15									
Molybdenum	0.03155	0.25									J
Nickel	0.02092	0.15									J
Selenium	ND	0.25									
Silver	0.04761	0.15									J
Thallium	0.1615	0.25									J
Vanadium	ND	0.15									
Zinc	0.2176	0.50									J

Sample ID: **LCS-10213** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP5_020810B**
Client ID: **ZZZZZ** Batch ID: **10213** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316633**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	47.62	0.25	50	0	95.2	80	120	0	0		
Arsenic	51.84	0.25	50	0	104	80	120	0	0		
Barium	48.27	0.15	50	0	96.5	80	120	0	0		
Beryllium	47.2	0.15	50	0	94.4	80	120	0	0		
Cadmium	48.14	0.15	50	0	96.3	80	120	0	0		
Chromium	47.49	0.15	50	0	95	80	120	0	0		
Cobalt	47.79	0.15	50	0	95.6	80	120	0	0		
Copper	46.09	0.15	50	0	92.2	80	120	0	0		
Molybdenum	49.16	0.25	50	0	98.3	80	120	0	0		
Nickel	46.3	0.15	50	0	92.6	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

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Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10213

Sample ID: **LCS-10213** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP5_020810B**
Client ID: **ZZZZZ** Batch ID: **10213** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316633**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	51.76	0.25	50	0	104	80	120	0	0		
Silver	46.17	0.15	50	0	92.3	80	120	0	0		
Thallium	49.01	0.25	50	0	98	80	120	0	0		
Vanadium	48.51	0.15	50	0	97	80	120	0	0		
Zinc	52.5	0.50	50	0	105	80	120	0	0		

Sample ID: **057997-003AMS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP5_020810B**
Client ID: **ZZZZZ** Batch ID: **10213** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316630**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	79.9	2.5	125	2.788	61.7	32	115	0	0		
Arsenic	127.7	2.5	125	1.548	101	59	111	0	0		
Barium	257.1	1.5	125	117.9	111	34	151	0	0		
Beryllium	121.5	1.5	125	0	97.2	56	112	0	0		
Cadmium	127.6	1.5	125	0.3295	102	52	120	0	0		
Chromium	148.3	1.5	125	20.21	102	56	118	0	0		
Cobalt	143	1.5	125	15.43	102	58	117	0	0		
Copper	147.5	1.5	125	20.79	101	58	134	0	0		
Molybdenum	120.5	2.5	125	0.08681	96.4	56	115	0	0		
Nickel	142.3	1.5	125	16.95	100	52	120	0	0		
Selenium	140.4	2.5	125	5.02	108	46	108	0	0		S
Silver	114.4	1.5	125	0	91.5	74	117	0	0		
Thallium	114.6	2.5	125	0	91.7	62	117	0	0		
Vanadium	193.1	1.5	125	60.22	106	55	122	0	0		
Zinc	197.5	5.0	125	61.86	109	43	134	0	0		

Sample ID: **057997-003AMSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP5_020810B**
Client ID: **ZZZZZ** Batch ID: **10213** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316631**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike/Surrogate outside limits due to matrix interference; DO - Surrogate diluted out; J - Analyte detected below quantitation limits; B - Analyte detected in the associated Method Blank; H - Sample exceeded holding time; R - RPD outside accepted recovery limits

Calculations are based on raw values

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ANALYTICAL QC SUMMARY REPORT

BatchID: 10213

Sample ID: **057997-003AMSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP5_020810B**
Client ID: **ZZZZZ** Batch ID: **10213** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316631**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	80.18	2.5	125	2.788	61.9	32	115	79.9	0.348	20	
Arsenic	125.9	2.5	125	1.548	99.5	59	111	127.7	1.42	20	
Barium	244.9	1.5	125	117.9	102	34	151	257.1	4.87	20	
Beryllium	118.2	1.5	125	0	94.5	56	112	121.5	2.79	20	
Cadmium	127.4	1.5	125	0.3295	102	52	120	127.6	0.121	20	
Chromium	143.8	1.5	125	20.21	98.9	56	118	148.3	3.04	20	
Cobalt	142.2	1.5	125	15.43	101	58	117	143	0.570	20	
Copper	142.8	1.5	125	20.79	97.6	58	134	147.5	3.23	20	
Molybdenum	121.1	2.5	125	0.08681	96.8	56	115	120.5	0.434	20	
Nickel	140.8	1.5	125	16.95	99.1	52	120	142.3	1.04	20	
Selenium	134.4	2.5	125	5.02	104	46	108	140.4	4.35	20	
Silver	103.4	1.5	125	0	82.7	74	117	114.4	10.1	20	
Thallium	113.3	2.5	125	0	90.6	62	117	114.6	1.17	20	
Vanadium	184.2	1.5	125	60.22	99.2	55	122	193.1	4.72	20	
Zinc	192.3	5.0	125	61.86	104	43	134	197.5	2.66	20	

Sample ID: **057997-003ADUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP5_020810B**
Client ID: **ZZZZZ** Batch ID: **10213** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316629**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	2.811	2.5	0	0	0	0	0	2.788	0.832	30	
Arsenic	0.1834	2.5	0	0	0	0	0	1.548	0	30	J
Barium	126.8	1.5	0	0	0	0	0	117.9	7.31	30	
Beryllium	ND	1.5	0	0	0	0	0	0	0	30	
Cadmium	0.3828	1.5	0	0	0	0	0	0.3295	0	30	J
Chromium	21.21	1.5	0	0	0	0	0	20.21	4.85	30	
Cobalt	16.27	1.5	0	0	0	0	0	15.43	5.30	30	
Copper	22	1.5	0	0	0	0	0	20.79	5.65	30	
Molybdenum	ND	2.5	0	0	0	0	0	0.08681	0	30	
Nickel	18.08	1.5	0	0	0	0	0	16.95	6.49	30	

Qualifiers: ND - Not Detected at the Reporting Limit
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ANALYTICAL QC SUMMARY REPORT

BatchID: 10213

Sample ID: **057997-003ADUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP5_020810B**
Client ID: **ZZZZZ** Batch ID: **10213** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316629**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	0.8151	2.5	0	0	0	0	0	5.02	0	30	J
Silver	ND	1.5	0	0	0	0	0	0	0	30	
Thallium	ND	2.5	0	0	0	0	0	0	0	30	
Vanadium	62.37	1.5	0	0	0	0	0	60.22	3.51	30	
Zinc	66.48	5.0	0	0	0	0	0	61.86	7.21	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
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ANALYTICAL QC SUMMARY REPORT

BatchID: 10251

Sample ID: **MB-10251** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **8/13/2002** Run ID: **ICP2_020814E**
Client ID: **ZZZZZ** Batch ID: **10251** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **8/14/2002** SeqNo: **318640**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-10251** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **8/13/2002** Run ID: **ICP2_020814E**
Client ID: **ZZZZZ** Batch ID: **10251** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **8/14/2002** SeqNo: **318641**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	246	5.0	250	0	98.4	80	120	0	0		

Sample ID: **058066-007AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **8/13/2002** Run ID: **ICP2_020814E**
Client ID: **ZZZZZ** Batch ID: **10251** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **8/14/2002** SeqNo: **318650**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	262.5	5.0	250	379	-46.6	47	128	0	0		S

Sample ID: **058066-007ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **8/13/2002** Run ID: **ICP2_020814E**
Client ID: **ZZZZZ** Batch ID: **10251** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **8/14/2002** SeqNo: **318649**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	55.5	5.0	0	0	0	0	0	379	149	30	R

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ANALYTICAL QC SUMMARY REPORT

BatchID: 10355

Sample ID: MB-10355 | SampType: MBLK | TestCode: 7420_TC | Units: mg/L | Prep Date: 8/13/2002 | Run ID: AA2_020814T
Client ID: ZZZZZ | Batch ID: 10355 | TestNo: EPA 1311/ 74 (EPA 3010A) | Analysis Date: 8/15/2002 | SeqNo: 318984

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: MB-10269-TCLP | SampType: MBLK | TestCode: 7420_TC | Units: mg/L | Prep Date: 8/13/2002 | Run ID: AA2_020814T
Client ID: ZZZZZ | Batch ID: 10355 | TestNo: EPA 1311/ 74 (EPA 3010A) | Analysis Date: 8/15/2002 | SeqNo: 318985

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: LCS-10355 | SampType: LCS | TestCode: 7420_TC | Units: mg/L | Prep Date: 8/13/2002 | Run ID: AA2_020814T
Client ID: ZZZZZ | Batch ID: 10355 | TestNo: EPA 1311/ 74 (EPA 3010A) | Analysis Date: 8/15/2002 | SeqNo: 318999

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.09	0.20	1	0	109	80	120	0	0		

Sample ID: 057977-028AMS | SampType: MS | TestCode: 7420_TC | Units: mg/L | Prep Date: 8/13/2002 | Run ID: AA2_020814T
Client ID: 570-811-1.5 | Batch ID: 10355 | TestNo: EPA 1311/ 74 (EPA 3010A) | Analysis Date: 8/15/2002 | SeqNo: 318997

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.105	0.20	2.841	1.376	96.1	80	120	0	0		

Sample ID: 057977-028ADUP | SampType: DUP | TestCode: 7420_TC | Units: mg/L | Prep Date: 8/13/2002 | Run ID: AA2_020814T
Client ID: 570-811-1.5 | Batch ID: 10355 | TestNo: EPA 1311/ 74 (EPA 3010A) | Analysis Date: 8/15/2002 | SeqNo: 318996

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.775	0.20	0	0	0	0	0	1.376	25.3	30	

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ANALYTICAL QC SUMMARY REPORT

BatchID: 9690

Sample ID: **MB-9690A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723E**
Client ID: **ZZZZZ** Batch ID: **9690** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **304103**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **MB-9690B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723E**
Client ID: **ZZZZZ** Batch ID: **9690** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **304104**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-9690** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723E**
Client ID: **ZZZZZ** Batch ID: **9690** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **304102**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	231.9	5.0	250	0	92.8	80	120	0	0		

Sample ID: **057977-003AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723E**
Client ID: **570-805-0** Batch ID: **9690** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **304088**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	233.9	5.0	250	24.37	83.8	47	128	0	0		

Sample ID: **057977-013AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723E**
Client ID: **570-808-0.6** Batch ID: **9690** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **304100**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1409	5.0	250	1403	2.2	47	128	0	0		S

Qualifiers:
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Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

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3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Ninyo & Moore
Work Order: 057977
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 9690

Sample ID: **057977-003ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723E**
Client ID: **570-805-0** Batch ID: **9690** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **304087**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	19.84	5.0	0	0	0	0	0	24.37	20.5	30	

Sample ID: **057977-013ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723E**
Client ID: **570-808-0.6** Batch ID: **9690** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **304099**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1423	5.0	0	0	0	0	0	1403	1.40	30	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

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CLIENT: Ninyo & Moore
Work Order: 057977
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 9691

Sample ID: **MB-9691A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723F**
Client ID: **ZZZZZ** Batch ID: **9691** TestNo: **EPA 6010B (EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **304247**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **MB-9691B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723F**
Client ID: **ZZZZZ** Batch ID: **9691** TestNo: **EPA 6010B (EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **304248**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-9691** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723F**
Client ID: **ZZZZZ** Batch ID: **9691** TestNo: **EPA 6010B (EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **304246**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	229.7	5.0	250	0	91.9	80	120	0	0		

Sample ID: **057977-023AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723F**
Client ID: **570-810-1.5** Batch ID: **9691** TestNo: **EPA 6010B (EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **304232**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	202.6	5.0	250	5.459	78.9	47	128	0	0		

Sample ID: **057978-006AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723F**
Client ID: **ZZZZZ** Batch ID: **9691** TestNo: **EPA 6010B (EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **304244**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	218.9	5.0	250	4.91	85.6	47	128	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

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CLIENT: Ninyo & Moore
Work Order: 057977
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 9691

Sample ID: **057977-023ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723F**
Client ID: **570-810-1.5** Batch ID: **9691** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **304231**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	9.641	5.0	0	0	0	0	0	5.459	55.4	30	R

Sample ID: **057978-006ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723F**
Client ID: **ZZZZZ** Batch ID: **9691** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **304243**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	29.83	5.0	0	0	0	0	0	4.91	143	30	R

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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B - Analyte detected in the associated Method Blank
Calculations are based on raw values
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CLIENT: Ninyo & Moore
Work Order: 057977
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 9745

Sample ID: **MB-9745** SampType: **MBLK** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/22/2002** Run ID: **ICP2_020723B**
Client ID: **ZZZZZ** Batch ID: **9745** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/23/2002** SeqNo: **303590**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.0050									

Sample ID: **LCS-9745** SampType: **LCS** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/22/2002** Run ID: **ICP2_020723B**
Client ID: **ZZZZZ** Batch ID: **9745** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/23/2002** SeqNo: **303591**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.96	0.0050	1	0	96	80	120	0	0		

Sample ID: **057999-001AMS** SampType: **MS** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/22/2002** Run ID: **ICP2_020723B**
Client ID: **ZZZZZ** Batch ID: **9745** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/23/2002** SeqNo: **303603**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.54	0.0050	2.5	0	102	66	118	0	0		

Sample ID: **057999-001ADUP** SampType: **DUP** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/22/2002** Run ID: **ICP2_020723B**
Client ID: **ZZZZZ** Batch ID: **9745** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/23/2002** SeqNo: **303602**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.0050	0	0	0	0	0	0	0	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
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CLIENT: Ninyo & Moore
Work Order: 057977
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 9899

Sample ID: **MB-9899** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020730A**
Client ID: **ZZZZZ** Batch ID: **9899** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/30/2002** SeqNo: **309614**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9899A** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020730A**
Client ID: **ZZZZZ** Batch ID: **9899** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/30/2002** SeqNo: **309615**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9899B** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020730A**
Client ID: **ZZZZZ** Batch ID: **9899** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/30/2002** SeqNo: **309628**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-9899** SampType: **LCS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020730A**
Client ID: **ZZZZZ** Batch ID: **9899** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/30/2002** SeqNo: **309642**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.422	0.20	7.5	0	99	80	120	0	0		

Sample ID: **057977-012AMS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020730A**
Client ID: **570-808-0.3** Batch ID: **9899** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/30/2002** SeqNo: **309627**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.963	0.20	5	1.424	90.8	80	120	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
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Work Order: 057977
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 9899

Sample ID: **057978-009AMS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020730A**
Client ID: **ZZZZZ** Batch ID: **9899** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/30/2002** SeqNo: **309640**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	161.2	4.0	100	59.83	101	80	120	0	0		

Sample ID: **057977-012ADUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020730A**
Client ID: **570-808-0.3** Batch ID: **9899** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/30/2002** SeqNo: **309626**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.256	0.20	0	0	0	0	0	1.424	12.6	30	

Sample ID: **057978-009ADUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020730A**
Client ID: **ZZZZZ** Batch ID: **9899** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/30/2002** SeqNo: **309639**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	64.91	2.0	0	0	0	0	0	59.83	8.15	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
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Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 9986

Sample ID: **MB-9986** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802O**
Client ID: **ZZZZZ** Batch ID: **9986** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312574**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9986A** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/31/2002** Run ID: **AA2_020802O**
Client ID: **ZZZZZ** Batch ID: **9986** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312575**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9986B** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/31/2002** Run ID: **AA2_020802O**
Client ID: **ZZZZZ** Batch ID: **9986** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312588**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-9986** SampType: **LCS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802O**
Client ID: **ZZZZZ** Batch ID: **9986** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312602**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.522	0.20	7.5	0	100	80	120	0	0		

Sample ID: **057977-006AMS** SampType: **MS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802O**
Client ID: **570-805-0.9** Batch ID: **9986** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312587**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.313	0.20	5	0.07351	105	80	120	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
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Calculations are based on raw values
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CLIENT: Ninyo & Moore
Work Order: 057977
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 9986

Sample ID: **057978-009AMSD** SampType: **MSD** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802O**
Client ID: **ZZZZZ** Batch ID: **9986** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312601**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.498	0.20	5	0.2267	105	80	120	5.382	2.13	20	

Sample ID: **057977-006ADUP** SampType: **DUP** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/31/2002** Run ID: **AA2_020802O**
Client ID: **570-805-0.9** Batch ID: **9986** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312586**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.08167	0.20	0	0	0	0	0	0.07351	0	30	J

Sample ID: **057978-009ADUP** SampType: **DUP** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/31/2002** Run ID: **AA2_020802O**
Client ID: **ZZZZZ** Batch ID: **9986** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312599**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.2293	0.20	0	0	0	0	0	0.2267	1.14	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

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Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: R19675

Sample ID: **057978-042A-DUP** SampType: **DUP** TestCode: **9045_S** Units: **pH Units** Prep Date: **7/23/2002** Run ID: **WETCHEM_020723D**
Client ID: **ZZZZZ** Batch ID: **R19675** TestNo: **EPA 9045C** Analysis Date: **7/23/2002** SeqNo: **303806**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	8.126	0.10	0	0	0	0	0	8.187	0.748	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

Rachelle

From: Steve Reese [sreese@ninyoandmoore.com]
Sent: Wednesday, July 31, 2002 9:27 AM
To: 'rachelle@atlglobal.com'
Cc: David Shaler (E-mail); Ruth Cheung (E-mail)
Subject: TCLP Analysis

TCLP.xls

Rachelle,
Attached please find a list of samples to be run for the TCLP analysis. Currently, we selected all of the samples that are greater than 1,000 mg/kg
of TTLC results. However, they will be ran by instruction only. There may
be more samples chosen for TCLP analysis in the future, but please run these 82 samples for now. Please call with any questions.
Thank you, Steve

Stephen S. Reese
Senior Staff Environmental Scientist
Ninyo & Moore Geotechnical & Environmental Sciences Consultants
475 Goddard, Suite 200
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Tel: (949) 753-7070
Fax: (949) 753-7071
Email: sreese@ninyoandmoore.com
www.ninyoandmoore.com

RUN FOR TCLP ANALYSIS			
33	20	29	82
569-101-0	570-101-0	571-104-0	
569-102-0	570-101-0.6	571-120-0	
569-102-0.3	570-102-0.6	571-310-0.9	
569-102-0.9	570-103-1.5	571-317-0	
569-111-0	570-114-0.6	571-320-0	
569-112-0	570-115-0	571-325-0.6	
569-112-0.6	570-119-0.3	571-507-0	
569-201-0	570-201-0	571-511-0	
569-212-0	570-214-0	571-514-0	
569-301-0	570-311-0.6	571-524-0	
569-303-0.9	570-312-0.6	571-710-0	
569-314-0	570-504-0	571-710-0.3	
569-401-0	570-508-0	571-711-0	
569-404-0.6	570-517-0	571-711-0.3	
569-405-0.6	570-517-0.3	571-712-0	
569-408-0.9	570-610-0.6	571-712-0.3	
569-502-0.6	570-615-0	571-201-0.6	
569-516-0	570-706-0	571-405-0	
569-603-0.3	570-709-0	571-406-0	
569-607-0	570-808-0.6	571-407-0	
569-607-0.3		571-414-0	
569-609-0		571-609-0	
569-609-0.3		571-611-0	
569-703-0		571-616-0	
569-703-0.9		571-617-0	
569-705-0		571-619-1.5	
569-705-0.3		571-814-0.3	
569-706-0		571-818-0.6	
569-708-0		571-819-0	
569-710-0			
569-711-0			
569-711-0.3			
569-801-0.3			

Rachelle

From: Ruth Cheung [rcheung@ninyoandmoore.com]
Sent: Tuesday, August 06, 2002 3:46 PM
To: 'Rachelle'; 'David Shaler (E-mail)'
Subject: Title 22 Metals

Title 22 Metals.xls

Rachelle,
Please run the following samples for Title 22 Metals. Please do not list
Pb in your emailed results. There should be a total of 120 samples to be
run.
Thanks.

Ruth L. Cheung
Staff Environmental Scientist
Ninyo & Moore
(949) 753-7070 x2273

569-102-0.9	570-101-0	571-101-0.9
569-112-0	570-101-0.6	571-104-0
569-201-0	570-201-0	571-201-0.6
569-206-0.6	570-205-0.9	571-108-1.5
569-106-1.5	570-106-0.3	571-111-0.3
569-212-0	570-208-1.5	571-207-0
569-401-0.6	570-111-0.6	571-210-0.6
569-301-0	570-214-0	571-115-0.9
569-303-0.9	570-115-0.3	571-214-0.3
569-404-0.6	570-119-0.9	571-120-0
569-408-0.9	570-224-0.6	571-217-1.5
569-314-0	570-401-0	571-220-0.6
569-313-0.3	570-401-0.3	571-301-0.3
569-502-0.6	570-304-1.5	571-405-0
569-602-1.5	570-307-0.9	571-306-0.9
569-607-0.3	570-311-0.6	571-407-0
569-607-0	570-312-0.6	571-310-0.9
569-508-0.9	570-316-0.3	571-315-0.3
569-511-0.6	570-601-0	571-412-1.5
569-612-1.5	570-505-1.5	571-317-0
569-516-0	570-508-0	571-320-0.6
569-801-0.3	570-610-0.6	571-416-0.9
569-519-0.6	570-511-0.9	571-325-0.3
569-803-0.9	570-615-0	571-421-1.5
569-705-0	570-514-0.3	571-425-0
569-806-1.5	570-517-0	571-501-0.6
569-708-0.3	570-618-0.6	571-503-0.9
569-711-0	570-621-1.5	571-603-0.3
569-811-0	570-703-0.9	571-507-0
	570-804-0	571-609-0
	570-706-0	571-510-1.5
	570-709-0	571-611-0
	570-808-0.6	571-514-0
	570-711-1.5	571-614-0.3
	570-812-0.3	571-517-0.9
		571-617-0.6
		571-520-1.5
		571-621-0.3
		571-524-0
		571-624-0.9
		571-529-0.3
		571-628-0.6
		571-703-1.5
		571-707-0
		571-804-0.9
		571-809-0.3
		571-711-0
		571-712-0
		571-814-0.3
		571-818-0.6
		571-819-0
		571-827-1.5

571-832-0.9
571-836-0.3
571-837-0.6
571-842-0

Rachelle

From: Ruth Cheung [rcheung@ninyoandmoore.com]
Sent: Thursday, August 08, 2002 9:14 AM
To: 'Rachelle'
Subject: TCLP Analysis

TCLP-3.xls

In addition to the 90 TCLP already run please run the following samples for
TCLP. There should be a list of 350 samples.
Thanks for a the hard work and timely results.

Ruth L. Cheung
Staff Environmental Scientist
Ninyo & Moore
(949) 753-7070 x2273

-----Original Message-----
From: Rachelle [SMTP:Rachelle@ATLGlobal.com]
Sent: Wednesday, August 07, 2002 5:02 PM
To: 'David Shaler (E-mail)'
Cc: 'Ruth Cheung (E-mail)'
Subject: TCLP Results

<<57931TCLP.xls>> <<58001TCLP.xls>> <<58021TCLP.xls>> <<58022TCLP.xls>>
<<58023TCLP.xls>> <<58024TCLP.xls>> <<58049TCLP.xls>> <<58050TCLP.xls>>
<<58052TCLP.xls>> <<58053TCLP.xls>> <<58065TCLP.xls>> <<58066TCLP.xls>>
<<58067TCLP.xls>> <<58068TCLP.xls>> <<58069TCLP.xls>>

Rachelle Arada
Project Coordinator
www.atlglobal.com
voice: 562.989.4045 ext 237
fax : 562.989.4040

<< File: 57931TCLP.xls >> << File: 58001TCLP.xls >> << File: 58021TCLP.xls >> << File: 58022TCLP.xls >> << File: 58023TCLP.xls >> << File: 58024TCLP.xls >> << File: 58049TCLP.xls >> << File: 58050TCLP.xls >> << File: 58052TCLP.xls >> << File: 58053TCLP.xls >> << File: 58065TCLP.xls >> << File: 58066TCLP.xls >> << File: 58067TCLP.xls >> << File: 58068TCLP.xls >> << File: 58069TCLP.xls >>

569-404-0	2. STLC	170
569-402-0	2. STLC	130
569-406-0	2. STLC	120
569-515-0	2. STLC	110
569-611-0	2. STLC	100
569-409-0	2. STLC	94
569-603-0	2. STLC	93
569-104-0.6	2. STLC	91
569-807-0	2. STLC	86
569-608-0	2. STLC	86
569-501-0	2. STLC	84
569-710-0.3	2. STLC	83
569-808-0	2. STLC	83
569-609-0.6	2. STLC	80
569-803-0	2. STLC	79
569-105-0	2. STLC	78
569-512-0	2. STLC	77
569-513-0	2. STLC	77
569-302-0	2. STLC	74
569-805-0	2. STLC	73
569-517-0	2. STLC	71
569-704-0.3	2. STLC	71
569-703-0.6	2. STLC	70
569-514-0.3	2. STLC	70
569-803-0.3	2. STLC	69
569-409-0.6	2. STLC	69
569-411-0	2. STLC	68
569-102-0.6	2. STLC	68
569-809-0	2. STLC	65
569-605-0	2. STLC	65
569-711-0.6	2. STLC	62
569-806-0	2. STLC	60
569-802-0.3	2. STLC	60
569-410-0	2. STLC	59
569-501-0.6	2. STLC	59
569-808-0.3	2. STLC	58
569-104-0	2. STLC	56
569-804-0	2. STLC	54
569-610-0	2. STLC	54
569-608-0.3	2. STLC	53
569-213-0	2. STLC	49
569-701-0	2. STLC	47
569-311-0	2. STLC	47
569-609-0.9	2. STLC	46
569-513-0.3	2. STLC	45
569-801-0.6	2. STLC	44
569-514-0	2. STLC	42
569-805-0.6	2. STLC	42
569-408-1.5	2. STLC	42
569-807-0.3	2. STLC	40
569-204-0	2. STLC	40
569-517-0.3	2. STLC	36
569-518-0	2. STLC	36
569-806-0.3	2. STLC	36
569-705-1.5	2. STLC	35
569-303-0.6	2. STLC	34
569-516-0.3	2. STLC	33
569-705-0.6	2. STLC	33
569-802-0	2. STLC	33
569-515-0.6	2. STLC	32
569-704-0	2. STLC	32
569-401-0.3	2. STLC	32
569-207-0	2. STLC	32
569-608-0.6	2. STLC	31
569-104-0.3	2. STLC	31
569-201-0.6	2. STLC	30
569-515-0.3	2. STLC	28
569-212-0.6	2. STLC	28
569-103-0	2. STLC	28
569-313-0	2. STLC	27
569-103-0.3	2. STLC	26
569-705-0.9	2. STLC	25
569-707-0.3	2. STLC	25
569-515-1.5	2. STLC	24
569-508-0	2. STLC	24
569-801-0	2. STLC	24
569-402-0.6	2. STLC	24
569-516-0.6	2. STLC	22
569-509-0.3	2. STLC	22
569-106-0	2. STLC	22
569-106-0.3	2. STLC	22
569-202-0	2. STLC	21
569-805-1.5	2. STLC	21
569-205-0	2. STLC	20
569-707-0	2. STLC	19

570-515-0.3	2. STLC	120
570-811-0	2. STLC	110
570-114-0.0	2. STLC	110
570-504-0.6	2. STLC	100
570-811-1.5	2. STLC	90
570-615-0.6	2. STLC	84
570-305-0	2. STLC	79
570-314-0.6	2. STLC	76
570-505-0.6	2. STLC	75
570-208-0.6	2. STLC	74
570-116-0.0	2. STLC	73
570-102-0	2. STLC	65
570-804-0.6	2. STLC	64
570-704-0	2. STLC	63
570-508-0.6	2. STLC	60
570-706-0.3	2. STLC	60
570-303-0	2. STLC	58
570-311-1.5	2. STLC	58
570-117-0.0	2. STLC	58
570-208-0.3	2. STLC	58
570-709-0.6	2. STLC	57
570-703-0	2. STLC	55
570-206-0	2. STLC	54
570-301-0	2. STLC	53
570-603-0.3	2. STLC	46
570-711-0.6	2. STLC	46
570-206-0.3	2. STLC	45
570-103-0	2. STLC	44
570-602-0	2. STLC	41
570-209-0	2. STLC	40
570-210-0	2. STLC	40
570-117-0.3	2. STLC	39
570-103-0.6	2. STLC	37
570-110-0.6	2. STLC	37
570-805-0.9	2. STLC	36
570-112-1.5	2. STLC	35
570-614-0	2. STLC	34
570-713-0.3	2. STLC	33
570-513-0	2. STLC	32
570-312-0.3	2. STLC	31
570-503-0.6	2. STLC	31
570-510-0.6	2. STLC	31
570-202-0	2. STLC	31
570-207-0	2. STLC	31
570-209-0.3	2. STLC	31
570-703-0.3	2. STLC	30
570-401-0	2. STLC	30
570-610-0.9	2. STLC	29
570-809-0.6	2. STLC	29
570-509-0.9	2. STLC	29
570-210-0.6	2. STLC	29
570-211-0	2. STLC	29
570-603-0	2. STLC	28
570-119-0	2. STLC	28
570-713-0.6	2. STLC	28
570-108-0	2. STLC	27
570-708-0.6	2. STLC	27
570-224-0	2. STLC	26
570-601-0	2. STLC	26
570-710-0.6	2. STLC	26
570-614-0.6	2. STLC	26
570-118-0.3	2. STLC	26
570-304-0	2. STLC	25
570-707-0.6	2. STLC	25
570-510-0	2. STLC	25
570-110-0	2. STLC	24
570-223-0	2. STLC	24
570-117-0.6	2. STLC	24
570-616-0	2. STLC	23
570-704-0.3	2. STLC	22
570-513-0.6	2. STLC	22
570-221-0.0	2. STLC	22
570-617-0	2. STLC	21
570-214-0.3	2. STLC	21
570-122-0.9	2. STLC	20
570-313-0.6	2. STLC	19
570-207-0.6	2. STLC	19
570-120-0.9	2. STLC	18
570-506-0	2. STLC	18
570-102-0.9	2. STLC	17
570-216-0	2. STLC	17
570-225-0	2. STLC	17
570-304-0.3	2. STLC	17
570-409-0	2. STLC	17
570-713-0	2. STLC	17

571-521-0	2. STLC	230
571-324-0.9	2. STLC	110
571-818-0	2. STLC	110
571-819-0.6	2. STLC	110
571-708-0	2. STLC	110
571-103-0.6	2. STLC	110
571-617-0.3	2. STLC	100
571-611-0.6	2. STLC	92
571-712-0.9	2. STLC	81
571-105-0.6	2. STLC	81
571-313-0	2. STLC	79
571-508-0	2. STLC	73
571-518-0.3	2. STLC	73
571-217-0	2. STLC	68
571-516-0	2. STLC	66
571-701-0.3	2. STLC	66
571-710-0.6	2. STLC	65
571-512-0	2. STLC	64
571-308-0.9	2. STLC	61
571-701-0	2. STLC	61
571-514-0.3	2. STLC	59
571-415-0	2. STLC	58
571-616-0.6	2. STLC	57
571-517-0	2. STLC	56
571-112-0.9	2. STLC	56
571-214-0	2. STLC	55
571-415-0.3	2. STLC	55
571-405-0.6	2. STLC	55
571-530-0	2. STLC	55
571-831-0	2. STLC	53
571-709-0	2. STLC	53
571-103-0.0	2. STLC	52
571-312-0	2. STLC	51
571-526-0	2. STLC	51
571-819-1.5	2. STLC	51
571-515-0	2. STLC	50
571-833-0	2. STLC	49
571-815-0.6	2. STLC	47
571-517-0.3	2. STLC	46
571-610-0	2. STLC	46
571-413-0	2. STLC	46
571-815-0	2. STLC	45
571-514-0.9	2. STLC	44
571-505-1.5	2. STLC	44
571-528-0	2. STLC	44
571-610-0.6	2. STLC	43
571-629-0	2. STLC	43
571-604-0	2. STLC	42
571-213-0	2. STLC	41
571-812-0	2. STLC	41
571-706-0	2. STLC	41
571-530-0.6	2. STLC	41
571-305-0	2. STLC	40
571-523-0.3	2. STLC	39
571-510-0	2. STLC	39
571-305-0.9	2. STLC	39
571-818-1.5	2. STLC	39
571-703-0	2. STLC	38
571-520-0.3	2. STLC	36
571-216-0	2. STLC	34
571-827-0	2. STLC	34
571-708-0.3	2. STLC	34
571-514-0.6	2. STLC	33
571-528-1.5	2. STLC	33
571-803-0	2. STLC	33
571-414-0.3	2. STLC	33
571-813-0.3	2. STLC	32
571-523-0	2. STLC	31
571-326-0	2. STLC	31
571-502-0.6	2. STLC	31
571-624-1.5	2. STLC	31
571-330-0	2. STLC	31
571-512-0.3	2. STLC	30
571-521-0.6	2. STLC	29
571-706-0.3	2. STLC	29
571-814-0.6	2. STLC	28
571-616-1.5	2. STLC	28
571-835-0	2. STLC	28
571-811-0.3	2. STLC	28
571-101-0.6	2. STLC	28
571-112-0	2. STLC	28
571-315-0	2. STLC	27
571-622-0	2. STLC	27
571-607-0.6	2. STLC	27
571-609-0.6	2. STLC	27

569-709-0	2. STLC	19
569-202-0.3	2. STLC	19
569-602-0	2. STLC	19
569-207-0.3	2. STLC	19
569-706-0.3	2. STLC	17
569-807-0.9	2. STLC	17
569-104-0.9	2. STLC	17
569-505-0.6	2. STLC	17
569-704-0.6	2. STLC	16
569-808-0.6	2. STLC	16
569-212-0.3	2. STLC	16
569-612-0	2. STLC	16
569-704-1.5	2. STLC	15
569-411-0.3	2. STLC	15
569-113-0	2. STLC	15
569-807-0.6	2. STLC	14
569-311-0.3	2. STLC	12
569-312-0	2. STLC	10
569-311-0.9	2. STLC	8.3

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570-401-0.3	2. STLC	17
570-616-0.6	2. STLC	17
570-308-0	2. STLC	16
570-807-0.9	2. STLC	16
570-701-0.6	2. STLC	16
570-617-0.3	2. STLC	16
570-107-0.6	2. STLC	15
570-811-0.6	2. STLC	15
570-707-0	2. STLC	15
570-518-0	2. STLC	15
570-111-0.0	2. STLC	15
570-109-0.6	2. STLC	14
570-401-0.9	2. STLC	4.1
570-408-0	2. STLC	4
570-409-0.3	2. STLC	3
570-401-0.6		0
570-401-1.5		0
570-408-0.6		0
570-408-1.5		0

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571-837-0.3	2. STLC	27
571-520-0	2. STLC	26
571-516-0.3	2. STLC	26
571-420-0	2. STLC	26
571-102-0.6	2. STLC	26
571-517-1.5	2. STLC	25
571-513-0.6	2. STLC	25
571-623-0.6	2. STLC	25
571-112-0.3	2. STLC	25
571-326-0.6	2. STLC	24
571-619-0.3	2. STLC	24
571-619-0.9	2. STLC	24
571-528-0.3	2. STLC	24
571-706-0.6	2. STLC	24
571-112-0.6	2. STLC	24
571-327-0.6	2. STLC	23
571-817-0	2. STLC	23
571-425-0.6	2. STLC	22
571-118-0	2. STLC	22
571-829-0	2. STLC	22
571-828-0	2. STLC	22
571-122-0	2. STLC	21
571-101-1.5	2. STLC	21
571-530-0.3	2. STLC	21
571-406-0.6	2. STLC	20
571-517-0.6	2. STLC	20
571-835-0.3	2. STLC	20
571-501-0	2. STLC	20
571-518-0.9	2. STLC	19
571-510-0.3	2. STLC	19
571-814-0.9	2. STLC	19
571-522-0.6	2. STLC	19
571-622-1.5	2. STLC	19
571-812-0.6	2. STLC	19
571-701-0.6	2. STLC	19
571-704-0	2. STLC	19
571-711-0.6	2. STLC	19
571-212-0	2. STLC	18
571-839-0.6	2. STLC	18
571-610-1.5	2. STLC	18
571-709-0.3	2. STLC	18
571-311-0.6	2. STLC	17
571-620-0	2. STLC	17
571-109-0	2. STLC	17
571-704-0.3	2. STLC	17
571-207-1.5	2. STLC	16
571-203-0	2. STLC	16
571-616-0.3	2. STLC	16
571-317-0.3	2. STLC	16
571-629-0.3	2. STLC	16
571-416-0	2. STLC	15
571-419-0	2. STLC	15
571-526-0.3	2. STLC	15
571-619-0	2. STLC	15
571-606-0	2. STLC	15
571-115-0.6	2. STLC	14
571-202-0.9	2. STLC	11

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Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

tblTEMP

WorkOrder	ClientSampID	TestNo	Analyte	PQL	DF	CollectionDate	AnalDate	PrepDate
057977	570-804-1.5	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057977	570-804-1.5	EPA 9045C	pH	0.1	1	7/17/2002	7/23/2002	7/23/2002
057977	570-805-0	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057977	570-805-0.3	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057977	570-805-0.3	WET DI/ EPA 7420	Lead	0.2	1	7/17/2002	8/2/2002	7/31/2002
057977	570-805-0.3	WET/ EPA 7420	Lead	0.4	2	7/17/2002	7/30/2002	7/26/2002
057977	570-805-0.6	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057977	570-805-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/17/2002	8/2/2002	7/31/2002
057977	570-805-0.6	WET/ EPA 7420	Lead	0.2	1	7/17/2002	7/30/2002	7/26/2002
057977	570-805-0.9	EPA 1311/ 7420	Lead	0.2	1	7/17/2002	8/15/2002	8/13/2002
057977	570-805-0.9	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057977	570-805-0.9	WET DI/ EPA 7420	Lead	0.2	1	7/17/2002	8/2/2002	7/31/2002
057977	570-805-0.9	WET/ EPA 7420	Lead	0.8	4	7/17/2002	7/30/2002	7/26/2002
057977	570-807-0	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057977	570-807-0	WET/ EPA 7420	Lead	0.2	1	7/17/2002	7/30/2002	7/26/2002
057977	570-807-0.3	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057977	570-807-0.6	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057977	570-807-0.9	EPA 1311/ 7420	Lead	0.2	1	7/17/2002	8/15/2002	8/13/2002
057977	570-807-0.9	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057977	570-807-0.9	WET DI/ EPA 7420	Lead	0.2	1	7/17/2002	8/2/2002	7/31/2002
057977	570-807-0.9	WET/ EPA 7420	Lead	0.4	2	7/17/2002	7/30/2002	7/26/2002
057977	570-808-0	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057977	570-808-0	WET DI/ EPA 7420	Lead	0.2	1	7/17/2002	8/2/2002	7/31/2002
057977	570-808-0	WET/ EPA 7420	Lead	0.2	1	7/17/2002	7/30/2002	7/26/2002
057977	570-808-0.3	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057977	570-808-0.3	EPA 9045C	pH	0.1	1	7/17/2002	7/23/2002	7/23/2002
057977	570-808-0.3	WET/ EPA 7420	Lead	0.2	1	7/17/2002	7/30/2002	7/26/2002
057977	570-808-0.6	EPA 1311/ 7420	Lead	0.2	1	7/17/2002	8/6/2002	8/5/2002
057977	570-808-0.6	EPA 6010B	Antimony	2.5	10	7/17/2002	8/10/2002	8/8/2002
057977	570-808-0.6	EPA 6010B	Arsenic	2.5	10	7/17/2002	8/10/2002	8/8/2002
057977	570-808-0.6	EPA 6010B	Barium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057977	570-808-0.6	EPA 6010B	Beryllium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057977	570-808-0.6	EPA 6010B	Cadmium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057977	570-808-0.6	EPA 6010B	Chromium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057977	570-808-0.6	EPA 6010B	Cobalt	1.5	10	7/17/2002	8/10/2002	8/8/2002

057977	570-808-0.6	EPA 6010B	Copper	1.5	10	7/17/2002	8/10/2002	8/8/2002
057977	570-808-0.6	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057977	570-808-0.6	EPA 6010B	Molybdenum	2.5	10	7/17/2002	8/10/2002	8/8/2002
057977	570-808-0.6	EPA 6010B	Nickel	1.5	10	7/17/2002	8/10/2002	8/8/2002
057977	570-808-0.6	EPA 6010B	Selenium	2.5	10	7/17/2002	8/10/2002	8/8/2002
057977	570-808-0.6	EPA 6010B	Silver	1.5	10	7/17/2002	8/10/2002	8/8/2002
057977	570-808-0.6	EPA 6010B	Thallium	2.5	10	7/17/2002	8/10/2002	8/8/2002
057977	570-808-0.6	EPA 6010B	Vanadium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057977	570-808-0.6	EPA 6010B	Zinc	5	10	7/17/2002	8/10/2002	8/8/2002
057977	570-808-0.6	EPA 7471A	Mercury	0.1	1	7/17/2002	8/9/2002	8/7/2002
057977	570-808-0.9	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057977	570-809-0	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057977	570-809-0.3	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057977	570-809-0.6	EPA 1311/ 7420	Lead	0.2	1	7/17/2002	8/15/2002	8/13/2002
057977	570-809-0.6	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057977	570-809-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/17/2002	8/2/2002	7/31/2002
057977	570-809-0.6	WET/ EPA 7420	Lead	0.8	4	7/17/2002	7/30/2002	7/26/2002
057977	570-809-0.9	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057977	570-810-0	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057977	570-810-0	WET DI/ EPA 7420	Lead	0.2	1	7/17/2002	8/2/2002	7/31/2002
057977	570-810-0	WET/ EPA 7420	Lead	0.2	1	7/17/2002	7/30/2002	7/26/2002
057977	570-810-0.3	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057977	570-810-0.3	WET/ EPA 7420	Lead	0.2	1	7/17/2002	7/30/2002	7/26/2002
057977	570-810-0.6	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057977	570-810-0.9	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057977	570-810-1.5	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057977	570-810-1.5	EPA 9045C	pH	0.1	1	7/17/2002	7/23/2002	7/23/2002
057977	570-811-0	EPA 1311/ 7420	Lead	0.2	1	7/17/2002	8/15/2002	8/13/2002
057977	570-811-0	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057977	570-811-0	EPA 6010B	Lead	5	1	7/17/2002	8/14/2002	8/13/2002
057977	570-811-0	WET DI/ EPA 7420	Lead	0.2	1	7/17/2002	8/2/2002	7/31/2002
057977	570-811-0	WET/ EPA 7420	Lead	4	20	7/17/2002	7/30/2002	7/26/2002
057977	570-811-0.3	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057977	570-811-0.3	WET DI/ EPA 7420	Lead	0.2	1	7/17/2002	8/2/2002	7/31/2002
057977	570-811-0.3	WET/ EPA 7420	Lead	0.2	1	7/17/2002	7/30/2002	7/26/2002
057977	570-811-0.6	EPA 1311/ 7420	Lead	0.2	1	7/17/2002	8/15/2002	8/13/2002

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057977	570-811-0.6	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057977	570-811-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/17/2002	8/2/2002	7/31/2002
057977	570-811-0.6	WET/ EPA 7420	Lead	0.4	2	7/17/2002	7/30/2002	7/26/2002
057977	570-811-0.9	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057977	570-811-1.5	EPA 1311/ 7420	Lead	0.2	1	7/17/2002	8/15/2002	8/13/2002
057977	570-811-1.5	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057977	570-811-1.5	WET DI/ EPA 7420	Lead	0.2	1	7/17/2002	8/2/2002	7/31/2002
057977	570-811-1.5	WET/ EPA 7420	Lead	2	10	7/17/2002	7/30/2002	7/26/2002
057977	EB-15	EPA 6010B	Lead	0.005	1	7/17/2002	7/23/2002	7/22/2002

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August 15, 2002

David Shaler
Ninyo & Moore
475 Goddard Suite 200
Irvine, CA 92618
TEL: (949) 753-7070
FAX: (949) 753-7071

ELAP No.: 1838
NELAP No.: 02107CA
Workorder No.: 057978

RE: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

Attention: David Shaler

Enclosed are the results for sample(s) received on July 17, 2002 by Advanced Technology Laboratories and tested for the parameters indicated in the enclosed chain of custody.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

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AUG 2 6 2002
NINYO & MOORE
ORANGE COUNTY OFFICE

This cover letter is an integral part of this analytical report.

Laboratory	Site	Consultant
Advanced Technology Laboratories	Caltrans/I-10 (605-57)/Lead Survey	Ninyo & Moore - David Shaler/Steve Reese
3275 Walnut Avenue, Signal Hill, CA 90807	TO 07-117070-PX	475 Goddard, Suite 200, Irvine, CA 92618
Tel. (562) 989-4045 Fax (562) 989-6348	Project # 203939001	Tel. (949) 753-7070 Fax (949) 753-7071

Special Instructions
See Project specifications. 5 Day TAT.

Relinquished by: (name/date/time) 7-17-02 | Received by: (name/date/time) 7/17/02
Relinquished by: (name/date/time) 7/17/02 1725 | Received by: (name/date/time) 7/17/02 17:25

Lab No	Sample I.D	Date	Time	Sample container P=plastic B=brass	Analyses: Total Lead EPA Method 6010	Analyses: pH EPA Method 9045
	EB-12	7/17/02	RL 8:55 16:41	P	X	
	570-509-0.0		RL 9:00 8:55	B	X	X
	570-509-0.3		RL 9:05 9:00		X	
	570-509-0.6		9:05		X	
	570-509-0.9		9:10		X	
	570-509-1.5		9:15		X	
	570-508-0.0		9:20		X	
	570-508-0.3		9:25		X	
	570-508-0.6		9:30		X	
	570-508-0.9		9:35		X	
	570-508-1.5		9:40		X	
	570-506-0.0		9:45		X	X
	570-506-0.3		9:50		X	
	570-506-0.6		9:52		X	
	570-506-0.9		9:55		X	
	570-506-1.5		10:00		X	
	570-505-0.0		10:05		X	
	570-505-0.3		10:08		X	
	570-505-0.6		10:10		X	
	570-505-0.9		10:13		X	
	570-505-1.5		10:15		X	
	570-504-0.0		10:20		X	X
	570-504-0.3		10:22		X	
	570-504-0.6		10:25		X	
	570-504-0.9		10:27		X	
	570-504-1.5		10:29		X	
	570-503-0.0		10:35		X	
	570-503-0.3		10:38		X	
	570-503-0.6		10:42		X	
	570-503-0.9		10:45		X	
	570-503-1.5		10:48		X	
	570-317-0.0		10:55		X	X
	570-317-0.3		10:58		X	
	570-317-0.6		11:05		X	
	570-317-0.9		11:08		X	
	570-317-1.5		11:12		X	
	570-812-0.0		12:15		X	
	570-812-0.3		12:18		X	
	570-812-0.6		12:22		X	
	570-812-0.9		12:25		X	
	570-812-1.5		12:30		X	
	570-813-0.0		12:40		X	X
	570-813-0.3		12:42		X	
	570-813-0.6		12:50		X	
	570-813-0.9		12:55		X	
	570-301-0		9:00		X	
	570-301-0.3		9:10		X	
	570-301-0.6		9:20		X	
	570-123-0		9:10		X	
	570-123-0.3		9:12		X	
	570-123-0.6		9:16		X	
	570-123-0.9		9:25		X	X
	570-119-0		9:52		X	
	570-119-0.3		9:58		X	
	570-119-0.6		10:02		X	
	~~570-~~				~~X~~	
	~~570-~~				~~X~~	
	~~570-~~				~~X~~	
	~~570-~~				~~X~~	
	~~570-~~				~~X~~	

Total # of samples: 55

Advanced Technology Laboratories

Date: *24-Jul-02*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	EB-12
Lab Order:	057978		
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Collection Date:**	7/17/2002 3:41:00 PM
Lab ID:	057978-001A	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
LEAD BY ICP						
	(EPA 3010A)			**EPA 6010B**		
RunID: ICP2_020723B	QC Batch: 9745					Analyst: **RQ**
Lead	ND	0.0050		mg/L	1	7/23/2002

Qualifiers:

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J - Analyte detected below quantitation limits
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S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: 7/24/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057978
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/17/2002 5:25:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057978-002A	570-509-0.0	5.8	mg/Kg	9691	5	1	7/17/2002	7/23/2002
057978-003A	570-509-0.3	8.6	mg/Kg	9691	5	1	7/17/2002	7/23/2002
057978-004A	570-509-0.6	7.2	mg/Kg	9691	5	1	7/17/2002	7/23/2002
057978-005A	570-509-0.9	330	mg/Kg	9691	5	1	7/17/2002	7/23/2002
057978-006A	570-509-1.5	ND	mg/Kg	9691	5	1	7/17/2002	7/23/2002
057978-007A	570-508-0.0	1700	mg/Kg	9692	5	1	7/17/2002	7/23/2002
057978-008A	570-508-0.3	350	mg/Kg	9692	5	1	7/17/2002	7/23/2002
057978-009A	570-508-0.6	560	mg/Kg	9692	5	1	7/17/2002	7/23/2002
057978-010A	570-508-0.9	16	mg/Kg	9692	5	1	7/17/2002	7/23/2002
057978-011A	570-508-1.5	28	mg/Kg	9692	5	1	7/17/2002	7/23/2002
057978-012A	570-506-0.0	210	mg/Kg	9692	5	1	7/17/2002	7/23/2002

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Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: 7/24/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057978
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/17/2002 5:25:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057978-013A	570-506-0.3	13	mg/Kg	9692	5	1	7/17/2002	7/23/2002
057978-014A	570-506-0.6	33	mg/Kg	9692	5	1	7/17/2002	7/23/2002
057978-015A	570-506-0.9	360	mg/Kg	9692	5	1	7/17/2002	7/23/2002
057978-016A	570-506-1.5	20	mg/Kg	9692	5	1	7/17/2002	7/23/2002
057978-017A	570-505-0.0	9.8	mg/Kg	9692	5	1	7/17/2002	7/23/2002
057978-018A	570-505-0.3	6.7	mg/Kg	9692	5	1	7/17/2002	7/23/2002
057978-019A	570-505-0.6	560	mg/Kg	9692	5	1	7/17/2002	7/23/2002
057978-020A	570-505-0.9	140	mg/Kg	9692	5	1	7/17/2002	7/23/2002
057978-021A	570-505-1.5	33	mg/Kg	9692	5	1	7/17/2002	7/23/2002
057978-022A	570-504-0.0	1100	mg/Kg	9692	5	1	7/17/2002	7/23/2002
057978-023A	570-504-0.3	6.0	mg/Kg	9692	5	1	7/17/2002	7/23/2002

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Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: 7/24/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057978
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/17/2002 5:25:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057978-024A	570-504-0.6	75	mg/Kg	9692	5	1	7/17/2002	7/23/2002
057978-025A	570-504-0.9	540	mg/Kg	9692	5	1	7/17/2002	7/23/2002
057978-026A	570-504-1.5	32	mg/Kg	9692	5	1	7/17/2002	7/23/2002
057978-027A	570-503-0.0	72	mg/Kg	9693	5	1	7/17/2002	7/23/2002
057978-028A	570-503-0.3	21	mg/Kg	9693	5	1	7/17/2002	7/23/2002
057978-029A	570-503-0.6	300	mg/Kg	9693	5	1	7/17/2002	7/23/2002
057978-030A	570-503-0.9	6.2	mg/Kg	9693	5	1	7/17/2002	7/23/2002
057978-031A	570-503-1.5	6.0	mg/Kg	9693	5	1	7/17/2002	7/23/2002
057978-032A	570-317-0.0	62	mg/Kg	9693	5	1	7/17/2002	7/23/2002
057978-033A	570-317-0.3	36	mg/Kg	9693	5	1	7/17/2002	7/23/2002
057978-034A	570-317-0.6	190	mg/Kg	9693	5	1	7/17/2002	7/23/2002

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Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: 7/24/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057978
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/17/2002 5:25:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057978-035A	570-317-0.9	5.4	mg/Kg	9693	5	1	7/17/2002	7/23/2002
057978-036A	570-317-1.5	5.2	mg/Kg	9693	5	1	7/17/2002	7/23/2002
057978-037A	570-812-0.0	17	mg/Kg	9693	5	1	7/17/2002	7/23/2002
057978-038A	570-812-0.3	1000	mg/Kg	9693	5	1	7/17/2002	7/23/2002
057978-039A	570-812-0.6	8.8	mg/Kg	9693	5	1	7/17/2002	7/23/2002
057978-040A	570-812-0.9	14	mg/Kg	9693	5	1	7/17/2002	7/23/2002
057978-041A	570-812-1.5	14	mg/Kg	9693	5	1	7/17/2002	7/23/2002
057978-042A	570-813-0.0	48	mg/Kg	9693	5	1	7/17/2002	7/23/2002
057978-043A	570-813-0.3	6.1	mg/Kg	9693	5	1	7/17/2002	7/23/2002
057978-044A	570-813-0.6	130	mg/Kg	9693	5	1	7/17/2002	7/23/2002
057978-045A	570-813-0.9	26	mg/Kg	9693	5	1	7/17/2002	7/23/2002

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Advanced Technology Laboratories

Date: 7/24/2002

LEAD BY ICP
EPA 6010B

CLIENT:	Ninyo & Moore	**Lab Order:**	057978
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/17/2002 5:25:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057978-046A	570-301-0	270	mg/Kg	9693	5	1	7/17/2002	7/23/2002
057978-047A	570-301-0.3	59	mg/Kg	9694	5	1	7/17/2002	7/23/2002
057978-048A	570-301-0.6	30	mg/Kg	9694	5	1	7/17/2002	7/23/2002
057978-049A	570-123-0	140	mg/Kg	9694	5	1	7/17/2002	7/23/2002
057978-050A	570-123-0.3	20	mg/Kg	9694	5	1	7/17/2002	7/23/2002
057978-051A	570-123-0.6	57	mg/Kg	9694	5	1	7/17/2002	7/23/2002
057978-052A	570-123-0.9	47	mg/Kg	9694	5	1	7/17/2002	7/23/2002
057978-053A	570-119-0	240	mg/Kg	9694	5	1	7/17/2002	7/23/2002
057978-054A	570-119-0.3	1300	mg/Kg	9694	5	1	7/17/2002	7/23/2002
057978-055A	570-119-0.6	56	mg/Kg	9694	5	1	7/17/2002	7/23/2002

Qualifiers:

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DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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Date: 7/24/2002

pH
EPA 9045C

CLIENT:	Ninyo & Moore	**Lab Order:**	057978
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/17/2002 5:25:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057978-002A	570-509-0.0	7.31	pH Units	R19675	0.1	1	7/17/2002	7/23/2002
057978-012A	570-506-0.0	8.63	pH Units	R19675	0.1	1	7/17/2002	7/23/2002
057978-022A	570-504-0.0	7.83	pH Units	R19675	0.1	1	7/17/2002	7/23/2002
057978-032A	570-317-0.0	8.65	pH Units	R19675	0.1	1	7/17/2002	7/23/2002
057978-042A	570-813-0.0	8.19	pH Units	R19675	0.1	1	7/17/2002	7/23/2002
057978-052A	570-123-0.9	8.20	pH Units	R19676	0.1	1	7/17/2002	7/23/2002

Qualifiers:

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DO - Surrogate Diluted Out
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Date: 7/31/2002

LEAD BY ATOMIC ABSORPTION
WET/ EPA 7420

CLIENT:	Ninyo & Moore	**Lab Order:**	057978
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/17/2002 5:25:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057978-005A	570-509-0.9	29	mg/L	9899	0.8	4	7/17/2002	7/30/2002
057978-008A	570-508-0.3	0.69	mg/L	9899	0.2	1	7/17/2002	7/30/2002
057978-009A	570-508-0.6	60	mg/L	9899	2	10	7/17/2002	7/30/2002
057978-012A	570-506-0.0	18	mg/L	9900	0.4	2	7/17/2002	7/30/2002
057978-015A	570-506-0.9	ND	mg/L	9900	0.2	1	7/17/2002	7/30/2002
057978-019A	570-505-0.6	75	mg/L	9900	2	10	7/17/2002	7/30/2002
057978-020A	570-505-0.9	1.6	mg/L	9900	0.2	1	7/17/2002	7/30/2002
057978-024A	570-504-0.6	100	mg/L	9900	4	20	7/17/2002	7/30/2002
057978-025A	570-504-0.9	ND	mg/L	9900	0.2	1	7/17/2002	7/30/2002
057978-027A	570-503-0.0	1.2	mg/L	9900	0.2	1	7/17/2002	7/30/2002
057978-029A	570-503-0.6	31	mg/L	9900	0.8	4	7/17/2002	7/30/2002

Qualifiers:

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E - Value above quantitation range
Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: 7/31/2002

LEAD BY ATOMIC ABSORPTION
WET/ EPA 7420

CLIENT:	Ninyo & Moore	**Lab Order:**	057978
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/17/2002 5:25:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057978-032A	570-317-0.0	5.5	mg/L	9900	0.2	1	7/17/2002	7/30/2002
057978-034A	570-317-0.6	4.7	mg/L	9900	0.2	1	7/17/2002	7/30/2002
057978-044A	570-813-0.6	6.2	mg/L	9900	0.2	1	7/17/2002	7/30/2002
057978-046A	570-301-0	53	mg/L	9900	2	10	7/17/2002	7/30/2002
057978-047A	570-301-0.3	5.3	mg/L	9900	0.2	1	7/17/2002	7/30/2002
057978-049A	570-123-0	9.8	mg/L	9900	0.2	1	7/17/2002	7/30/2002
057978-051A	570-123-0.6	3.7	mg/L	9900	0.2	1	7/17/2002	7/30/2002
057978-053A	570-119-0	28	mg/L	9900	0.8	4	7/17/2002	7/30/2002
057978-055A	570-119-0.6	2.4	mg/L	9900	0.2	1	7/17/2002	7/30/2002

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Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: 8/5/2002

LEAD BY ATOMIC ABSORPTION
WET DI/ EPA 7420

CLIENT: Ninyo & Moore
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Project No:
PO No:

Lab Order: 057978
Date Received: 7/17/2002 5:25:0
Matrix: Soil
Analyst: NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057978-005A	570-509-0.9	ND	mg/L	9986	0.2	1	7/17/2002	8/2/2002
057978-009A	570-508-0.6	0.23	mg/L	9986	0.2	1	7/17/2002	8/2/2002
057978-012A	570-506-0.0	0.39	mg/L	9987	0.2	1	7/17/2002	8/2/2002
057978-019A	570-505-0.6	0.37	mg/L	9987	0.2	1	7/17/2002	8/2/2002
057978-024A	570-504-0.6	0.73	mg/L	9987	0.2	1	7/17/2002	8/2/2002
057978-029A	570-503-0.6	ND	mg/L	9987	0.2	1	7/17/2002	8/2/2002
057978-032A	570-317-0.0	ND	mg/L	9987	0.2	1	7/17/2002	8/2/2002
057978-044A	570-813-0.6	ND	mg/L	9987	0.2	1	7/17/2002	8/2/2002
057978-046A	570-301-0	0.26	mg/L	9987	0.2	1	7/17/2002	8/2/2002
057978-047A	570-301-0.3	ND	mg/L	9987	0.2	1	7/17/2002	8/2/2002
057978-049A	570-123-0	ND	mg/L	9987	0.2	1	7/17/2002	8/2/2002

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Advanced Technology Laboratories

Date: 8/5/2002

LEAD BY ATOMIC ABSORPTION
WET DI/ EPA 7420

CLIENT:	Ninyo & Moore	**Lab Order:**	057978
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/17/2002 5:25:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057978-053A	570-119-0	0.26	mg/L	9987	0.2	1	7/17/2002	8/2/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: *14-Aug-02*

CLIENT: Ninyo & Moore
Lab Order: 057978
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Lab ID: 057978-007A

Client Sample ID: 570-508-0.0
Collection Date: 7/17/2002 9:20:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS	**(EPA 3050A)**			**EPA 6010B**		
RunID: ICP5_020810B	QC Batch: 10213					Analyst: **RQ**
Antimony	ND	2.5		mg/Kg	10	8/10/2002
Arsenic	2.8	2.5		mg/Kg	10	8/10/2002
Barium	110	1.5		mg/Kg	10	8/10/2002
Beryllium	ND	1.5		mg/Kg	10	8/10/2002
Cadmium	ND	1.5		mg/Kg	10	8/10/2002
Chromium	15	1.5		mg/Kg	10	8/10/2002
Cobalt	11	1.5		mg/Kg	10	8/10/2002
Copper	27	1.5		mg/Kg	10	8/10/2002
Molybdenum	ND	2.5		mg/Kg	10	8/10/2002
Nickel	13	1.5		mg/Kg	10	8/10/2002
Selenium	4.5	2.5		mg/Kg	10	8/10/2002
Silver	ND	1.5		mg/Kg	10	8/10/2002
Thallium	ND	2.5		mg/Kg	10	8/10/2002
Vanadium	40	1.5		mg/Kg	10	8/10/2002
Zinc	82	5.0		mg/Kg	10	8/10/2002
MERCURY BY COLD VAPOR TECHNIQUE	**(EPA 7471)**			**EPA 7471A**		
RunID: AA1_020809D	QC Batch: 10167					Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1	8/9/2002

Qualifiers:
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E - Value above quantitation range
Results are wet unless otherwise specified

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Date: *14-Aug-02*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	570-505-1.5
Lab Order:	057978		
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Collection Date:**	7/17/2002 10:15:00 AM
Lab ID:	057978-021A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS						
	(EPA 3050A)			**EPA 6010B**		
RunID: ICP5_020810B	QC Batch: 10213					Analyst: **RQ**
Antimony	ND	2.5		mg/Kg	10	8/10/2002
Arsenic	3.1	2.5		mg/Kg	10	8/10/2002
Barium	240	1.5		mg/Kg	10	8/10/2002
Beryllium	ND	1.5		mg/Kg	10	8/10/2002
Cadmium	2.6	1.5		mg/Kg	10	8/10/2002
Chromium	32	1.5		mg/Kg	10	8/10/2002
Cobalt	11	1.5		mg/Kg	10	8/10/2002
Copper	69	1.5		mg/Kg	10	8/10/2002
Molybdenum	5.5	2.5		mg/Kg	10	8/10/2002
Nickel	32	1.5		mg/Kg	10	8/10/2002
Selenium	11	2.5		mg/Kg	10	8/10/2002
Silver	ND	1.5		mg/Kg	10	8/10/2002
Thallium	ND	2.5		mg/Kg	10	8/10/2002
Vanadium	43	1.5		mg/Kg	10	8/10/2002
Zinc	520	5.0		mg/Kg	10	8/10/2002
MERCURY BY COLD VAPOR TECHNIQUE						
	(EPA 7471)			**EPA 7471A**		
RunID: AA1_020812C	QC Batch: 10168					Analyst: **NS**
Mercury	0.14	0.10		mg/Kg	1	8/12/2002

Qualifiers:

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H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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Date: *14-Aug-02*

CLIENT: Ninyo & Moore
Client Sample ID: 570-812-0.3
Lab Order: 057978
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Collection Date: 7/17/2002 12:18:00 PM
Lab ID: 057978-038A
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS	**(EPA 3050A)**			**EPA 6010B**		
RunID: ICP5_020810B	QC Batch: 10213					Analyst: **RQ**
Antimony	ND	2.5		mg/Kg	10	8/10/2002
Arsenic	3.7	2.5		mg/Kg	10	8/10/2002
Barium	130	1.5		mg/Kg	10	8/10/2002
Beryllium	ND	1.5		mg/Kg	10	8/10/2002
Cadmium	ND	1.5		mg/Kg	10	8/10/2002
Chromium	21	1.5		mg/Kg	10	8/10/2002
Cobalt	15	1.5		mg/Kg	10	8/10/2002
Copper	21	1.5		mg/Kg	10	8/10/2002
Molybdenum	ND	2.5		mg/Kg	10	8/10/2002
Nickel	16	1.5		mg/Kg	10	8/10/2002
Selenium	12	2.5		mg/Kg	10	8/10/2002
Silver	ND	1.5		mg/Kg	10	8/10/2002
Thallium	ND	2.5		mg/Kg	10	8/10/2002
Vanadium	56	1.5		mg/Kg	10	8/10/2002
Zinc	69	5.0		mg/Kg	10	8/10/2002
MERCURY BY COLD VAPOR TECHNIQUE	**(EPA 7471)**			**EPA 7471A**		
RunID: AA1_020812C	QC Batch: 10168					Analyst: **NS**
Mercury	0.14	0.10		mg/Kg	1	8/12/2002

Qualifiers:
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H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: *14-Aug-02*

CLIENT: Ninyo & Moore
Lab Order: 057978
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Lab ID: 057978-055A

Client Sample ID: 570-119-0.6
Collection Date: 7/17/2002 10:02:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS						
	(EPA 3050A)			**EPA 6010B**		
RunID: ICP5_020810B	QC Batch: 10213					Analyst: **RQ**
Antimony	3.5	2.5		mg/Kg	10	8/10/2002
Arsenic	ND	2.5		mg/Kg	10	8/10/2002
Barium	210	1.5		mg/Kg	10	8/10/2002
Beryllium	ND	1.5		mg/Kg	10	8/10/2002
Cadmium	ND	1.5		mg/Kg	10	8/10/2002
Chromium	31	1.5		mg/Kg	10	8/10/2002
Cobalt	21	1.5		mg/Kg	10	8/10/2002
Copper	48	1.5		mg/Kg	10	8/10/2002
Molybdenum	ND	2.5		mg/Kg	10	8/10/2002
Nickel	25	1.5		mg/Kg	10	8/10/2002
Selenium	8.4	2.5		mg/Kg	10	8/10/2002
Silver	ND	1.5		mg/Kg	10	8/10/2002
Thallium	ND	2.5		mg/Kg	10	8/10/2002
Vanadium	77	1.5		mg/Kg	10	8/10/2002
Zinc	140	5.0		mg/Kg	10	8/10/2002
MERCURY BY COLD VAPOR TECHNIQUE						
	(EPA 7471)			**EPA 7471A**		
RunID: AA1_020813F	QC Batch: 10207					Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1	8/13/2002

Qualifiers:

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DO - Surrogate Diluted Out
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H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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Date: 8/15/2002

LEAD BY ATOMIC ABSORPTION
EPA 1311/ 7420

CLIENT: Ninyo & Moore
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Project No:
PO No:

Lab Order: 057978
Date Received: 7/17/2002 5:25:0
Matrix: Soil
Analyst: NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057978-005A	570-509-0.9	0.99	mg/L	10366	0.2	1	7/17/2002	8/15/2002
057978-007A	570-508-0.0	ND	mg/L	10087	0.2	1	7/17/2002	8/6/2002
057978-009A	570-508-0.6	2.4	mg/L	10366	0.2	1	7/17/2002	8/15/2002
057978-012A	570-506-0.0	1.1	mg/L	10366	0.2	1	7/17/2002	8/15/2002
057978-019A	570-505-0.6	2.1	mg/L	10366	0.2	1	7/17/2002	8/15/2002
057978-022A	570-504-0.0	1.9	mg/L	10088	0.2	1	7/17/2002	8/6/2002
057978-024A	570-504-0.6	3.7	mg/L	10367	0.2	1	7/17/2002	8/15/2002
057978-029A	570-503-0.6	0.23	mg/L	10367	0.2	1	7/17/2002	8/15/2002
057978-038A	570-812-0.3	2.9	mg/L	10088	0.2	1	7/17/2002	8/6/2002
057978-046A	570-301-0	1.3	mg/L	10367	0.2	1	7/17/2002	8/15/2002
057978-053A	570-119-0	0.92	mg/L	10367	0.2	1	7/17/2002	8/15/2002

Qualifiers:
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J - Analyte detected below quantitation limits
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DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
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Advanced Technology Laboratories

Date: 8/15/2002

LEAD BY ATOMIC ABSORPTION
EPA 1311/ 7420

CLIENT:	Ninyo & Moore	**Lab Order:**	057978
Project:	Caltrans/I-10(605-57)/Lead Survey TO 07-1170	**Date Received:**	7/17/2002 5:25:0
Project No:		**Matrix:**	Soil
PO No:		**Analyst:**	NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
057978-054A	570-119-0.3	3.0	mg/L	10088	0.2	1	7/17/2002	8/6/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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Date: *15-Aug-02*

CLIENT: Ninyo & Moore
Lab Order: 057978
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170
Lab ID: 057978-024A

Client Sample ID: 570-504-0.6
Collection Date: 7/17/2002 10:25:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
LEAD BY ICP	**(EPA 3050M)**			**EPA 6010B**		
RunID: ICP2_020814E	QC Batch: 10251					Analyst: **RQ**
Lead	1100	5.0		mg/Kg	1	8/14/2002
Lead	75	5.0		mg/Kg	1	7/23/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: *15-Aug-02*

CLIENT: Ninyo & Moore
Work Order: 057978
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10087

Sample ID: **MB-10087** SampType: **mblk** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806H**
Client ID: **ZZZZZ** Batch ID: **10087** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314602**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-10078-TCLP** SampType: **mblk** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806H**
Client ID: **ZZZZZ** Batch ID: **10087** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314603**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-10087** SampType: **lcs** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806H**
Client ID: **ZZZZZ** Batch ID: **10087** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314617**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.184	0.20	1	0	118	80	120	0	0		

Sample ID: **057978-007AMS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806H**
Client ID: **570-508-0.0** Batch ID: **10087** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314615**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.241	0.20	2.717	0.09022	116	80	120	0	0		

Sample ID: **057978-007ADUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806H**
Client ID: **570-508-0.0** Batch ID: **10087** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314614**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20	0	0	0	0	0	0.09022	0	30	

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 10088

Sample ID: **MB-10088** SampType: **mblk** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806I**
Client ID: **ZZZZZ** Batch ID: **10088** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314618**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-10079-TCLP** SampType: **mblk** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806I**
Client ID: **ZZZZZ** Batch ID: **10088** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314619**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-10088** SampType: **lcs** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806I**
Client ID: **ZZZZZ** Batch ID: **10088** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314633**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.169	0.20	1	0	117	80	120	0	0		

Sample ID: **057998-027AMS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806I**
Client ID: **ZZZZZ** Batch ID: **10088** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314631**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	6.157	0.20	2.5	3.691	98.7	80	120	0	0		

Sample ID: **057998-027ADUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/5/2002** Run ID: **AA2_020806I**
Client ID: **ZZZZZ** Batch ID: **10088** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/6/2002** SeqNo: **314630**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.031	0.20	0	0	0	0	0	3.691	19.6	30	

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ANALYTICAL QC SUMMARY REPORT

BatchID: 10167

Sample ID: **MB-10167** SampType: **mblk** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809D**
Client ID: **ZZZZZ** Batch ID: **10167** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316751**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: **LCS-10167** SampType: **lcs** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809D**
Client ID: **ZZZZZ** Batch ID: **10167** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316750**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.232	0.10	2.08	0	107	80	120	0	0		

Sample ID: **057978-007AMS** SampType: **MS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809D**
Client ID: **570-508-0.0** Batch ID: **10167** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316748**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.9805	0.10	0.83	0.03622	114	62	146	0	0		

Sample ID: **057978-007AMSD** SampType: **MSD** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809D**
Client ID: **570-508-0.0** Batch ID: **10167** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316749**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.9802	0.10	0.83	0.03622	114	62	146	0.9805	0.0281	33	

Sample ID: **057978-007ADUP** SampType: **DUP** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020809D**
Client ID: **570-508-0.0** Batch ID: **10167** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/9/2002** SeqNo: **316747**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.03011	0.10	0	0	0	0	0	0.03622	0	30	J

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ANALYTICAL QC SUMMARY REPORT

BatchID: 10168

Sample ID: **MB-10168** SampType: **MBLK** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020812C**
Client ID: **ZZZZZ** Batch ID: **10168** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/12/2002** SeqNo: **316983**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: **LCS-10168** SampType: **LCS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020812C**
Client ID: **ZZZZZ** Batch ID: **10168** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/12/2002** SeqNo: **316982**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.032	0.10	2.08	0	97.7	80	120	0	0		

Sample ID: **057999-016AMS** SampType: **MS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020812C**
Client ID: **ZZZZZ** Batch ID: **10168** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/12/2002** SeqNo: **316980**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.9936	0.10	0.83	0.05175	113	62	146	0	0		

Sample ID: **057999-016AMSD** SampType: **MSD** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020812C**
Client ID: **ZZZZZ** Batch ID: **10168** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/12/2002** SeqNo: **316981**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.9878	0.10	0.83	0.05175	113	62	146	0.9936	0.582	33	

Sample ID: **057999-016ADUP** SampType: **DUP** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020812C**
Client ID: **ZZZZZ** Batch ID: **10168** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/12/2002** SeqNo: **316979**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.0746	0.10	0	0	0	0	0	0.05175	0	30	J

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ANALYTICAL QC SUMMARY REPORT

BatchID: 10207

Sample ID: **MB-10207** SampType: **mblk** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020813F**
Client ID: **ZZZZZ** Batch ID: **10207** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/13/2002** SeqNo: **318517**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: **LCS-10207** SampType: **lcs** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020813F**
Client ID: **ZZZZZ** Batch ID: **10207** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/13/2002** SeqNo: **318516**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.081	0.10	2.08	0	100	80	120	0	0		

Sample ID: **058021-054AMS** SampType: **MS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020813F**
Client ID: **ZZZZZ** Batch ID: **10207** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/13/2002** SeqNo: **318514**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.9716	0.10	0.83	0.0326	113	62	146	0	0		

Sample ID: **058021-054AMSD** SampType: **MSD** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020813F**
Client ID: **ZZZZZ** Batch ID: **10207** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/13/2002** SeqNo: **318515**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.935	0.10	0.83	0.0326	109	62	146	0.9716	3.84	33	

Sample ID: **058021-054ADUP** SampType: **DUP** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **8/7/2002** Run ID: **AA1_020813F**
Client ID: **ZZZZZ** Batch ID: **10207** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **8/13/2002** SeqNo: **318513**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10	0	0	0	0	0	0.0326	0	30	

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ANALYTICAL QC SUMMARY REPORT

BatchID: 10213

Sample ID: **MB-10213** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP5_020810B**
Client ID: **ZZZZZ** Batch ID: **10213** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316634**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.1049	0.25									J
Arsenic	0.01134	0.25									J
Barium	ND	0.15									
Beryllium	0.001497	0.15									J
Cadmium	ND	0.15									
Chromium	ND	0.15									
Cobalt	0.008285	0.15									J
Copper	ND	0.15									
Molybdenum	0.03155	0.25									J
Nickel	0.02092	0.15									J
Selenium	ND	0.25									
Silver	0.04761	0.15									J
Thallium	0.1615	0.25									J
Vanadium	ND	0.15									
Zinc	0.2176	0.50									J

Sample ID: **LCS-10213** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP5_020810B**
Client ID: **ZZZZZ** Batch ID: **10213** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316633**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	47.62	0.25	50	0	95.2	80	120	0	0		
Arsenic	51.84	0.25	50	0	104	80	120	0	0		
Barium	48.27	0.15	50	0	96.5	80	120	0	0		
Beryllium	47.2	0.15	50	0	94.4	80	120	0	0		
Cadmium	48.14	0.15	50	0	96.3	80	120	0	0		
Chromium	47.49	0.15	50	0	95	80	120	0	0		
Cobalt	47.79	0.15	50	0	95.6	80	120	0	0		
Copper	46.09	0.15	50	0	92.2	80	120	0	0		
Molybdenum	49.16	0.25	50	0	98.3	80	120	0	0		
Nickel	46.3	0.15	50	0	92.6	80	120	0	0		

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ANALYTICAL QC SUMMARY REPORT

BatchID: 10213

Sample ID: **LCS-10213** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP5_020810B**
Client ID: **ZZZZZ** Batch ID: **10213** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316633**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	51.76	0.25	50	0	104	80	120	0	0		
Silver	46.17	0.15	50	0	92.3	80	120	0	0		
Thallium	49.01	0.25	50	0	98	80	120	0	0		
Vanadium	48.51	0.15	50	0	97	80	120	0	0		
Zinc	52.5	0.50	50	0	105	80	120	0	0		

Sample ID: **057997-003AMS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP5_020810B**
Client ID: **ZZZZZ** Batch ID: **10213** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316630**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	79.9	2.5	125	2.788	61.7	32	115	0	0		
Arsenic	127.7	2.5	125	1.548	101	59	111	0	0		
Barium	257.1	1.5	125	117.9	111	34	151	0	0		
Beryllium	121.5	1.5	125	0	97.2	56	112	0	0		
Cadmium	127.6	1.5	125	0.3295	102	52	120	0	0		
Chromium	148.3	1.5	125	20.21	102	56	118	0	0		
Cobalt	143	1.5	125	15.43	102	58	117	0	0		
Copper	147.5	1.5	125	20.79	101	58	134	0	0		
Molybdenum	120.5	2.5	125	0.08681	96.4	56	115	0	0		
Nickel	142.3	1.5	125	16.95	100	52	120	0	0		
Selenium	140.4	2.5	125	5.02	108	46	108	0	0		S
Silver	114.4	1.5	125	0	91.5	74	117	0	0		
Thallium	114.6	2.5	125	0	91.7	62	117	0	0		
Vanadium	193.1	1.5	125	60.22	106	55	122	0	0		
Zinc	197.5	5.0	125	61.86	109	43	134	0	0		

Sample ID: **057997-003AMSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP5_020810B**
Client ID: **ZZZZZ** Batch ID: **10213** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316631**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
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Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10213

Sample ID: **057997-003AMSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP5_020810B**
Client ID: **ZZZZZ** Batch ID: **10213** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316631**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	80.18	2.5	125	2.788	61.9	32	115	79.9	0.348	20	
Arsenic	125.9	2.5	125	1.548	99.5	59	111	127.7	1.42	20	
Barium	244.9	1.5	125	117.9	102	34	151	257.1	4.87	20	
Beryllium	118.2	1.5	125	0	94.5	56	112	121.5	2.79	20	
Cadmium	127.4	1.5	125	0.3295	102	52	120	127.6	0.121	20	
Chromium	143.8	1.5	125	20.21	98.9	56	118	148.3	3.04	20	
Cobalt	142.2	1.5	125	15.43	101	58	117	143	0.570	20	
Copper	142.8	1.5	125	20.79	97.6	58	134	147.5	3.23	20	
Molybdenum	121.1	2.5	125	0.08681	96.8	56	115	120.5	0.434	20	
Nickel	140.8	1.5	125	16.95	99.1	52	120	142.3	1.04	20	
Selenium	134.4	2.5	125	5.02	104	46	108	140.4	4.35	20	
Silver	103.4	1.5	125	0	82.7	74	117	114.4	10.1	20	
Thallium	113.3	2.5	125	0	90.6	62	117	114.6	1.17	20	
Vanadium	184.2	1.5	125	60.22	99.2	55	122	193.1	4.72	20	
Zinc	192.3	5.0	125	61.86	104	43	134	197.5	2.66	20	

Sample ID: **057997-003ADUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP5_020810B**
Client ID: **ZZZZZ** Batch ID: **10213** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316629**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	2.811	2.5	0	0	0	0	0	2.788	0.832	30	
Arsenic	0.1834	2.5	0	0	0	0	0	1.548	0	30	J
Barium	126.8	1.5	0	0	0	0	0	117.9	7.31	30	
Beryllium	ND	1.5	0	0	0	0	0	0	0	30	
Cadmium	0.3828	1.5	0	0	0	0	0	0.3295	0	30	J
Chromium	21.21	1.5	0	0	0	0	0	20.21	4.85	30	
Cobalt	16.27	1.5	0	0	0	0	0	15.43	5.30	30	
Copper	22	1.5	0	0	0	0	0	20.79	5.65	30	
Molybdenum	ND	2.5	0	0	0	0	0	0.08681	0	30	
Nickel	18.08	1.5	0	0	0	0	0	16.95	6.49	30	

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; S - Spike/Surrogate outside limits due to matrix interference; B - Analyte detected in the associated Method Blank; **Calculations are based on raw values**; DO - Surrogate diluted out; H - Sample exceeded holding time

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CLIENT: Ninyo & Moore
Work Order: 057978
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 10213

Sample ID: **057997-003ADUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/8/2002** Run ID: **ICP5_020810B**
Client ID: **ZZZZZ** Batch ID: **10213** TestNo: **EPA 6010B** **(EPA 3050A)** Analysis Date: **8/10/2002** SeqNo: **316629**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	0.8151	2.5	0	0	0	0	0	5.02	0	30	J
Silver	ND	1.5	0	0	0	0	0	0	0	30	
Thallium	ND	2.5	0	0	0	0	0	0	0	30	
Vanadium	62.37	1.5	0	0	0	0	0	60.22	3.51	30	
Zinc	66.48	5.0	0	0	0	0	0	61.86	7.21	30	

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 10251

Sample ID: **MB-10251** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **8/13/2002** Run ID: **ICP2_020814E**
Client ID: **ZZZZZ** Batch ID: **10251** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **8/14/2002** SeqNo: **318640**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-10251** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **8/13/2002** Run ID: **ICP2_020814E**
Client ID: **ZZZZZ** Batch ID: **10251** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **8/14/2002** SeqNo: **318641**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	246	5.0	250	0	98.4	80	120	0	0		

Sample ID: **058066-007AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **8/13/2002** Run ID: **ICP2_020814E**
Client ID: **ZZZZZ** Batch ID: **10251** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **8/14/2002** SeqNo: **318650**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	262.5	5.0	250	379	-46.6	47	128	0	0		S

Sample ID: **058066-007ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **8/13/2002** Run ID: **ICP2_020814E**
Client ID: **ZZZZZ** Batch ID: **10251** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **8/14/2002** SeqNo: **318649**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	55.5	5.0	0	0	0	0	0	379	149	30	R

Qualifiers:
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DO - Surrogate diluted out
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ANALYTICAL QC SUMMARY REPORT

BatchID: 10366

Sample ID: **MB-10366** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/14/2002** Run ID: **AA2_020814Z**
Client ID: **ZZZZZ** Batch ID: **10366** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/15/2002** SeqNo: **319079**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-10275-TCLP** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/14/2002** Run ID: **AA2_020814Z**
Client ID: **ZZZZZ** Batch ID: **10366** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/15/2002** SeqNo: **319080**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-10366** SampType: **LCS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/14/2002** Run ID: **AA2_020814Z**
Client ID: **ZZZZZ** Batch ID: **10366** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/15/2002** SeqNo: **319094**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.118	0.20	1	0	112	80	120	0	0		

Sample ID: **057978-019AMS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/14/2002** Run ID: **AA2_020814Z**
Client ID: **570-505-0.6** Batch ID: **10366** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/15/2002** SeqNo: **319092**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.69	0.20	3.125	2.135	81.8	80	120	0	0		

Sample ID: **057978-019ADUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/14/2002** Run ID: **AA2_020814Z**
Client ID: **570-505-0.6** Batch ID: **10366** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/15/2002** SeqNo: **319091**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.943	0.20	0	0	0	0	0	2.135	9.40	30	

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ANALYTICAL QC SUMMARY REPORT

BatchID: 10367

Sample ID: **MB-10367** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/14/2002** Run ID: **AA2_020814[**
Client ID: **ZZZZZ** Batch ID: **10367** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/15/2002** SeqNo: **319095**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.07683	0.20									

Sample ID: **MB-10276-TCLP** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/14/2002** Run ID: **AA2_020814[**
Client ID: **ZZZZZ** Batch ID: **10367** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/15/2002** SeqNo: **319096**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-10367** SampType: **LCS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/14/2002** Run ID: **AA2_020814[**
Client ID: **ZZZZZ** Batch ID: **10367** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/15/2002** SeqNo: **319110**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.193	0.20	1	0	119	80	120	0	0		

Sample ID: **057998-015AMS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/14/2002** Run ID: **AA2_020814[**
Client ID: **ZZZZZ** Batch ID: **10367** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/15/2002** SeqNo: **319108**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	6.624	0.20	3.125	3.625	95.9	80	120	0	0		

Sample ID: **057998-015ADUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/14/2002** Run ID: **AA2_020814[**
Client ID: **ZZZZZ** Batch ID: **10367** TestNo: **EPA 1311/ 74 (EPA 3010A)** Analysis Date: **8/15/2002** SeqNo: **319107**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.587	0.20	0	0	0	0	0	3.625	1.07	30	

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ANALYTICAL QC SUMMARY REPORT

BatchID: 9691

Sample ID: **MB-9691A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723F**
Client ID: **ZZZZZ** Batch ID: **9691** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **304247**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **MB-9691B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723F**
Client ID: **ZZZZZ** Batch ID: **9691** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **304248**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-9691** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723F**
Client ID: **ZZZZZ** Batch ID: **9691** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **304246**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	229.7	5.0	250	0	91.9	80	120	0	0		

Sample ID: **057977-023AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723F**
Client ID: **ZZZZZ** Batch ID: **9691** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **304232**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	202.6	5.0	250	5.459	78.9	47	128	0	0		

Sample ID: **057978-006AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723F**
Client ID: **570-509-1.5** Batch ID: **9691** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **304244**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	218.9	5.0	250	4.91	85.6	47	128	0	0		

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9691

Sample ID: **057977-023ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723F**
Client ID: **ZZZZZ** Batch ID: **9691** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **304231**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	9.641	5.0	0	0	0	0	0	5.459	55.4	30	R

Sample ID: **057978-006ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723F**
Client ID: **570-509-1.5** Batch ID: **9691** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **304243**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	29.83	5.0	0	0	0	0	0	4.91	143	30	R

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; S - Spike/Surrogate outside limits due to matrix interference; B - Analyte detected in the associated Method Blank; **Calculations are based on raw values**; DO - Surrogate diluted out; H - Sample exceeded holding time

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ANALYTICAL QC SUMMARY REPORT

BatchID: 9692

Sample ID: **MB-9692A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723G**
Client ID: **ZZZZZ** Batch ID: **9692** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **304276**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **MB-9692B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723G**
Client ID: **ZZZZZ** Batch ID: **9692** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **304277**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-9692** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723G**
Client ID: **ZZZZZ** Batch ID: **9692** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **304275**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	237.4	5.0	250	0	95	80	120	0	0		

Sample ID: **057978-016AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723G**
Client ID: **570-506-1.5** Batch ID: **9692** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **304261**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	229.5	5.0	250	20.33	83.7	47	128	0	0		

Sample ID: **057978-026AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723G**
Client ID: **570-504-1.5** Batch ID: **9692** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **304273**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	235.2	5.0	250	32.34	81.1	47	128	0	0		

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9692

Sample ID: **057978-016ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723G**
Client ID: **570-506-1.5** Batch ID: **9692** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **304260**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	33.5	5.0	0	0	0	0	0	20.33	48.9	30	R

Sample ID: **057978-026ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723G**
Client ID: **570-504-1.5** Batch ID: **9692** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **304272**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	26.62	5.0	0	0	0	0	0	32.34	19.4	30	

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9693

Sample ID: **MB-9693A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723H**
Client ID: **ZZZZZ** Batch ID: **9693** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **304305**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **MB-9693B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723H**
Client ID: **ZZZZZ** Batch ID: **9693** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **304306**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-9693** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723H**
Client ID: **ZZZZZ** Batch ID: **9693** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **304304**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	222.8	5.0	250	0	89.1	80	120	0	0		

Sample ID: **057978-027AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723H**
Client ID: **570-503-0.0** Batch ID: **9693** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **304280**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	243.4	5.0	250	72.49	68.4	47	128	0	0		

Sample ID: **057978-037AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723H**
Client ID: **570-812-0.0** Batch ID: **9693** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **304293**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	156.5	5.0	250	16.97	55.8	47	128	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

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ANALYTICAL QC SUMMARY REPORT

BatchID: 9693

Sample ID: **057978-027ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723H**
Client ID: **570-503-0.0** Batch ID: **9693** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **304279**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	33.9	5.0	0	0	0	0	0	72.49	72.6	30	R

Sample ID: **057978-037ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723H**
Client ID: **570-812-0.0** Batch ID: **9693** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **304292**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	13.04	5.0	0	0	0	0	0	16.97	26.2	30	

Qualifiers:
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Calculations are based on raw values
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BatchID: 9694

Sample ID: **MB-9694A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723I**
Client ID: **ZZZZZ** Batch ID: **9694** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **304341**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-9694** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723I**
Client ID: **ZZZZZ** Batch ID: **9694** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **304340**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	239.3	5.0	250	0	95.7	80	120	0	0		

Sample ID: **057978-055AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723I**
Client ID: **570-119-0.6** Batch ID: **9694** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **304338**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	275.4	5.0	250	55.88	87.8	47	128	0	0		

Sample ID: **057978-055ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/19/2002** Run ID: **ICP5_020723I**
Client ID: **570-119-0.6** Batch ID: **9694** TestNo: **EPA 6010B** **(EPA 3050M)** Analysis Date: **7/23/2002** SeqNo: **304337**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	96.75	5.0	0	0	0	0	0	55.88	53.5	30	R

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BatchID: 9745

Sample ID: **MB-9745** SampType: **MBLK** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/22/2002** Run ID: **ICP2_020723B**
Client ID: **ZZZZZ** Batch ID: **9745** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/23/2002** SeqNo: **303590**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.0050									

Sample ID: **LCS-9745** SampType: **LCS** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/22/2002** Run ID: **ICP2_020723B**
Client ID: **ZZZZZ** Batch ID: **9745** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/23/2002** SeqNo: **303591**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.96	0.0050	1	0	96	80	120	0	0		

Sample ID: **057999-001AMS** SampType: **MS** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/22/2002** Run ID: **ICP2_020723B**
Client ID: **ZZZZZ** Batch ID: **9745** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/23/2002** SeqNo: **303603**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.54	0.0050	2.5	0	102	66	118	0	0		

Sample ID: **057999-001ADUP** SampType: **DUP** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **7/22/2002** Run ID: **ICP2_020723B**
Client ID: **ZZZZZ** Batch ID: **9745** TestNo: **EPA 6010B** **(EPA 3010A)** Analysis Date: **7/23/2002** SeqNo: **303602**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.0050	0	0	0	0	0	0	0	30	

Qualifiers: ND - Not Detected at the Reporting Limit
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BatchID: 9899

Sample ID: **MB-9899** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020730A**
Client ID: **ZZZZZ** Batch ID: **9899** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/30/2002** SeqNo: **309614**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9899A** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020730A**
Client ID: **ZZZZZ** Batch ID: **9899** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/30/2002** SeqNo: **309615**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9899B** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020730A**
Client ID: **ZZZZZ** Batch ID: **9899** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/30/2002** SeqNo: **309628**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-9899** SampType: **LCS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020730A**
Client ID: **ZZZZZ** Batch ID: **9899** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/30/2002** SeqNo: **309642**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.422	0.20	7.5	0	99	80	120	0	0		

Sample ID: **057977-012AMS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020730A**
Client ID: **ZZZZZ** Batch ID: **9899** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/30/2002** SeqNo: **309627**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.963	0.20	5	1.424	90.8	80	120	0	0		

Qualifiers:
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BatchID: 9899

Sample ID: **057978-009AMS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020730A**
Client ID: **570-508-0.6** Batch ID: **9899** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/30/2002** SeqNo: **309640**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	161.2	4.0	100	59.83	101	80	120	0	0		

Sample ID: **057977-012ADUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020730A**
Client ID: **ZZZZZ** Batch ID: **9899** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/30/2002** SeqNo: **309626**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.256	0.20	0	0	0	0	0	1.424	12.6	30	

Sample ID: **057978-009ADUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020730A**
Client ID: **570-508-0.6** Batch ID: **9899** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/30/2002** SeqNo: **309639**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	64.91	2.0	0	0	0	0	0	59.83	8.15	30	

Qualifiers:
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ANALYTICAL QC SUMMARY REPORT

BatchID: 9900

Sample ID: **MB-9900** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020730B**
Client ID: **ZZZZZ** Batch ID: **9900** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/30/2002** SeqNo: **309780**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9900A** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020730B**
Client ID: **ZZZZZ** Batch ID: **9900** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/30/2002** SeqNo: **309781**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9900B** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020730B**
Client ID: **ZZZZZ** Batch ID: **9900** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/30/2002** SeqNo: **309794**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.07905	0.20									

Sample ID: **LCS-9900** SampType: **LCS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020730B**
Client ID: **ZZZZZ** Batch ID: **9900** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/30/2002** SeqNo: **309805**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.413	0.20	7.5	0	98.8	80	120	0	0		

Sample ID: **057978-034AMS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020730B**
Client ID: **570-317-0.6** Batch ID: **9900** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/30/2002** SeqNo: **309793**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	9.601	0.20	5	4.68	98.4	80	120	0	0		

Qualifiers:
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BatchID: 9900

Sample ID: **057978-055AMS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/30/2002** Run ID: **AA2_020730B**
Client ID: **570-119-0.6** Batch ID: **9900** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/30/2002** SeqNo: **309803**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.478	0.20	5	2.423	101	80	120	0	0		

Sample ID: **057978-034ADUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020730B**
Client ID: **570-317-0.6** Batch ID: **9900** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/30/2002** SeqNo: **309792**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.65	0.20	0	0	0	0	0	4.68	24.7	30	

Sample ID: **057978-055ADUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **7/26/2002** Run ID: **AA2_020730B**
Client ID: **570-119-0.6** Batch ID: **9900** TestNo: **WET/ EPA 74 (WET)** Analysis Date: **7/30/2002** SeqNo: **309802**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.622	0.20	0	0	0	0	0	2.423	39.7	30	R

Qualifiers:
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BatchID: 9986

Sample ID: **MB-9986** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802O**
Client ID: **ZZZZZ** Batch ID: **9986** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312574**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9986A** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/31/2002** Run ID: **AA2_020802O**
Client ID: **ZZZZZ** Batch ID: **9986** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312575**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9986B** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/31/2002** Run ID: **AA2_020802O**
Client ID: **ZZZZZ** Batch ID: **9986** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312588**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **LCS-9986** SampType: **LCS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802O**
Client ID: **ZZZZZ** Batch ID: **9986** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312602**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.522	0.20	7.5	0	100	80	120	0	0		

Sample ID: **057977-006AMS** SampType: **MS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802O**
Client ID: **ZZZZZ** Batch ID: **9986** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312587**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.313	0.20	5	0.07351	105	80	120	0	0		

Qualifiers:
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BatchID: 9986

Sample ID: **057978-009AMSD** SampType: **MSD** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802O**
Client ID: **570-508-0.6** Batch ID: **9986** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312601**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.498	0.20	5	0.2267	105	80	120	5.382	2.13	20	

Sample ID: **057977-006ADUP** SampType: **DUP** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/31/2002** Run ID: **AA2_020802O**
Client ID: **ZZZZZ** Batch ID: **9986** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312586**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.08167	0.20	0	0	0	0	0	0.07351	0	30	J

Sample ID: **057978-009ADUP** SampType: **DUP** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/31/2002** Run ID: **AA2_020802O**
Client ID: **570-508-0.6** Batch ID: **9986** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312599**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.2293	0.20	0	0	0	0	0	0.2267	1.14	30	

Qualifiers:
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CLIENT: Ninyo & Moore
Work Order: 057978
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: 9987

Sample ID: **MB-9987** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802N**
Client ID: **ZZZZZ** Batch ID: **9987** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312558**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID: **MB-9987A** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/31/2002** Run ID: **AA2_020802N**
Client ID: **ZZZZZ** Batch ID: **9987** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312559**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.06213	0.20									

Sample ID: **LCS-9987** SampType: **LCS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802N**
Client ID: **ZZZZZ** Batch ID: **9987** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312573**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.629	0.20	7.5	0	102	80	120	0	0		

Sample ID: **057978-053AMS** SampType: **MS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **8/2/2002** Run ID: **AA2_020802N**
Client ID: **570-119-0** Batch ID: **9987** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312571**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.436	0.20	5	0.255	104	80	120	0	0		

Sample ID: **057978-053ADUP** SampType: **DUP** TestCode: **7420_DI** Units: **mg/L** Prep Date: **7/31/2002** Run ID: **AA2_020802N**
Client ID: **570-119-0** Batch ID: **9987** TestNo: **WET DI/ EPA (WET)** Analysis Date: **8/2/2002** SeqNo: **312570**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.2141	0.20	0	0	0	0	0	0.255	17.5	30	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Ninyo & Moore
Work Order: 057978
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: R19675

Sample ID: **057978-042A-DUP** SampType: **DUP** TestCode: **9045_S** Units: **pH Units** Prep Date: **7/23/2002** Run ID: **WETCHEM_020723D**
Client ID: **570-813-0.0** Batch ID: **R19675** TestNo: **EPA 9045C** Analysis Date: **7/23/2002** SeqNo: **303806**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	8.126	0.10	0	0	0	0	0	8.187	0.748	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Ninyo & Moore
Work Order: 057978
Project: Caltrans/I-10(605-57)/Lead Survey TO 07-1170

ANALYTICAL QC SUMMARY REPORT

BatchID: R19676

Sample ID: **057997-033ADUP** SampType: **DUP** TestCode: **9045_S** Units: **pH Units** Prep Date: **7/23/2002** Run ID: **WETCHEM_020723E**
Client ID: **ZZZZZ** Batch ID: **R19676** TestNo: **EPA 9045C** Analysis Date: **7/23/2002** SeqNo: **303820**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.85	0.10	0	0	0	0	0	7.834	0.204	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike/Surrogate outside limits due to matrix interference
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate diluted out
H - Sample exceeded holding time

Rachelle

From: Steve Reese [sreese@ninyoandmoore.com]
Sent: Wednesday, July 31, 2002 9:27 AM
To: 'rachelle@atlglobal.com'
Cc: David Shaler (E-mail); Ruth Cheung (E-mail)
Subject: TCLP Analysis

TCLP.xls

Rachelle,
Attached please find a list of samples to be run for the TCLP analysis. Currently, we selected all of the samples that are greater than 1,000 mg/kg
of TTLC results. However, they will be ran by instruction only. There may
be more samples chosen for TCLP analysis in the future, but please run these 82 samples for now. Please call with any questions.
Thank you, Steve

Stephen S. Reese
Senior Staff Environmental Scientist
Ninyo & Moore Geotechnical & Environmental Sciences Consultants
475 Goddard, Suite 200
Irvine, California 92618
Tel: (949) 753-7070
Fax: (949) 753-7071
Email: sreese@ninyoandmoore.com
www.ninyoandmoore.com

RUN FOR TCLP ANALYSIS			
33	20	29	82
569-101-0	570-101-0	571-104-0	
569-102-0	570-101-0.6	571-120-0	
569-102-0.3	570-102-0.6	571-310-0.9	
569-102-0.9	570-103-1.5	571-317-0	
569-111-0	570-114-0.6	571-320-0	
569-112-0	570-115-0	571-325-0.6	
569-112-0.6	570-119-0.3	571-507-0	
569-201-0	570-201-0	571-511-0	
569-212-0	570-214-0	571-514-0	
569-301-0	570-311-0.6	571-524-0	
569-303-0.9	570-312-0.6	571-710-0	
569-314-0	570-504-0	571-710-0.3	
569-401-0	570-508-0	571-711-0	
569-404-0.6	570-517-0	571-711-0.3	
569-405-0.6	570-517-0.3	571-712-0	
569-408-0.9	570-610-0.6	571-712-0.3	
569-502-0.6	570-615-0	571-201-0.6	
569-516-0	570-706-0	571-405-0	
569-603-0.3	570-709-0	571-406-0	
569-607-0	570-808-0.6	571-407-0	
569-607-0.3		571-414-0	
569-609-0		571-609-0	
569-609-0.3		571-611-0	
569-703-0		571-616-0	
569-703-0.9		571-617-0	
569-705-0		571-619-1.5	
569-705-0.3		571-814-0.3	
569-706-0		571-818-0.6	
569-708-0		571-819-0	
569-710-0			
569-711-0			
569-711-0.3			
569-801-0.3			

Rachelle

From: Steve Reese [sreese@ninyoandmoore.com]
Sent: Wednesday, July 31, 2002 3:04 PM
To: Rachelle@Advanced Labs (E-mail)
Cc: David Shaler (E-mail); Ruth Cheung (E-mail)
Subject: More TCLP Analyses

TCLP-2.xls

Rachelle,
Attached please find a list of 8 more TCLP analyses. Thanks, Steve

Stephen S. Reese
Senior Staff Environmental Scientist
Ninyo & Moore Geotechnical & Environmental Sciences Consultants
475 Goddard, Suite 200
Irvine, California 92618
Tel: (949) 753-7070
Fax: (949) 753-7071
Email: sreese@ninyoandmoore.com
www.ninyoandmoore.com

RUN FOR TCLP ANALYSIS			
1	5	2	8
569-805-0.3	570-113-0.3	571-214-0.3	
	570-712-0.6	571-618-0.9	
	570-208-0		
	570-804-0		
	570-812-0.3		

Rachelle

From: Ruth Cheung [rcheung@ninyoandmoore.com]
Sent: Tuesday, August 06, 2002 3:46 PM
To: 'Rachelle'; 'David Shaler (E-mail)'
Subject: Title 22 Metals

Title 22 Metals.xls

Rachelle,
Please run the following samples for Title 22 Metals. Please do not list
Pb in your emailed results. There should be a total of 120 samples to be
run.
Thanks.

Ruth L. Cheung
Staff Environmental Scientist
Ninyo & Moore
(949) 753-7070 x2273

569-102-0.9	570-101-0	571-101-0.9
569-112-0	570-101-0.6	571-104-0
569-201-0	570-201-0	571-201-0.6
569-206-0.6	570-205-0.9	571-108-1.5
569-106-1.5	570-106-0.3	571-111-0.3
569-212-0	570-208-1.5	571-207-0
569-401-0.6	570-111-0.6	571-210-0.6
569-301-0	570-214-0	571-115-0.9
569-303-0.9	570-115-0.3	571-214-0.3
569-404-0.6	570-119-0.9	571-120-0
569-408-0.9	570-224-0.6	571-217-1.5
569-314-0	570-401-0	571-220-0.6
569-313-0.3	570-401-0.3	571-301-0.3
569-502-0.6	570-304-1.5	571-405-0
569-602-1.5	570-307-0.9	571-306-0.9
569-607-0.3	570-311-0.6	571-407-0
569-607-0	570-312-0.6	571-310-0.9
569-508-0.9	570-316-0.3	571-315-0.3
569-511-0.6	570-601-0	571-412-1.5
569-612-1.5	570-505-1.5	571-317-0
569-516-0	570-508-0	571-320-0.6
569-801-0.3	570-610-0.6	571-416-0.9
569-519-0.6	570-511-0.9	571-325-0.3
569-803-0.9	570-615-0	571-421-1.5
569-705-0	570-514-0.3	571-425-0
569-806-1.5	570-517-0	571-501-0.6
569-708-0.3	570-618-0.6	571-503-0.9
569-711-0	570-621-1.5	571-603-0.3
569-811-0	570-703-0.9	571-507-0
	570-804-0	571-609-0
	570-706-0	571-510-1.5
	570-709-0	571-611-0
	570-808-0.6	571-514-0
	570-711-1.5	571-614-0.3
	570-812-0.3	571-517-0.9
		571-617-0.6
		571-520-1.5
		571-621-0.3
		571-524-0
		571-624-0.9
		571-529-0.3
		571-628-0.6
		571-703-1.5
		571-707-0
		571-804-0.9
		571-809-0.3
		571-711-0
		571-712-0
		571-814-0.3
		571-818-0.6
		571-819-0
		571-827-1.5

571-832-0.9
571-836-0.3
571-837-0.6
571-842-0

Rachelle

From: Ruth Cheung [rcheung@ninyoandmoore.com]
Sent: Wednesday, August 07, 2002 10:28 AM
To: 'Rachelle'
Subject: RE: Title 22 Metals

Sorry for the mistake. Please change to the following:
569-602-1.5 to 0.6
569-803-0.9 to 0.6
571-217-1.5 to 0.6
571-320-0.6 to 0
571-421-1.5 to 0
571-503-0.9 to 0.6
571-510-1.5 to 0.6
571-520-1.5 to 0
571-703-1.5 to 0.6
571-804-0.9 to 0.6
571-827-1.5 to 0.3
571-837-0.6 to 0.3
570-119-0.9 to 0.6
570-208-1.5 to 0.3
570-621-1.5 to 0.3
570-703-0.9 to 0.3

thanks.

Ruth L. Cheung
Staff Environmental Scientist
Ninyo & Moore
(949) 753-7070 x2273

-----Original Message-----
From: Rachelle [SMTP:Rachelle@ATLGlobal.com]
Sent: Wednesday, August 07, 2002 9:49 AM
To: 'Ruth Cheung'
Subject: RE: Title 22 Metals

Hi Ruth,
Please check if the following samples exist, I don't see it on our database:
569-602-1.5
569-803-0.9
571-217-1.5
571-320-0.6
571-421-1.5
571-503-0.9
571-510-1.5
571-520-1.5
571-703-1.5
571-804-0.9
571-827-1.5
571-837-0.6
570-119-0.9
570-208-1.5
570-621-1.5
570-703-0.9
If it does exist, can you let me know when it was collected so I can track
them.
Thanks,
Rachelle
-----Original Message-----
From: Ruth Cheung [mailto:rcheung@ninyoandmoore.com]

Sent: Tuesday, August 06, 2002 3:46 PM
To: 'Rachelle'; 'David Shaler (E-mail)'
Subject: Title 22 Metals

Rachelle,
Please run the following samples for Title 22 Metals. Please do not list
Pb in your emailed results. There should be a total of 120 samples to be
run.
Thanks.

Ruth L. Cheung
Staff Environmental Scientist
Ninyo & Moore
(949) 753-7070 x2273

Rachelle

From: Ruth Cheung [rcheung@ninyoandmoore.com]
Sent: Thursday, August 08, 2002 9:14 AM
To: 'Rachelle'
Subject: TCLP Analysis

TCLP-3.xls

In addition to the 90 TCLP already run please run the following samples for
TCLP. There should be a list of 350 samples.
Thanks for a the hard work and timely results.

Ruth L. Cheung
Staff Environmental Scientist
Ninyo & Moore
(949) 753-7070 x2273

-----Original Message-----
From: Rachelle [SMTP:Rachelle@ATLGlobal.com]
Sent: Wednesday, August 07, 2002 5:02 PM
To: 'David Shaler (E-mail)'
Cc: 'Ruth Cheung (E-mail)'
Subject: TCLP Results

<<57931TCLP.xls>> <<58001TCLP.xls>> <<58021TCLP.xls>> <<58022TCLP.xls>>
<<58023TCLP.xls>> <<58024TCLP.xls>> <<58049TCLP.xls>> <<58050TCLP.xls>>
<<58052TCLP.xls>> <<58053TCLP.xls>> <<58065TCLP.xls>> <<58066TCLP.xls>>
<<58067TCLP.xls>> <<58068TCLP.xls>> <<58069TCLP.xls>>

Rachelle Arada
Project Coordinator
www.atlglobal.com
voice: 562.989.4045 ext 237
fax : 562.989.4040

<< File: 57931TCLP.xls >> << File: 58001TCLP.xls >> << File: 58021TCLP.xls >> << File: 58022TCLP.xls >> << File: 58023TCLP.xls >> << File: 58024TCLP.xls >> << File: 58049TCLP.xls >> << File: 58050TCLP.xls >> << File: 58052TCLP.xls >> << File: 58053TCLP.xls >> << File: 58065TCLP.xls >> << File: 58066TCLP.xls >> << File: 58067TCLP.xls >> << File: 58068TCLP.xls >> << File: 58069TCLP.xls >>

569-404-0	2. STLC	170
569-402-0	2. STLC	130
569-406-0	2. STLC	120
569-515-0	2. STLC	110
569-611-0	2. STLC	100
569-409-0	2. STLC	94
569-603-0	2. STLC	93
569-104-0.6	2. STLC	91
569-807-0	2. STLC	86
569-608-0	2. STLC	86
569-501-0	2. STLC	84
569-710-0.3	2. STLC	83
569-808-0	2. STLC	83
569-609-0.6	2. STLC	80
569-803-0	2. STLC	79
569-105-0	2. STLC	78
569-512-0	2. STLC	77
569-513-0	2. STLC	77
569-302-0	2. STLC	74
569-805-0	2. STLC	73
569-517-0	2. STLC	71
569-704-0.3	2. STLC	71
569-703-0.6	2. STLC	70
569-514-0.3	2. STLC	70
569-803-0.3	2. STLC	69
569-409-0.6	2. STLC	69
569-411-0	2. STLC	68
569-102-0.6	2. STLC	68
569-809-0	2. STLC	65
569-605-0	2. STLC	65
569-711-0.6	2. STLC	62
569-806-0	2. STLC	60
569-802-0.3	2. STLC	60
569-410-0	2. STLC	59
569-501-0.6	2. STLC	59
569-808-0.3	2. STLC	58
569-104-0	2. STLC	56
569-804-0	2. STLC	54
569-610-0	2. STLC	54
569-608-0.3	2. STLC	53
569-213-0	2. STLC	49
569-701-0	2. STLC	47
569-311-0	2. STLC	47
569-609-0.9	2. STLC	46
569-513-0.3	2. STLC	45
569-801-0.6	2. STLC	44
569-514-0	2. STLC	42
569-805-0.6	2. STLC	42
569-408-1.5	2. STLC	42
569-807-0.3	2. STLC	40
569-204-0	2. STLC	40
569-517-0.3	2. STLC	36
569-518-0	2. STLC	36
569-806-0.3	2. STLC	36
569-705-1.5	2. STLC	35
569-303-0.6	2. STLC	34
569-516-0.3	2. STLC	33
569-705-0.6	2. STLC	33
569-802-0	2. STLC	33
569-515-0.6	2. STLC	32
569-704-0	2. STLC	32
569-401-0.3	2. STLC	32
569-207-0	2. STLC	32
569-608-0.6	2. STLC	31
569-104-0.3	2. STLC	31
569-201-0.6	2. STLC	30
569-515-0.3	2. STLC	28
569-212-0.6	2. STLC	28
569-103-0	2. STLC	28
569-313-0	2. STLC	27
569-103-0.3	2. STLC	26
569-705-0.9	2. STLC	25
569-707-0.3	2. STLC	25
569-515-1.5	2. STLC	24
569-508-0	2. STLC	24
569-801-0	2. STLC	24
569-402-0.6	2. STLC	24
569-516-0.6	2. STLC	22
569-509-0.3	2. STLC	22
569-106-0	2. STLC	22
569-106-0.3	2. STLC	22
569-202-0	2. STLC	21
569-805-1.5	2. STLC	21
569-205-0	2. STLC	20
569-707-0	2. STLC	19

570-515-0.3	2. STLC	120
570-811-0	2. STLC	110
570-114-0.0	2. STLC	110
570-504-0.6	2. STLC	100
570-811-1.5	2. STLC	90
570-615-0.6	2. STLC	84
570-305-0	2. STLC	79
570-314-0.6	2. STLC	76
570-505-0.6	2. STLC	75
570-208-0.6	2. STLC	74
570-116-0.0	2. STLC	73
570-102-0	2. STLC	65
570-804-0.6	2. STLC	64
570-704-0	2. STLC	63
570-508-0.6	2. STLC	60
570-706-0.3	2. STLC	60
570-303-0	2. STLC	58
570-311-1.5	2. STLC	58
570-117-0.0	2. STLC	58
570-208-0.3	2. STLC	58
570-709-0.6	2. STLC	57
570-703-0	2. STLC	55
570-206-0	2. STLC	54
570-301-0	2. STLC	53
570-603-0.3	2. STLC	46
570-711-0.6	2. STLC	46
570-206-0.3	2. STLC	45
570-103-0	2. STLC	44
570-602-0	2. STLC	41
570-209-0	2. STLC	40
570-210-0	2. STLC	40
570-117-0.3	2. STLC	39
570-103-0.6	2. STLC	37
570-110-0.6	2. STLC	37
570-805-0.9	2. STLC	36
570-112-1.5	2. STLC	35
570-614-0	2. STLC	34
570-713-0.3	2. STLC	33
570-513-0	2. STLC	32
570-312-0.3	2. STLC	31
570-503-0.6	2. STLC	31
570-510-0.6	2. STLC	31
570-202-0	2. STLC	31
570-207-0	2. STLC	31
570-209-0.3	2. STLC	31
570-703-0.3	2. STLC	30
570-401-0	2. STLC	30
570-610-0.9	2. STLC	29
570-809-0.6	2. STLC	29
570-509-0.9	2. STLC	29
570-210-0.6	2. STLC	29
570-211-0	2. STLC	29
570-603-0	2. STLC	28
570-119-0	2. STLC	28
570-713-0.6	2. STLC	28
570-108-0	2. STLC	27
570-708-0.6	2. STLC	27
570-224-0	2. STLC	26
570-601-0	2. STLC	26
570-710-0.6	2. STLC	26
570-614-0.6	2. STLC	26
570-118-0.3	2. STLC	26
570-304-0	2. STLC	25
570-707-0.6	2. STLC	25
570-510-0	2. STLC	25
570-110-0	2. STLC	24
570-223-0	2. STLC	24
570-117-0.6	2. STLC	24
570-616-0	2. STLC	23
570-704-0.3	2. STLC	22
570-513-0.6	2. STLC	22
570-221-0.0	2. STLC	22
570-617-0	2. STLC	21
570-214-0.3	2. STLC	21
570-122-0.9	2. STLC	20
570-313-0.6	2. STLC	19
570-207-0.6	2. STLC	19
570-120-0.9	2. STLC	18
570-506-0	2. STLC	18
570-102-0.9	2. STLC	17
570-216-0	2. STLC	17
570-225-0	2. STLC	17
570-304-0.3	2. STLC	17
570-409-0	2. STLC	17
570-713-0	2. STLC	17

571-521-0	2. STLC	230
571-324-0.9	2. STLC	110
571-818-0	2. STLC	110
571-819-0.6	2. STLC	110
571-708-0	2. STLC	110
571-103-0.6	2. STLC	110
571-617-0.3	2. STLC	100
571-611-0.6	2. STLC	92
571-712-0.9	2. STLC	81
571-105-0.6	2. STLC	81
571-313-0	2. STLC	79
571-508-0	2. STLC	73
571-518-0.3	2. STLC	73
571-217-0	2. STLC	68
571-516-0	2. STLC	66
571-701-0.3	2. STLC	66
571-710-0.6	2. STLC	65
571-512-0	2. STLC	64
571-308-0.9	2. STLC	61
571-701-0	2. STLC	61
571-514-0.3	2. STLC	59
571-415-0	2. STLC	58
571-616-0.6	2. STLC	57
571-517-0	2. STLC	56
571-112-0.9	2. STLC	56
571-214-0	2. STLC	55
571-415-0.3	2. STLC	55
571-405-0.6	2. STLC	55
571-530-0	2. STLC	55
571-831-0	2. STLC	53
571-709-0	2. STLC	53
571-103-0.0	2. STLC	52
571-312-0	2. STLC	51
571-526-0	2. STLC	51
571-819-1.5	2. STLC	51
571-515-0	2. STLC	50
571-833-0	2. STLC	49
571-815-0.6	2. STLC	47
571-517-0.3	2. STLC	46
571-610-0	2. STLC	46
571-413-0	2. STLC	46
571-815-0	2. STLC	45
571-514-0.9	2. STLC	44
571-505-1.5	2. STLC	44
571-528-0	2. STLC	44
571-610-0.6	2. STLC	43
571-629-0	2. STLC	43
571-604-0	2. STLC	42
571-213-0	2. STLC	41
571-812-0	2. STLC	41
571-706-0	2. STLC	41
571-530-0.6	2. STLC	41
571-305-0	2. STLC	40
571-523-0.3	2. STLC	39
571-510-0	2. STLC	39
571-305-0.9	2. STLC	39
571-818-1.5	2. STLC	39
571-703-0	2. STLC	38
571-520-0.3	2. STLC	36
571-216-0	2. STLC	34
571-827-0	2. STLC	34
571-708-0.3	2. STLC	34
571-514-0.6	2. STLC	33
571-528-1.5	2. STLC	33
571-803-0	2. STLC	33
571-414-0.3	2. STLC	33
571-813-0.3	2. STLC	32
571-523-0	2. STLC	31
571-326-0	2. STLC	31
571-502-0.6	2. STLC	31
571-624-1.5	2. STLC	31
571-330-0	2. STLC	31
571-512-0.3	2. STLC	30
571-521-0.6	2. STLC	29
571-706-0.3	2. STLC	29
571-814-0.6	2. STLC	28
571-616-1.5	2. STLC	28
571-835-0	2. STLC	28
571-811-0.3	2. STLC	28
571-101-0.6	2. STLC	28
571-112-0	2. STLC	28
571-315-0	2. STLC	27
571-622-0	2. STLC	27
571-607-0.6	2. STLC	27
571-609-0.6	2. STLC	27

569-709-0	2. STLC	19
569-202-0.3	2. STLC	19
569-602-0	2. STLC	19
569-207-0.3	2. STLC	19
569-706-0.3	2. STLC	17
569-807-0.9	2. STLC	17
569-104-0.9	2. STLC	17
569-505-0.6	2. STLC	17
569-704-0.6	2. STLC	16
569-808-0.6	2. STLC	16
569-212-0.3	2. STLC	16
569-612-0	2. STLC	16
569-704-1.5	2. STLC	15
569-411-0.3	2. STLC	15
569-113-0	2. STLC	15
569-807-0.6	2. STLC	14
569-311-0.3	2. STLC	12
569-312-0	2. STLC	10
569-311-0.9	2. STLC	8.3

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570-401-0.3	2. STLC	17
570-616-0.6	2. STLC	17
570-308-0	2. STLC	16
570-807-0.9	2. STLC	16
570-701-0.6	2. STLC	16
570-617-0.3	2. STLC	16
570-107-0.6	2. STLC	15
570-811-0.6	2. STLC	15
570-707-0	2. STLC	15
570-518-0	2. STLC	15
570-111-0.0	2. STLC	15
570-109-0.6	2. STLC	14
570-401-0.9	2. STLC	4.1
570-408-0	2. STLC	4
570-409-0.3	2. STLC	3
570-401-0.6		0
570-401-1.5		0
570-408-0.6		0
570-408-1.5		0

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571-837-0.3	2. STLC	27
571-520-0	2. STLC	26
571-516-0.3	2. STLC	26
571-420-0	2. STLC	26
571-102-0.6	2. STLC	26
571-517-1.5	2. STLC	25
571-513-0.6	2. STLC	25
571-623-0.6	2. STLC	25
571-112-0.3	2. STLC	25
571-326-0.6	2. STLC	24
571-619-0.3	2. STLC	24
571-619-0.9	2. STLC	24
571-528-0.3	2. STLC	24
571-706-0.6	2. STLC	24
571-112-0.6	2. STLC	24
571-327-0.6	2. STLC	23
571-817-0	2. STLC	23
571-425-0.6	2. STLC	22
571-118-0	2. STLC	22
571-829-0	2. STLC	22
571-828-0	2. STLC	22
571-122-0	2. STLC	21
571-101-1.5	2. STLC	21
571-530-0.3	2. STLC	21
571-406-0.6	2. STLC	20
571-517-0.6	2. STLC	20
571-835-0.3	2. STLC	20
571-501-0	2. STLC	20
571-518-0.9	2. STLC	19
571-510-0.3	2. STLC	19
571-814-0.9	2. STLC	19
571-522-0.6	2. STLC	19
571-622-1.5	2. STLC	19
571-812-0.6	2. STLC	19
571-701-0.6	2. STLC	19
571-704-0	2. STLC	19
571-711-0.6	2. STLC	19
571-212-0	2. STLC	18
571-839-0.6	2. STLC	18
571-610-1.5	2. STLC	18
571-709-0.3	2. STLC	18
571-311-0.6	2. STLC	17
571-620-0	2. STLC	17
571-109-0	2. STLC	17
571-704-0.3	2. STLC	17
571-207-1.5	2. STLC	16
571-203-0	2. STLC	16
571-616-0.3	2. STLC	16
571-317-0.3	2. STLC	16
571-629-0.3	2. STLC	16
571-416-0	2. STLC	15
571-419-0	2. STLC	15
571-526-0.3	2. STLC	15
571-619-0	2. STLC	15
571-606-0	2. STLC	15
571-115-0.6	2. STLC	14
571-202-0.9	2. STLC	11

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tblTEMP

WorkOrder	ClientSampID	TestNo	Analyte	PQL	DF	CollectionDate	AnalDate	PrepDate
057978	570-119-0	EPA 1311/ 7420	Lead	0.2	1	7/17/2002	8/15/2002	8/14/2002
057978	570-119-0	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-119-0	WET DI/ EPA 7420	Lead	0.2	1	7/17/2002	8/2/2002	7/31/2002
057978	570-119-0	WET/ EPA 7420	Lead	0.8	4	7/17/2002	7/30/2002	7/26/2002
057978	570-119-0.3	EPA 1311/ 7420	Lead	0.2	1	7/17/2002	8/6/2002	8/5/2002
057978	570-119-0.3	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-119-0.6	EPA 6010B	Antimony	2.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-119-0.6	EPA 6010B	Arsenic	2.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-119-0.6	EPA 6010B	Barium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-119-0.6	EPA 6010B	Beryllium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-119-0.6	EPA 6010B	Cadmium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-119-0.6	EPA 6010B	Chromium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-119-0.6	EPA 6010B	Cobalt	1.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-119-0.6	EPA 6010B	Copper	1.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-119-0.6	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-119-0.6	EPA 6010B	Molybdenum	2.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-119-0.6	EPA 6010B	Nickel	1.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-119-0.6	EPA 6010B	Selenium	2.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-119-0.6	EPA 6010B	Silver	1.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-119-0.6	EPA 6010B	Thallium	2.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-119-0.6	EPA 6010B	Vanadium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-119-0.6	EPA 6010B	Zinc	5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-119-0.6	EPA 7471A	Mercury	0.1	1	7/17/2002	8/13/2002	8/7/2002
057978	570-119-0.6	WET/ EPA 7420	Lead	0.2	1	7/17/2002	7/30/2002	7/26/2002
057978	570-123-0	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-123-0	WET DI/ EPA 7420	Lead	0.2	1	7/17/2002	8/2/2002	7/31/2002
057978	570-123-0	WET/ EPA 7420	Lead	0.2	1	7/17/2002	7/30/2002	7/26/2002
057978	570-123-0.3	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-123-0.6	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-123-0.6	WET/ EPA 7420	Lead	0.2	1	7/17/2002	7/30/2002	7/26/2002
057978	570-123-0.9	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-123-0.9	EPA 9045C	pH	0.1	1	7/17/2002	7/23/2002	7/23/2002
057978	570-301-0	EPA 1311/ 7420	Lead	0.2	1	7/17/2002	8/15/2002	8/14/2002
057978	570-301-0	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-301-0	WET DI/ EPA 7420	Lead	0.2	1	7/17/2002	8/2/2002	7/31/2002

057978	570-301-0	WET/ EPA 7420	Lead	2	10	7/17/2002	7/30/2002	7/26/2002
057978	570-301-0.3	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-301-0.3	WET DI/ EPA 7420	Lead	0.2	1	7/17/2002	8/2/2002	7/31/2002
057978	570-301-0.3	WET/ EPA 7420	Lead	0.2	1	7/17/2002	7/30/2002	7/26/2002
057978	570-301-0.6	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-317-0.0	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-317-0.0	EPA 9045C	pH	0.1	1	7/17/2002	7/23/2002	7/23/2002
057978	570-317-0.0	WET DI/ EPA 7420	Lead	0.2	1	7/17/2002	8/2/2002	7/31/2002
057978	570-317-0.0	WET/ EPA 7420	Lead	0.2	1	7/17/2002	7/30/2002	7/26/2002
057978	570-317-0.3	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-317-0.6	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-317-0.6	WET/ EPA 7420	Lead	0.2	1	7/17/2002	7/30/2002	7/26/2002
057978	570-317-0.9	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-317-1.5	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-503-0.0	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-503-0.0	WET/ EPA 7420	Lead	0.2	1	7/17/2002	7/30/2002	7/26/2002
057978	570-503-0.3	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-503-0.6	EPA 1311/ 7420	Lead	0.2	1	7/17/2002	8/15/2002	8/14/2002
057978	570-503-0.6	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-503-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/17/2002	8/2/2002	7/31/2002
057978	570-503-0.6	WET/ EPA 7420	Lead	0.8	4	7/17/2002	7/30/2002	7/26/2002
057978	570-503-0.9	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-503-1.5	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-504-0.0	EPA 1311/ 7420	Lead	0.2	1	7/17/2002	8/6/2002	8/5/2002
057978	570-504-0.0	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-504-0.0	EPA 9045C	pH	0.1	1	7/17/2002	7/23/2002	7/23/2002
057978	570-504-0.3	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-504-0.6	EPA 1311/ 7420	Lead	0.2	1	7/17/2002	8/15/2002	8/14/2002
057978	570-504-0.6	EPA 6010B	Lead	5	1	7/17/2002	8/14/2002	8/13/2002
057978	570-504-0.6	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-504-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/17/2002	8/2/2002	7/31/2002
057978	570-504-0.6	WET/ EPA 7420	Lead	4	20	7/17/2002	7/30/2002	7/26/2002
057978	570-504-0.9	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-504-0.9	WET/ EPA 7420	Lead	0.2	1	7/17/2002	7/30/2002	7/26/2002
057978	570-504-1.5	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-505-0.0	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002

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057978	570-505-0.3	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-505-0.6	EPA 1311/ 7420	Lead	0.2	1	7/17/2002	8/15/2002	8/14/2002
057978	570-505-0.6	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-505-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/17/2002	8/2/2002	7/31/2002
057978	570-505-0.6	WET/ EPA 7420	Lead	2	10	7/17/2002	7/30/2002	7/26/2002
057978	570-505-0.9	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-505-0.9	WET/ EPA 7420	Lead	0.2	1	7/17/2002	7/30/2002	7/26/2002
057978	570-505-1.5	EPA 6010B	Antimony	2.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-505-1.5	EPA 6010B	Arsenic	2.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-505-1.5	EPA 6010B	Barium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-505-1.5	EPA 6010B	Beryllium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-505-1.5	EPA 6010B	Cadmium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-505-1.5	EPA 6010B	Chromium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-505-1.5	EPA 6010B	Cobalt	1.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-505-1.5	EPA 6010B	Copper	1.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-505-1.5	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-505-1.5	EPA 6010B	Molybdenum	2.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-505-1.5	EPA 6010B	Nickel	1.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-505-1.5	EPA 6010B	Selenium	2.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-505-1.5	EPA 6010B	Silver	1.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-505-1.5	EPA 6010B	Thallium	2.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-505-1.5	EPA 6010B	Vanadium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-505-1.5	EPA 6010B	Zinc	5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-505-1.5	EPA 7471A	Mercury	0.1	1	7/17/2002	8/12/2002	8/7/2002
057978	570-506-0.0	EPA 1311/ 7420	Lead	0.2	1	7/17/2002	8/15/2002	8/14/2002
057978	570-506-0.0	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-506-0.0	EPA 9045C	pH	0.1	1	7/17/2002	7/23/2002	7/23/2002
057978	570-506-0.0	WET DI/ EPA 7420	Lead	0.2	1	7/17/2002	8/2/2002	7/31/2002
057978	570-506-0.0	WET/ EPA 7420	Lead	0.4	2	7/17/2002	7/30/2002	7/26/2002
057978	570-506-0.3	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-506-0.6	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-506-0.9	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-506-0.9	WET/ EPA 7420	Lead	0.2	1	7/17/2002	7/30/2002	7/26/2002
057978	570-506-1.5	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-508-0.0	EPA 1311/ 7420	Lead	0.2	1	7/17/2002	8/6/2002	8/5/2002
057978	570-508-0.0	EPA 6010B	Antimony	2.5	10	7/17/2002	8/10/2002	8/8/2002

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057978	570-508-0.0	EPA 6010B	Arsenic	2.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-508-0.0	EPA 6010B	Barium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-508-0.0	EPA 6010B	Beryllium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-508-0.0	EPA 6010B	Cadmium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-508-0.0	EPA 6010B	Chromium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-508-0.0	EPA 6010B	Cobalt	1.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-508-0.0	EPA 6010B	Copper	1.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-508-0.0	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-508-0.0	EPA 6010B	Molybdenum	2.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-508-0.0	EPA 6010B	Nickel	1.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-508-0.0	EPA 6010B	Selenium	2.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-508-0.0	EPA 6010B	Silver	1.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-508-0.0	EPA 6010B	Thallium	2.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-508-0.0	EPA 6010B	Vanadium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-508-0.0	EPA 6010B	Zinc	5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-508-0.0	EPA 7471A	Mercury	0.1	1	7/17/2002	8/9/2002	8/7/2002
057978	570-508-0.3	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-508-0.3	WET/ EPA 7420	Lead	0.2	1	7/17/2002	7/30/2002	7/26/2002
057978	570-508-0.6	EPA 1311/ 7420	Lead	0.2	1	7/17/2002	8/15/2002	8/14/2002
057978	570-508-0.6	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-508-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/17/2002	8/2/2002	7/31/2002
057978	570-508-0.6	WET/ EPA 7420	Lead	2	10	7/17/2002	7/30/2002	7/26/2002
057978	570-508-0.9	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-508-1.5	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-509-0.0	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-509-0.0	EPA 9045C	pH	0.1	1	7/17/2002	7/23/2002	7/23/2002
057978	570-509-0.3	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-509-0.6	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-509-0.9	EPA 1311/ 7420	Lead	0.2	1	7/17/2002	8/15/2002	8/14/2002
057978	570-509-0.9	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-509-0.9	WET DI/ EPA 7420	Lead	0.2	1	7/17/2002	8/2/2002	7/31/2002
057978	570-509-0.9	WET/ EPA 7420	Lead	0.8	4	7/17/2002	7/30/2002	7/26/2002
057978	570-509-1.5	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-812-0.0	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-812-0.3	EPA 1311/ 7420	Lead	0.2	1	7/17/2002	8/6/2002	8/5/2002
057978	570-812-0.3	EPA 6010B	Antimony	2.5	10	7/17/2002	8/10/2002	8/8/2002

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057978	570-812-0.3	EPA 6010B	Arsenic	2.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-812-0.3	EPA 6010B	Barium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-812-0.3	EPA 6010B	Beryllium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-812-0.3	EPA 6010B	Cadmium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-812-0.3	EPA 6010B	Chromium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-812-0.3	EPA 6010B	Cobalt	1.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-812-0.3	EPA 6010B	Copper	1.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-812-0.3	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-812-0.3	EPA 6010B	Molybdenum	2.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-812-0.3	EPA 6010B	Nickel	1.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-812-0.3	EPA 6010B	Selenium	2.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-812-0.3	EPA 6010B	Silver	1.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-812-0.3	EPA 6010B	Thallium	2.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-812-0.3	EPA 6010B	Vanadium	1.5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-812-0.3	EPA 6010B	Zinc	5	10	7/17/2002	8/10/2002	8/8/2002
057978	570-812-0.3	EPA 7471A	Mercury	0.1	1	7/17/2002	8/12/2002	8/7/2002
057978	570-812-0.6	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-812-0.9	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-812-1.5	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-813-0.0	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-813-0.0	EPA 9045C	pH	0.1	1	7/17/2002	7/23/2002	7/23/2002
057978	570-813-0.3	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-813-0.6	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	570-813-0.6	WET DI/ EPA 7420	Lead	0.2	1	7/17/2002	8/2/2002	7/31/2002
057978	570-813-0.6	WET/ EPA 7420	Lead	0.2	1	7/17/2002	7/30/2002	7/26/2002
057978	570-813-0.9	EPA 6010B	Lead	5	1	7/17/2002	7/23/2002	7/19/2002
057978	EB-12	EPA 6010B	Lead	0.005	1	7/17/2002	7/23/2002	7/22/2002

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APPENDIX B

CALTRANS HAZ GIS DATABASE EXCEL SPREADSHEET DELIVERABLES

sample date	sample depth	sample ID	test type	value	result units	method detection limit	analysis date	analyte	matrix	lab name
7/15/02	0 m	570-101-0	1. TTLC	2900	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-101-0	4. TCLP	8.4	mg/L	0.2	8/6/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-101-0.3	1. TTLC	45	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-101-0.6	1. TTLC	1700	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-101-0.6	5. PH	6.5	pH Units	0.1	7/19/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-101-0.6	4. TCLP	1.6	mg/L	0.2	8/6/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.9 m	570-101-0.9	1. TTLC	140	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.9 m	570-101-0.9	2. STLC	0.22	mg/L	0.2	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	1.5 m	570-101-1.5	1. TTLC	28	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-102-0	1. TTLC	510	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-102-0	2. STLC	65	mg/L	4	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-102-0	3. STLC-DI	1.6	mg/L	0.2	8/1/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-102-0	4. TCLP	4.5	mg/L	0.2	8/14/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-102-0.3	1. TTLC	22	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-102-0.6	1. TTLC	1400	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-102-0.6	4. TCLP	8.5	mg/L	0.2	8/6/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.9 m	570-102-0.9	1. TTLC	270	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.9 m	570-102-0.9	2. STLC	17	mg/L	0.4	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.9 m	570-102-0.9	3. STLC-DI	0.95	mg/L	0.2	8/1/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.9 m	570-102-0.9	4. TCLP	5.2	mg/L	0.2	8/14/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	1.5 m	570-102-1.5	1. TTLC	220	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	1.5 m	570-102-1.5	2. STLC	9.1	mg/L	0.2	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	1.5 m	570-102-1.5	3. STLC-DI	0.29	mg/L	0.2	8/1/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-103-0	1. TTLC	250	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-103-0	2. STLC	44	mg/L	1.6	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-103-0	3. STLC-DI	0.75	mg/L	0.2	8/1/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-103-0	4. TCLP	1.3	mg/L	0.2	8/14/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-103-0.3	1. TTLC	6.1	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-103-0.6	1. TTLC	470	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-103-0.6	5. PH	6.5	pH Units	0.1	7/19/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-103-0.6	2. STLC	37	mg/L	0.8	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-103-0.6	3. STLC-DI	0.2	mg/L	0.2	8/1/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-103-0.6	4. TCLP	1.8	mg/L	0.2	8/14/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.9 m	570-103-0.9	1. TTLC	9.2	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	1.5 m	570-103-1.5	1. TTLC	1100	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	1.5 m	570-103-1.5	4. TCLP	2.3	mg/L	0.2	8/6/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-104-0	1. TTLC	4	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-104-0.3	1. TTLC	200	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-104-0.3	2. STLC	4.9	mg/L	0.2	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-104-0.6	1. TTLC	160	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-104-0.6	2. STLC	2.1	mg/L	0.2	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.9 m	570-104-0.9	1. TTLC	2	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	1.5 m	570-104-1.5	1. TTLC	210	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	1.5 m	570-104-1.5	2. STLC	4	mg/L	0.2	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill

7/15/02	0 m	570-105-0	1. TTLC	66	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-105-0	5. PH	9.1	pH Units	0.1	7/19/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-105-0	2. STLC	1.9	mg/L	0.2	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-105-0.3	1. TTLC	6.6	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-105-0.6	1. TTLC	110	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-105-0.6	2. STLC	5.6	mg/L	0.2	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-105-0.6	3. STLC-DI	0.1	mg/L	0.2	8/1/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-106-0	1. TTLC	87	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-106-0	2. STLC	7.2	mg/L	0.2	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-106-0	3. STLC-DI	0.49	mg/L	0.2	8/1/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-106-0.3	1. TTLC	6.3	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-106-0.6	1. TTLC	3	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.9 m	570-106-0.9	1. TTLC	2	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	1.5 m	570-106-1.5	1. TTLC	4	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-107-0	1. TTLC	6.2	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-107-0	5. PH	7.8	pH Units	0.1	7/19/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-107-0.3	1. TTLC	6.4	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-107-0.6	1. TTLC	410	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-107-0.6	2. STLC	15	mg/L	0.4	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-107-0.6	3. STLC-DI	0.34	mg/L	0.2	8/1/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-107-0.6	4. TCLP	2.3	mg/L	0.2	8/14/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.9 m	570-107-0.9	1. TTLC	4	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	1.5 m	570-107-1.5	1. TTLC	3	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-108-0	1. TTLC	120	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-108-0	5. PH	7.4	pH Units	0.1	7/19/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-108-0	2. STLC	27	mg/L	0.8	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-108-0	3. STLC-DI	0.22	mg/L	0.2	8/1/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-108-0	4. TCLP	0.64	mg/L	0.2	8/14/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-108-0.3	1. TTLC	9.7	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-108-0.6	1. TTLC	8.7	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.9 m	570-108-0.9	1. TTLC	8.9	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	1.5 m	570-108-1.5	1. TTLC	250	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	1.5 m	570-108-1.5	2. STLC	6.7	mg/L	0.2	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	1.5 m	570-108-1.5	3. STLC-DI	0	mg/L	0.2	8/1/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-109-0	1. TTLC	23	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-109-0.3	1. TTLC	17	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-109-0.6	1. TTLC	350	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-109-0.6	2. STLC	14	mg/L	0.4	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-109-0.6	3. STLC-DI	0.54	mg/L	0.2	8/1/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-109-0.6	4. TCLP	0.29	mg/L	0.2	8/14/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.9 m	570-109-0.9	1. TTLC	11	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	1.5 m	570-109-1.5	1. TTLC	10	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-110-0	1. TTLC	160	mg/Kg	5	7/22/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-110-0	5. PH	7.6	pH Units	0.1	7/21/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-110-0	2. STLC	24	mg/L	0.8	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill

7/16/02	0 m	570-110-0	3. STLC-DI	0	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-110-0	4. TCLP	0.69	mg/L	0.2	8/14/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-110-0.3	1. TTLC	93	mg/Kg	5	7/22/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-110-0.3	2. STLC	8.9	mg/L	0.2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-110-0.3	3. STLC-DI	0	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-110-0.6	1. TTLC	310	mg/Kg	5	7/22/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-110-0.6	2. STLC	37	mg/L	0.8	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-110-0.6	3. STLC-DI	0	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-110-0.6	4. TCLP	19	mg/L	0.4	8/16/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-110-0.9	1. TTLC	7.9	mg/Kg	5	7/22/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-111-0	1. TTLC	66	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-111-0	3. STLC-DI	0.1	mg/L	0.2	8/1/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-111-0	2. STLC	15	mg/L	0.4	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-111-0	4. TCLP	0.68	mg/L	0.2	8/14/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-111-0.3	1. TTLC	180	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-111-0.3	3. STLC-DI	0.2	mg/L	0.2	8/1/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-111-0.3	2. STLC	8.8	mg/L	0.2	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-111-0.6	1. TTLC	8	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-112-0	1. TTLC	63	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-112-0	2. STLC	2.9	mg/L	0.2	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-112-0.3	1. TTLC	92	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-112-0.3	3. STLC-DI	0.2	mg/L	0.2	8/1/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-112-0.3	2. STLC	6.7	mg/L	0.2	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-112-0.6	1. TTLC	40	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.9 m	570-112-0.9	1. TTLC	22	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	1.5 m	570-112-1.5	1. TTLC	570	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	1.5 m	570-112-1.5	3. STLC-DI	0.1	mg/L	0.2	8/1/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	1.5 m	570-112-1.5	2. STLC	35	mg/L	0.8	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	1.5 m	570-112-1.5	4. TCLP	0.57	mg/L	0.2	8/14/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-113-0	1. TTLC	12	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-113-0.3	1. TTLC	1000	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-113-0.3	5. PH	7.3	pH Units	0.1	7/19/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-113-0.3	4. TCLP	0.09	mg/L	0.2	8/6/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-113-0.6	1. TTLC	36	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-114-0	1. TTLC	410	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-114-0	3. STLC-DI	1.3	mg/L	0.2	8/1/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-114-0	2. STLC	110	mg/L	4	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-114-0	4. TCLP	0.52	mg/L	0.2	8/14/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-114-0.3	1. TTLC	19	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-114-0.6	1. TTLC	1100	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-114-0.6	4. TCLP	1.5	mg/L	0.2	8/6/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.9 m	570-114-0.9	1. TTLC	9.5	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	1.5 m	570-114-1.5	1. TTLC	10	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-115-0	1. TTLC	1200	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-115-0	4. TCLP	0.85	mg/L	0.2	8/6/02	Lead	Soil	Advanced Technology Lab., Signal Hill

7/15/02	0.3 m	570-115-0.3	1. TTLC	20	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-115-0.6	1. TTLC	890	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-115-0.6	3. STLC-DI	0.38	mg/L	0.2	8/1/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-115-0.6	2. STLC	13	mg/L	0.4	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-116-0	1. TTLC	840	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-116-0	5. PH	6.2	pH Units	0.1	7/19/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-116-0	3. STLC-DI	1.1	mg/L	0.2	8/1/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-116-0	2. STLC	73	mg/L	2	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-116-0	4. TCLP	1.6	mg/L	0.2	8/14/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-117-0	1. TTLC	810	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-117-0	3. STLC-DI	0.79	mg/L	0.2	8/1/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-117-0	2. STLC	58	mg/L	2	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-117-0	4. TCLP	2.5	mg/L	0.2	8/16/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-117-0.3	1. TTLC	400	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-117-0.3	3. STLC-DI	1	mg/L	0.2	8/1/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-117-0.3	2. STLC	39	mg/L	0.8	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-117-0.3	4. TCLP	1.4	mg/L	0.2	8/14/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-117-0.6	1. TTLC	330	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-117-0.6	3. STLC-DI	0.65	mg/L	0.2	8/1/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-117-0.6	2. STLC	24	mg/L	0.8	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-117-0.6	4. TCLP	0.72	mg/L	0.2	8/14/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-118-0	1. TTLC	99	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-118-0	3. STLC-DI	0.1	mg/L	0.2	8/1/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-118-0	2. STLC	6	mg/L	0.2	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-118-0.3	1. TTLC	370	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-118-0.3	3. STLC-DI	1.1	mg/L	0.2	8/1/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-118-0.3	2. STLC	26	mg/L	0.8	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-118-0.3	4. TCLP	1.5	mg/L	0.2	8/14/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-118-0.6	1. TTLC	240	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-118-0.6	3. STLC-DI	0.38	mg/L	0.2	8/1/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-118-0.6	2. STLC	14	mg/L	0.4	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.9 m	570-118-0.9	1. TTLC	43	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-119-0	1. TTLC	240	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-119-0	2. STLC	28	mg/L	0.8	7/30/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-119-0	3. STLC-DI	0.26	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-119-0	4. TCLP	0.92	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-119-0.3	1. TTLC	1300	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-119-0.3	4. TCLP	3	mg/L	0.2	8/6/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-119-0.6	1. TTLC	56	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-119-0.6	2. STLC	2.4	mg/L	0.2	7/30/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-120-0	1. TTLC	44	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-120-0	5. PH	7	pH Units	0.1	7/21/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-120-0.3	1. TTLC	14	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-120-0.6	1. TTLC	12	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-120-0.9	1. TTLC	120	mg/Kg	5	7/21/02	Lead	Soil	Advanced Technology Lab., Signal Hill

7/16/02	0.9 m	570-120-0.9	2. STLC	18	mg/L	0.4	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-120-0.9	3. STLC-DI	0.07	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-120-0.9	4. TCLP	0.2	mg/L	0.2	8/14/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	1.5 m	570-120-1.5	1. TTLC	69	mg/Kg	5	7/21/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	1.5 m	570-120-1.5	2. STLC	1.3	mg/L	0.2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-121-0	1. TTLC	12	mg/Kg	5	7/21/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-121-0.3	1. TTLC	120	mg/Kg	5	7/21/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-121-0.3	2. STLC	6.9	mg/L	0.2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-121-0.3	3. STLC-DI	0	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-121-0.6	1. TTLC	5.7	mg/Kg	5	7/21/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-121-0.9	1. TTLC	5	mg/Kg	5	7/21/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	1.5 m	570-121-1.5	1. TTLC	3	mg/Kg	5	7/21/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-122-0	1. TTLC	7.7	mg/Kg	5	7/21/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-122-0	5. PH	8.3	pH Units	0.1	7/21/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-122-0.3	1. TTLC	5.3	mg/Kg	5	7/21/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-122-0.6	1. TTLC	34	mg/Kg	5	7/21/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-122-0.9	1. TTLC	220	mg/Kg	5	7/21/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-122-0.9	2. STLC	20	mg/L	0.4	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-122-0.9	3. STLC-DI	0	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-122-0.9	4. TCLP	0	mg/L	0.2	8/14/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	1.5 m	570-122-1.5	1. TTLC	5.3	mg/Kg	5	7/21/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-123-0	1. TTLC	140	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-123-0	2. STLC	9.8	mg/L	0.2	7/30/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-123-0	3. STLC-DI	0.1	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-123-0.3	1. TTLC	20	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-123-0.6	1. TTLC	57	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-123-0.6	2. STLC	3.7	mg/L	0.2	7/30/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.9 m	570-123-0.9	1. TTLC	47	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.9 m	570-123-0.9	5. PH	8.2	pH Units	0.1	7/23/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-201-0	1. TTLC	1400	mg/Kg	5	7/17/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-201-0	5. PH	7.4	pH Units	0.1	7/18/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-201-0	4. TCLP	3.5	mg/L	0.2	8/7/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-201-0.3	1. TTLC	57	mg/Kg	5	7/17/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-201-0.3	3. STLC-DI	0	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-201-0.3	2. STLC	5.3	mg/L	0.2	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-201-0.6	1. TTLC	6	mg/Kg	5	7/17/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.9 m	570-201-0.9	1. TTLC	50	mg/Kg	5	7/17/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.9 m	570-201-0.9	2. STLC	2.5	mg/L	0.2	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	1.5 m	570-201-1.5	1. TTLC	170	mg/Kg	5	7/17/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	1.5 m	570-201-1.5	3. STLC-DI	0.06	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	1.5 m	570-201-1.5	2. STLC	14	mg/L	0.4	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-202-0	1. TTLC	460	mg/Kg	5	7/17/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-202-0	3. STLC-DI	0.1	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-202-0	2. STLC	31	mg/L	0.8	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-202-0	4. TCLP	0.74	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill

7/15/02	0.3 m	570-202-0.3	1. TTLC	120	mg/Kg	5	7/17/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-202-0.3	3. STLC-DI	0.06	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-202-0.3	2. STLC	6.4	mg/L	0.2	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-202-0.6	1. TTLC	65	mg/Kg	5	7/17/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-202-0.6	2. STLC	3.6	mg/L	0.2	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.9 m	570-202-0.9	1. TTLC	180	mg/Kg	5	7/17/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.9 m	570-202-0.9	3. STLC-DI	0.07	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.9 m	570-202-0.9	2. STLC	11	mg/L	0.4	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	1.5 m	570-202-1.5	1. TTLC	250	mg/Kg	5	7/17/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	1.5 m	570-202-1.5	3. STLC-DI	0.07	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	1.5 m	570-202-1.5	2. STLC	14	mg/L	0.4	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-203-0	1. TTLC	130	mg/Kg	5	7/17/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-203-0	5. PH	8.1	pH Units	0.1	7/18/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-203-0	3. STLC-DI	0.06	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-203-0	2. STLC	6.8	mg/L	0.2	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-203-0.3	1. TTLC	88	mg/Kg	5	7/17/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-203-0.3	3. STLC-DI	0.05	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-203-0.3	2. STLC	7.4	mg/L	0.2	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-203-0.6	1. TTLC	130	mg/Kg	5	7/17/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-203-0.6	3. STLC-DI	0.06	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-203-0.6	2. STLC	5.1	mg/L	0.2	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-204-0	1. TTLC	150	mg/Kg	5	7/17/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-204-0	3. STLC-DI	0.08	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-204-0	2. STLC	8.5	mg/L	0.2	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-204-0.3	1. TTLC	94	mg/Kg	5	7/17/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-204-0.3	3. STLC-DI	0.08	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-204-0.3	2. STLC	7.3	mg/L	0.2	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-205-0	1. TTLC	64	mg/Kg	5	7/17/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-205-0	2. STLC	2.6	mg/L	0.2	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-205-0.3	1. TTLC	16	mg/Kg	5	7/17/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-205-0.6	1. TTLC	15	mg/Kg	5	7/17/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.9 m	570-205-0.9	1. TTLC	32	mg/Kg	5	7/17/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-206-0	1. TTLC	650	mg/Kg	5	7/17/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-206-0	3. STLC-DI	0.22	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-206-0	2. STLC	54	mg/L	1.6	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-206-0	4. TCLP	0.54	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-206-0.3	1. TTLC	700	mg/Kg	5	7/17/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-206-0.3	5. PH	7	pH Units	0.1	7/18/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-206-0.3	3. STLC-DI	0.09	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-206-0.3	2. STLC	45	mg/L	1.6	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-206-0.3	4. TCLP	0.64	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-206-0.6	1. TTLC	200	mg/Kg	5	7/17/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-206-0.6	3. STLC-DI	0.09	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-206-0.6	2. STLC	11	mg/L	0.4	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.9 m	570-206-0.9	1. TTLC	30	mg/Kg	5	7/17/02	Lead	Soil	Advanced Technology Lab., Signal Hill

7/15/02	1.5 m	570-206-1.5	1. TTLC	12	mg/Kg	5	7/17/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-207-0	1. TTLC	320	mg/Kg	5	7/17/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-207-0	3. STLC-DI	0.22	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-207-0	2. STLC	31	mg/L	1	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-207-0	4. TCLP	0.86	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-207-0.3	1. TTLC	59	mg/Kg	5	7/17/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-207-0.3	3. STLC-DI	0.1	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-207-0.3	2. STLC	6.2	mg/L	0.2	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-207-0.6	1. TTLC	250	mg/Kg	5	7/17/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-207-0.6	3. STLC-DI	0.27	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-207-0.6	2. STLC	19	mg/L	0.4	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-207-0.6	4. TCLP	0.78	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-208-0	1. TTLC	1000	mg/Kg	5	7/17/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-208-0	4. TCLP	1.3	mg/L	0.2	8/7/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-208-0.3	1. TTLC	780	mg/Kg	5	7/17/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-208-0.3	3. STLC-DI	0.2	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-208-0.3	2. STLC	58	mg/L	1.6	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-208-0.3	4. TCLP	1.9	mg/L	0.2	8/16/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-208-0.6	1. TTLC	770	mg/Kg	5	7/17/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-208-0.6	3. STLC-DI	0.2	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-208-0.6	2. STLC	74	mg/L	1.6	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-208-0.6	4. TCLP	0.72	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-209-0	1. TTLC	470	mg/Kg	5	7/17/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-209-0	5. PH	5.8	pH Units	0.1	7/18/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-209-0	3. STLC-DI	0.2	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-209-0	2. STLC	40	mg/L	1.6	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-209-0	4. TCLP	0.55	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-209-0.3	1. TTLC	580	mg/Kg	5	7/17/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-209-0.3	3. STLC-DI	0.07	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-209-0.3	2. STLC	31	mg/L	0.8	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-209-0.3	4. TCLP	0.2	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-209-0.6	1. TTLC	130	mg/Kg	5	7/17/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-209-0.6	3. STLC-DI	0.07	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-209-0.6	2. STLC	7.5	mg/L	0.2	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.9 m	570-209-0.9	1. TTLC	98	mg/Kg	5	7/17/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.9 m	570-209-0.9	3. STLC-DI	0	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.9 m	570-209-0.9	2. STLC	7.8	mg/L	0.2	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-210-0	1. TTLC	640	mg/Kg	5	7/17/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-210-0	3. STLC-DI	0.1	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-210-0	2. STLC	40	mg/L	1.6	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-210-0	4. TCLP	0.36	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-210-0.3	1. TTLC	110	mg/Kg	5	7/17/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-210-0.3	2. STLC	3.2	mg/L	0.2	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-210-0.6	1. TTLC	400	mg/Kg	5	7/17/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-210-0.6	3. STLC-DI	0.1	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill

7/15/02	0.6 m	570-210-0.6	2. STLC	29	mg/L	0.8	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-210-0.6	4. TCLP	0.57	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-211-0	1. TTLC	470	mg/Kg	5	7/17/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-211-0	3. STLC-DI	0.1	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-211-0	2. STLC	29	mg/L	0.8	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-211-0	4. TCLP	0.42	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-211-0.3	1. TTLC	60	mg/Kg	5	7/17/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-211-0.3	2. STLC	2.2	mg/L	0.2	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-211-0.6	1. TTLC	35	mg/Kg	5	7/17/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-212-0	1. TTLC	150	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-212-0	5. PH	7.5	pH Units	0.1	7/19/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-212-0	3. STLC-DI	0.1	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-212-0	2. STLC	14	mg/L	0.4	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-212-0.3	1. TTLC	10	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-212-0.6	1. TTLC	16	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-213-0	1. TTLC	85	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-213-0	3. STLC-DI	0.1	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-213-0	2. STLC	7.4	mg/L	0.2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-214-0	1. TTLC	1300	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-214-0	4. TCLP	1.3	mg/L	0.2	8/9/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-214-0.3	1. TTLC	240	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-214-0.3	3. STLC-DI	0.1	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-214-0.3	2. STLC	21	mg/L	0.8	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-214-0.3	4. TCLP	0.38	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-215-0	1. TTLC	78	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-215-0	2. STLC	3.8	mg/L	0.2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-216-0	1. TTLC	230	mg/Kg	5	7/21/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-216-0	2. STLC	17	mg/L	0.4	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-216-0	3. STLC-DI	0	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-216-0	4. TCLP	0.64	mg/L	0.2	8/14/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-216-0.3	1. TTLC	37	mg/Kg	5	7/21/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-217-0	1. TTLC	140	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-217-0	3. STLC-DI	0.1	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-217-0	2. STLC	5.8	mg/L	0.2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-218-0	1. TTLC	90	mg/Kg	5	7/21/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-218-0	2. STLC	6.5	mg/L	0.2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-218-0	3. STLC-DI	0.05	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-218-0.3	1. TTLC	180	mg/Kg	5	7/21/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-218-0.3	2. STLC	3	mg/L	0.2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-218-0.6	1. TTLC	9.8	mg/Kg	5	7/21/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-218-0.9	1. TTLC	2	mg/Kg	5	7/21/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	1.5 m	570-218-1.5	1. TTLC	5.7	mg/Kg	5	7/21/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	1.5 m	570-218-1.5	5. PH	8.1	pH Units	0.1	7/21/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-219-0	1. TTLC	100	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-219-0	2. STLC	4.5	mg/L	0.2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill

7/15/02	0.3 m	570-219-0.3	1. TTLC	72	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.3 m	570-219-0.3	2. STLC	4.8	mg/L	0.2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-219-0.6	1. TTLC	140	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-219-0.6	3. STLC-DI	0.1	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0.6 m	570-219-0.6	2. STLC	7.8	mg/L	0.2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-220-0	1. TTLC	43	mg/Kg	5	7/21/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-220-0.3	1. TTLC	17	mg/Kg	5	7/22/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-220-0.6	1. TTLC	6.7	mg/Kg	5	7/22/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-220-0.9	1. TTLC	2	mg/Kg	5	7/22/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	1.5 m	570-220-1.5	1. TTLC	7.2	mg/Kg	5	7/22/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-221-0	1. TTLC	240	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-221-0	3. STLC-DI	0.1	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-221-0	2. STLC	22	mg/L	0.8	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/15/02	0 m	570-221-0	4. TCLP	0.27	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-222-0	1. TTLC	25	mg/Kg	5	7/22/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-222-0.3	1. TTLC	8.4	mg/Kg	5	7/22/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-222-0.6	1. TTLC	27	mg/Kg	5	7/22/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-222-0.9	1. TTLC	30	mg/Kg	5	7/22/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	1.5 m	570-222-1.5	1. TTLC	32	mg/Kg	5	7/22/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	1.5 m	570-222-1.5	5. PH	7.9	pH Units	0.1	7/21/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-223-0	1. TTLC	330	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-223-0	2. STLC	24	mg/L	0.8	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-223-0	3. STLC-DI	0.05	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-223-0	4. TCLP	0.23	mg/L	0.2	8/14/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-223-0.3	1. TTLC	96	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-223-0.3	2. STLC	4.4	mg/L	0.2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-224-0	1. TTLC	310	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-224-0	2. STLC	26	mg/L	0.8	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-224-0	3. STLC-DI	0	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-224-0	4. TCLP	0.37	mg/L	0.2	8/14/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-224-0.3	1. TTLC	18	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-224-0.6	1. TTLC	41	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-225-0	1. TTLC	170	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-225-0	2. STLC	17	mg/L	0.4	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-225-0	3. STLC-DI	0	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-225-0	4. TCLP	0.1	mg/L	0.2	8/14/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-225-0.3	1. TTLC	110	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-225-0.3	2. STLC	4.7	mg/L	0.2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/19/02	0 m	570-226-0	1. TTLC	16	mg/Kg	5	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/19/02	0.3 m	570-226-0.3	1. TTLC	5.9	mg/Kg	5	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/19/02	0.6 m	570-226-0.6	1. TTLC	9.5	mg/Kg	5	7/25/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-227-0	1. TTLC	48	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-227-0	5. PH	7.9	pH Units	0.1	7/21/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-227-0.3	1. TTLC	68	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-227-0.3	2. STLC	4.2	mg/L	0.2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill

7/17/02	0 m	570-301-0	1. TTLC	270	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-301-0	2. STLC	53	mg/L	2	7/30/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-301-0	3. STLC-DI	0.26	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-301-0	4. TCLP	1.3	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-301-0.3	1. TTLC	59	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-301-0.3	2. STLC	5.3	mg/L	0.2	7/30/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-301-0.3	3. STLC-DI	0.1	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-301-0.6	1. TTLC	30	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-302-0	1. TTLC	5.7	mg/Kg	5	7/22/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-302-0.3	1. TTLC	48	mg/Kg	5	7/22/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-302-0.6	1. TTLC	7.9	mg/Kg	5	7/22/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-302-0.9	1. TTLC	34	mg/Kg	5	7/22/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	1.5 m	570-302-1.5	1. TTLC	3	mg/Kg	5	7/22/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-303-0	1. TTLC	66	mg/Kg	5	7/22/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-303-0	2. STLC	58	mg/L	2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-303-0	3. STLC-DI	0	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-303-0	4. TCLP	0.2	mg/L	0.2	8/14/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-303-0.3	1. TTLC	120	mg/Kg	5	7/22/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-303-0.3	2. STLC	14	mg/L	0.4	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-303-0.3	3. STLC-DI	0	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-303-0.6	1. TTLC	100	mg/Kg	5	7/22/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-303-0.6	2. STLC	1.1	mg/L	0.2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-303-0.9	1. TTLC	25	mg/Kg	5	7/22/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	1.5 m	570-303-1.5	1. TTLC	3	mg/Kg	5	7/22/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-304-0	1. TTLC	930	mg/Kg	5	7/22/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-304-0	5. PH	7.3	pH Units	0.1	7/21/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-304-0	2. STLC	25	mg/L	0.8	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-304-0	3. STLC-DI	0.05	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-304-0	4. TCLP	0.1	mg/L	0.2	8/14/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-304-0.3	1. TTLC	160	mg/Kg	5	7/21/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-304-0.3	2. STLC	17	mg/L	0.4	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-304-0.3	3. STLC-DI	0.05	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-304-0.3	4. TCLP	0.2	mg/L	0.2	8/14/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-304-0.6	1. TTLC	130	mg/Kg	5	7/21/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-304-0.6	2. STLC	1.4	mg/L	0.2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-304-0.9	1. TTLC	4	mg/Kg	5	7/21/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	1.5 m	570-304-1.5	1. TTLC	160	mg/Kg	5	7/21/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	1.5 m	570-304-1.5	2. STLC	0.1	mg/L	0.2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-305-0	1. TTLC	590	mg/Kg	5	7/21/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-305-0	2. STLC	79	mg/L	2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-305-0	3. STLC-DI	0.06	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-305-0	4. TCLP	1.2	mg/L	0.2	8/14/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-305-0.3	1. TTLC	9.3	mg/Kg	5	7/21/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-305-0.6	1. TTLC	4	mg/Kg	5	7/21/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-305-0.9	1. TTLC	3	mg/Kg	5	7/21/02	Lead	Soil	Advanced Technology Lab., Signal Hill

7/16/02	1.5 m	570-305-1.5	1. TTLC	5.5	mg/Kg	5	7/21/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-306-0	1. TTLC	6.2	mg/Kg	5	7/21/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-306-0.3	1. TTLC	19	mg/Kg	5	7/21/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-306-0.6	1. TTLC	49	mg/Kg	5	7/21/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-306-0.6	5. PH	6.7	pH Units	0.1	7/21/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-306-0.9	1. TTLC	9.3	mg/Kg	5	7/21/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	1.5 m	570-306-1.5	1. TTLC	8.1	mg/Kg	5	7/21/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-307-0	1. TTLC	8.7	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-307-0.3	1. TTLC	130	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-307-0.3	5. PH	8	pH Units	0.1	7/21/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-307-0.3	2. STLC	0.07	mg/L	0.2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-307-0.6	1. TTLC	24	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-307-0.9	1. TTLC	12	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	1.5 m	570-307-1.5	1. TTLC	7.6	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-308-0	1. TTLC	220	mg/Kg	5	7/19/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-308-0	2. STLC	16	mg/L	0.4	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-308-0	3. STLC-DI	0	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-308-0	4. TCLP	0.25	mg/L	0.2	8/14/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-308-0.3	1. TTLC	11	mg/Kg	5	7/19/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-308-0.6	1. TTLC	7.3	mg/Kg	5	7/19/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-308-0.9	1. TTLC	12	mg/Kg	5	7/19/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	1.5 m	570-308-1.5	1. TTLC	8.6	mg/Kg	5	7/19/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-309-0	1. TTLC	85	mg/Kg	5	7/19/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-309-0	2. STLC	3.2	mg/L	0.2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-309-0.3	1. TTLC	96	mg/Kg	5	7/19/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-309-0.3	2. STLC	6.1	mg/L	0.2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-309-0.3	3. STLC-DI	0	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-311-0	1. TTLC	46	mg/Kg	5	7/19/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-311-0.3	1. TTLC	27	mg/Kg	5	7/19/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-311-0.6	1. TTLC	1500	mg/Kg	5	7/19/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-311-0.6	5. PH	7.7	pH Units	0.1	7/21/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-311-0.6	4. TCLP	5.8	mg/L	0.2	8/6/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-311-0.9	1. TTLC	19	mg/Kg	5	7/19/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	1.5 m	570-311-1.5	1. TTLC	670	mg/Kg	5	7/19/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	1.5 m	570-311-1.5	2. STLC	58	mg/L	2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	1.5 m	570-311-1.5	3. STLC-DI	0.41	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	1.5 m	570-311-1.5	4. TCLP	2.5	mg/L	0.2	8/14/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-312-0	1. TTLC	45	mg/Kg	5	7/19/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-312-0.3	1. TTLC	490	mg/Kg	5	7/19/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-312-0.3	2. STLC	31	mg/L	0.8	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-312-0.3	3. STLC-DI	0	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-312-0.3	4. TCLP	0.23	mg/L	0.2	8/14/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-312-0.6	1. TTLC	1900	mg/Kg	5	7/19/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-312-0.6	4. TCLP	0.72	mg/L	0.2	8/6/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-312-0.9	1. TTLC	7.5	mg/Kg	5	7/19/02	Lead	Soil	Advanced Technology Lab., Signal Hill

7/16/02	1.5 m	570-312-1.5	1. TTLC	6	mg/Kg	5	7/19/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-313-0	1. TTLC	17	mg/Kg	5	7/19/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-313-0.3	1. TTLC	10	mg/Kg	5	7/19/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-313-0.3	5. PH	8.5	pH Units	0.1	7/21/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-313-0.6	1. TTLC	160	mg/Kg	5	7/19/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-313-0.6	2. STLC	19	mg/L	0.4	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-313-0.6	3. STLC-DI	0.05	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-313-0.6	4. TCLP	1	mg/L	0.2	8/14/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-313-0.9	1. TTLC	9.8	mg/Kg	5	7/19/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	1.5 m	570-313-1.5	1. TTLC	24	mg/Kg	5	7/19/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-314-0	1. TTLC	120	mg/Kg	5	7/19/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-314-0	2. STLC	8.9	mg/L	0.2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-314-0	3. STLC-DI	0.1	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-314-0.3	1. TTLC	13	mg/Kg	5	7/19/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-314-0.6	1. TTLC	920	mg/Kg	5	7/19/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-314-0.6	2. STLC	76	mg/L	2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-314-0.6	3. STLC-DI	0	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-314-0.6	4. TCLP	3.9	mg/L	0.2	8/16/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-314-0.9	1. TTLC	9.5	mg/Kg	5	7/19/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	1.5 m	570-314-1.5	1. TTLC	49	mg/Kg	5	7/19/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-315-0	1. TTLC	48	mg/Kg	5	7/22/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-315-0.3	1. TTLC	9.3	mg/Kg	5	7/22/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-315-0.3	5. PH	8.3	pH Units	0.1	7/21/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-315-0.6	1. TTLC	50	mg/Kg	5	7/19/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-315-0.6	2. STLC	4.2	mg/L	0.2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-315-0.9	1. TTLC	5.6	mg/Kg	5	7/19/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	1.5 m	570-315-1.5	1. TTLC	6.7	mg/Kg	5	7/19/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-316-0	1. TTLC	22	mg/Kg	5	7/22/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-316-0.3	1. TTLC	17	mg/Kg	5	7/22/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-316-0.6	1. TTLC	39	mg/Kg	5	7/22/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-316-0.9	1. TTLC	16	mg/Kg	5	7/22/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	1.5 m	570-316-1.5	1. TTLC	4	mg/Kg	5	7/22/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-317-0	1. TTLC	62	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-317-0	5. PH	8.6	pH Units	0.1	7/23/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-317-0	2. STLC	5.5	mg/L	0.2	7/30/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-317-0	3. STLC-DI	0.2	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-317-0.3	1. TTLC	36	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-317-0.6	1. TTLC	190	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-317-0.6	2. STLC	4.7	mg/L	0.2	7/30/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.9 m	570-317-0.9	1. TTLC	5.4	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	1.5 m	570-317-1.5	1. TTLC	5.2	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-401-0	1. TTLC	400	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-401-0	2. STLC	30	mg/L	0.8	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-401-0	3. STLC-DI	0.1	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-401-0	4. TCLP	0.95	mg/L	0.2	8/16/02	Lead	Soil	Advanced Technology Lab., Signal Hill

7/16/02	0.3 m	570-401-0.3	1. TTLC	240	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-401-0.3	2. STLC	17	mg/L	0.4	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-401-0.3	3. STLC-DI	0.1	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-401-0.3	4. TCLP	1.7	mg/L	0.2	8/16/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-401-0.6	1. TTLC	40	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-401-0.6	4. TCLP	0	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-401-0.9	1. TTLC	99	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-401-0.9	2. STLC	4.1	mg/L	0.2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-401-0.9	4. TCLP	0.2	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	1.5 m	570-401-1.5	1. TTLC	49	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	1.5 m	570-401-1.5	4. TCLP	0	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-408-0	1. TTLC	61	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-408-0	2. STLC	4	mg/L	0.2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-408-0	4. TCLP	0.09	mg/L	0.2	8/14/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-408-0.3	1. TTLC	11	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-408-0.6	1. TTLC	47	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-408-0.6	4. TCLP	0.07	mg/L	0.2	8/14/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-408-0.9	1. TTLC	18	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	1.5 m	570-408-1.5	1. TTLC	36	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	1.5 m	570-408-1.5	4. TCLP	0.08	mg/L	0.2	8/14/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-409-0	1. TTLC	230	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-409-0	2. STLC	17	mg/L	0.4	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-409-0	3. STLC-DI	0	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-409-0	4. TCLP	0.1	mg/L	0.2	8/14/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-409-0.3	1. TTLC	59	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-409-0.3	2. STLC	3	mg/L	0.2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-409-0.3	4. TCLP	0.06	mg/L	0.2	8/14/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-501-0	1. TTLC	200	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-501-0	5. PH	7.6	pH Units	0.1	7/21/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-501-0	2. STLC	9.6	mg/L	0.2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-501-0	3. STLC-DI	0	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-501-0.3	1. TTLC	20	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-502-0	1. TTLC	65	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-502-0	2. STLC	2.4	mg/L	0.2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-502-0.3	1. TTLC	25	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-503-0	1. TTLC	72	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-503-0	2. STLC	1.2	mg/L	0.2	7/30/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-503-0.3	1. TTLC	21	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-503-0.6	1. TTLC	300	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-503-0.6	2. STLC	31	mg/L	0.8	7/30/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-503-0.6	3. STLC-DI	0.2	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-503-0.6	4. TCLP	0.23	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.9 m	570-503-0.9	1. TTLC	6.2	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	1.5 m	570-503-1.5	1. TTLC	6	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-504-0	1. TTLC	1100	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill

7/17/02	0 m	570-504-0	5. PH	7.8	pH Units	0.1	7/23/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-504-0	4. TCLP	1.9	mg/L	0.2	8/6/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-504-0.3	1. TTLC	6	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-504-0.6	1. TTLC	1100	mg/Kg	5	8/14/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-504-0.6	2. STLC	100	mg/L	4	7/30/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-504-0.6	3. STLC-DI	0.73	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-504-0.6	4. TCLP	3.7	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.9 m	570-504-0.9	1. TTLC	540	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.9 m	570-504-0.9	2. STLC	0.08	mg/L	0.2	7/30/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	1.5 m	570-504-1.5	1. TTLC	32	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-505-0	1. TTLC	9.8	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-505-0.3	1. TTLC	6.7	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-505-0.6	1. TTLC	560	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-505-0.6	2. STLC	75	mg/L	2	7/30/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-505-0.6	3. STLC-DI	0.37	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-505-0.6	4. TCLP	2.1	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.9 m	570-505-0.9	1. TTLC	140	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.9 m	570-505-0.9	2. STLC	1.6	mg/L	0.2	7/30/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	1.5 m	570-505-1.5	1. TTLC	33	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-506-0	1. TTLC	210	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-506-0	5. PH	8.6	pH Units	0.1	7/23/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-506-0	2. STLC	18	mg/L	0.4	7/30/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-506-0	3. STLC-DI	0.39	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-506-0	4. TCLP	1.1	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-506-0.3	1. TTLC	13	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-506-0.6	1. TTLC	33	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.9 m	570-506-0.9	1. TTLC	360	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.9 m	570-506-0.9	2. STLC	0.1	mg/L	0.2	7/30/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	1.5 m	570-506-1.5	1. TTLC	20	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-507-0	1. TTLC	150	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-507-0	2. STLC	8.3	mg/L	0.2	7/31/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-507-0	3. STLC-DI	0	mg/L	0.2	8/7/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-507-0.3	1. TTLC	14	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-507-0.6	1. TTLC	160	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-507-0.6	2. STLC	9.4	mg/L	0.2	7/31/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-507-0.6	3. STLC-DI	0	mg/L	0.2	8/7/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.9 m	570-507-0.9	1. TTLC	10	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	1.5 m	570-507-1.5	1. TTLC	5.4	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	1.5 m	570-507-1.5	5. PH	7.9	pH Units	0.1	7/23/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-508-0	1. TTLC	1700	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-508-0	4. TCLP	0.09	mg/L	0.2	8/6/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-508-0.3	1. TTLC	350	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-508-0.3	2. STLC	0.69	mg/L	0.2	7/30/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-508-0.6	1. TTLC	560	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-508-0.6	2. STLC	60	mg/L	2	7/30/02	Lead	Soil	Advanced Technology Lab., Signal Hill

7/17/02	0.6 m	570-508-0.6	3. STLC-DI	0.23	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-508-0.6	4. TCLP	2.4	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.9 m	570-508-0.9	1. TTLC	16	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	1.5 m	570-508-1.5	1. TTLC	28	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-509-0	1. TTLC	5.8	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-509-0	5. PH	7.3	pH Units	0.1	7/23/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-509-0.3	1. TTLC	8.6	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-509-0.6	1. TTLC	7.2	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.9 m	570-509-0.9	1. TTLC	330	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.9 m	570-509-0.9	2. STLC	29	mg/L	0.8	7/30/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.9 m	570-509-0.9	3. STLC-DI	0.2	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.9 m	570-509-0.9	4. TCLP	0.99	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	1.5 m	570-509-1.5	1. TTLC	5	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-510-0	1. TTLC	360	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-510-0	2. STLC	25	mg/L	0.8	7/31/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-510-0	3. STLC-DI	0	mg/L	0.2	8/7/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-510-0	4. TCLP	0.23	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-510-0.3	1. TTLC	15	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-510-0.6	1. TTLC	180	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-510-0.6	2. STLC	31	mg/L	0.8	7/31/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-510-0.6	3. STLC-DI	0	mg/L	0.2	8/7/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-510-0.6	4. TCLP	1	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.9 m	570-510-0.9	1. TTLC	18	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	1.5 m	570-510-1.5	1. TTLC	9.5	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-511-0	1. TTLC	32	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-511-0.3	1. TTLC	28	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-511-0.6	1. TTLC	9.8	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.9 m	570-511-0.9	1. TTLC	48	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	1.5 m	570-511-1.5	1. TTLC	47	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	1.5 m	570-511-1.5	5. PH	8	pH Units	0.1	7/23/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-512-0	1. TTLC	130	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-512-0	2. STLC	8.8	mg/L	0.2	7/31/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-512-0	3. STLC-DI	0	mg/L	0.2	8/7/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-512-0.3	1. TTLC	11	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-512-0.6	1. TTLC	360	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-512-0.6	2. STLC	3.7	mg/L	0.2	7/31/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.9 m	570-512-0.9	1. TTLC	11	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	1.5 m	570-512-1.5	1. TTLC	4	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-513-0	1. TTLC	240	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-513-0	2. STLC	32	mg/L	0.8	7/31/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-513-0	3. STLC-DI	0.2	mg/L	0.2	8/7/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-513-0	4. TCLP	0.84	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-513-0.3	1. TTLC	380	mg/Kg	5	8/14/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-513-0.3	2. STLC	12	mg/L	0.4	7/31/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-513-0.3	3. STLC-DI	0	mg/L	0.2	8/7/02	Lead	Soil	Advanced Technology Lab., Signal Hill

7/17/02	0.6 m	570-513-0.6	1. TTLC	510	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-513-0.6	2. STLC	22	mg/L	0.8	7/31/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-513-0.6	3. STLC-DI	0	mg/L	0.2	8/7/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-513-0.6	4. TCLP	0.22	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.9 m	570-513-0.9	1. TTLC	6.7	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	1.5 m	570-513-1.5	1. TTLC	6.5	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	1.5 m	570-513-1.5	5. PH	7	pH Units	0.1	7/23/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-514-0	1. TTLC	43	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-514-0.3	1. TTLC	9.9	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-514-0.6	1. TTLC	15	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.9 m	570-514-0.9	1. TTLC	14	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	1.5 m	570-514-1.5	1. TTLC	15	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-515-0	1. TTLC	140	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-515-0	2. STLC	5.3	mg/L	0.2	7/31/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-515-0	3. STLC-DI	0	mg/L	0.2	8/7/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-515-0.3	1. TTLC	61	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-515-0.3	2. STLC	120	mg/L	3.2	7/31/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-515-0.3	3. STLC-DI	0	mg/L	0.2	8/7/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-515-0.3	4. TCLP	0.1	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-515-0.6	1. TTLC	39	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.9 m	570-515-0.9	1. TTLC	8.4	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	1.5 m	570-515-1.5	1. TTLC	7.1	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	1.5 m	570-515-1.5	5. PH	7.6	pH Units	0.1	7/23/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-516-0	1. TTLC	33	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-516-0	5. PH	7	pH Units	0.1	7/23/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-516-0.3	1. TTLC	30	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-516-0.6	1. TTLC	68	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-516-0.6	2. STLC	5.6	mg/L	0.2	7/29/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-516-0.6	3. STLC-DI	0	mg/L	0.2	8/7/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.9 m	570-516-0.9	1. TTLC	9.3	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	1.5 m	570-516-1.5	1. TTLC	33	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-517-0	1. TTLC	3200	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-517-0	4. TCLP	6.6	mg/L	0.2	8/6/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-517-0.3	1. TTLC	1500	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-517-0.3	4. TCLP	0.89	mg/L	0.2	8/6/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-517-0.6	1. TTLC	270	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-517-0.6	2. STLC	3	mg/L	0.2	7/29/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.9 m	570-517-0.9	1. TTLC	13	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	1.5 m	570-517-1.5	1. TTLC	11	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-518-0	1. TTLC	240	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-518-0	5. PH	8.2	pH Units	0.1	7/23/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-518-0	2. STLC	15	mg/L	0.4	7/29/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-518-0	3. STLC-DI	0	mg/L	0.2	8/7/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-518-0	4. TCLP	0.2	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-518-0.3	1. TTLC	6.5	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill

7/17/02	0.6 m	570-518-0.6	1. TTLC	24	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.9 m	570-518-0.9	1. TTLC	12	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	1.5 m	570-518-1.5	1. TTLC	19	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0 m	570-519-0	1. TTLC	300	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0 m	570-519-0	2. STLC	1.6	mg/L	0.2	7/31/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.3 m	570-519-0.3	1. TTLC	33	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.6 m	570-519-0.6	1. TTLC	16	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.9 m	570-519-0.9	1. TTLC	5.2	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	1.5 m	570-519-1.5	1. TTLC	5.4	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-601-0	1. TTLC	460	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-601-0	5. PH	7	pH Units	0.1	7/21/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-601-0	2. STLC	26	mg/L	0.8	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-601-0	3. STLC-DI	0	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-601-0	4. TCLP	0.2	mg/L	0.2	8/14/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-601-0.3	1. TTLC	44	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-601-0.6	1. TTLC	47	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-601-0.9	1. TTLC	140	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-601-0.9	2. STLC	5.9	mg/L	0.2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-601-0.9	3. STLC-DI	0	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-602-0	1. TTLC	570	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-602-0	2. STLC	41	mg/L	2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-602-0	3. STLC-DI	0	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-602-0	4. TCLP	0.47	mg/L	0.2	8/14/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-602-0.3	1. TTLC	67	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-602-0.3	2. STLC	5.1	mg/L	0.2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-602-0.3	3. STLC-DI	0	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-602-0.6	1. TTLC	110	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-602-0.6	2. STLC	7.1	mg/L	0.2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-602-0.6	3. STLC-DI	0	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-602-0.9	1. TTLC	130	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-602-0.9	2. STLC	7.2	mg/L	0.2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-602-0.9	3. STLC-DI	0	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-603-0	1. TTLC	650	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-603-0	2. STLC	28	mg/L	0.8	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-603-0	3. STLC-DI	0.08	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-603-0	4. TCLP	0.27	mg/L	0.2	8/14/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-603-0.3	1. TTLC	140	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-603-0.3	2. STLC	46	mg/L	2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-603-0.3	3. STLC-DI	0.21	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-603-0.3	4. TCLP	1	mg/L	0.2	8/14/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-603-0.6	1. TTLC	170	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-603-0.6	5. PH	7.4	pH Units	0.1	7/21/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-603-0.6	2. STLC	10	mg/L	0.2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-603-0.6	3. STLC-DI	0.2	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-610-0	1. TTLC	72	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill

7/16/02	0 m	570-610-0	2. STLC	4.7	mg/L	0.2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-610-0.3	1. TTLC	9.6	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-610-0.6	1. TTLC	1900	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-610-0.6	4. TCLP	12	mg/L	0.4	8/6/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-610-0.9	1. TTLC	380	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-610-0.9	2. STLC	29	mg/L	0.8	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-610-0.9	3. STLC-DI	0	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-610-0.9	4. TCLP	0.84	mg/L	0.2	8/14/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-611-0	1. TTLC	200	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-611-0	2. STLC	12	mg/L	0.4	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-611-0	3. STLC-DI	0	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-611-0.3	1. TTLC	6.8	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-612-0	1. TTLC	5.2	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-612-0.3	1. TTLC	25	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-612-0.3	5. PH	8.9	pH Units	0.1	7/21/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-612-0.6	1. TTLC	55	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-612-0.6	2. STLC	2.1	mg/L	0.2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-612-0.9	1. TTLC	4	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	1.5 m	570-612-1.5	1. TTLC	3	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-613-0	1. TTLC	80	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-613-0	2. STLC	1.9	mg/L	0.2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-613-0.3	1. TTLC	7.9	mg/Kg	5	7/20/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-613-0.6	1. TTLC	83	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-613-0.6	2. STLC	14	mg/L	0.4	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-613-0.6	3. STLC-DI	0.08	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-613-0.9	1. TTLC	20	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-614-0	1. TTLC	260	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-614-0	2. STLC	34	mg/L	0.8	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-614-0	3. STLC-DI	0.09	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-614-0	4. TCLP	0.05	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-614-0.3	1. TTLC	270	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-614-0.3	2. STLC	0.9	mg/L	0.2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-614-0.6	1. TTLC	260	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-614-0.6	2. STLC	26	mg/L	0.8	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-614-0.6	3. STLC-DI	0.1	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-614-0.6	4. TCLP	0.5	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-614-0.9	1. TTLC	5.1	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	1.5 m	570-614-1.5	1. TTLC	5.6	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-615-0	1. TTLC	1100	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-615-0	4. TCLP	0.3	mg/L	0.2	8/6/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-615-0.3	1. TTLC	5.6	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-615-0.6	1. TTLC	920	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-615-0.6	5. PH	8.3	pH Units	0.1	7/21/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-615-0.6	2. STLC	84	mg/L	2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-615-0.6	3. STLC-DI	0.1	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill

7/16/02	0.6 m	570-615-0.6	4. TCLP	0.45	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-615-0.9	1. TTLC	9.4	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	1.5 m	570-615-1.5	1. TTLC	11	mg/Kg	5	7/19/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-616-0	1. TTLC	380	mg/Kg	5	7/19/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-616-0	2. STLC	23	mg/L	0.8	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-616-0	3. STLC-DI	0.09	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-616-0	4. TCLP	0.06	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-616-0.3	1. TTLC	99	mg/Kg	5	7/19/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-616-0.3	2. STLC	8	mg/L	0.2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-616-0.3	3. STLC-DI	0.08	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-616-0.6	1. TTLC	630	mg/Kg	5	7/19/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-616-0.6	2. STLC	17	mg/L	0.4	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-616-0.6	3. STLC-DI	0.31	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-616-0.6	4. TCLP	2.6	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-616-0.9	1. TTLC	8.7	mg/Kg	5	7/19/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-617-0	1. TTLC	300	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-617-0	2. STLC	21	mg/L	0.8	7/29/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-617-0	3. STLC-DI	0.25	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-617-0	4. TCLP	0.8	mg/L	0.2	8/16/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-617-0.3	1. TTLC	260	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-617-0.3	2. STLC	16	mg/L	0.4	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-617-0.3	3. STLC-DI	0	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-617-0.3	4. TCLP	0.1	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-617-0.6	1. TTLC	34	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-618-0	1. TTLC	150	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-618-0	2. STLC	13	mg/L	0.4	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-618-0	3. STLC-DI	0.05	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-618-0.3	1. TTLC	41	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-618-0.3	5. PH	7.6	pH Units	0.1	7/21/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-618-0.6	1. TTLC	7	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-618-0.9	1. TTLC	6.5	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	1.5 m	570-618-1.5	1. TTLC	5.8	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-619-0	1. TTLC	68	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-619-0	2. STLC	9	mg/L	0.2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-619-0	3. STLC-DI	0.05	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-619-0.3	1. TTLC	15	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-619-0.6	1. TTLC	6.1	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-619-0.9	1. TTLC	7.8	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	1.5 m	570-619-1.5	1. TTLC	7.2	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-620-0	1. TTLC	74	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-620-0	2. STLC	7.2	mg/L	0.2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-620-0	3. STLC-DI	0.05	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-620-0.3	1. TTLC	37	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-621-0	1. TTLC	69	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-621-0	5. PH	8.1	pH Units	0.1	7/21/02	pH	Soil	Advanced Technology Lab., Signal Hill

7/16/02	0 m	570-621-0	2. STLC	3.6	mg/L	0.2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-621-0.3	1. TTLC	23	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-621-0.6	1. TTLC	11	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0 m	570-701-0	1. TTLC	120	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0 m	570-701-0	2. STLC	6.8	mg/L	0.2	7/31/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0 m	570-701-0	3. STLC-DI	0.1	mg/L	0.2	8/7/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.3 m	570-701-0.3	1. TTLC	21	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.6 m	570-701-0.6	1. TTLC	300	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.6 m	570-701-0.6	2. STLC	16	mg/L	0.4	7/31/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.6 m	570-701-0.6	3. STLC-DI	0	mg/L	0.2	8/7/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.6 m	570-701-0.6	4. TCLP	0.23	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.9 m	570-701-0.9	1. TTLC	5.5	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	1.5 m	570-701-1.5	1. TTLC	2	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0 m	570-702-0	1. TTLC	180	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0 m	570-702-0	2. STLC	0.3	mg/L	0.2	7/31/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.3 m	570-702-0.3	1. TTLC	13	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.6 m	570-702-0.6	1. TTLC	15	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.9 m	570-702-0.9	1. TTLC	5.2	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	1.5 m	570-702-1.5	1. TTLC	4	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0 m	570-703-0	1. TTLC	800	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0 m	570-703-0	2. STLC	55	mg/L	2	7/31/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0 m	570-703-0	3. STLC-DI	0.09	mg/L	0.2	8/7/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0 m	570-703-0	4. TCLP	0.92	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.3 m	570-703-0.3	1. TTLC	370	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.3 m	570-703-0.3	5. PH	7.5	pH Units	0.1	7/23/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.3 m	570-703-0.3	2. STLC	30	mg/L	0.8	7/31/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.3 m	570-703-0.3	3. STLC-DI	0	mg/L	0.2	8/7/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.3 m	570-703-0.3	4. TCLP	3.5	mg/L	0.2	8/16/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0 m	570-704-0	1. TTLC	540	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0 m	570-704-0	2. STLC	63	mg/L	2	7/31/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0 m	570-704-0	3. STLC-DI	0.33	mg/L	0.2	8/7/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0 m	570-704-0	4. TCLP	0.51	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.3 m	570-704-0.3	1. TTLC	370	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.3 m	570-704-0.3	2. STLC	22	mg/L	0.8	7/31/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.3 m	570-704-0.3	3. STLC-DI	0.25	mg/L	0.2	8/7/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.3 m	570-704-0.3	4. TCLP	0.35	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0 m	570-706-0	1. TTLC	1100	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0 m	570-706-0	4. TCLP	1.6	mg/L	0.2	8/6/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.3 m	570-706-0.3	1. TTLC	670	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.3 m	570-706-0.3	5. PH	7.2	pH Units	0.1	7/23/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.3 m	570-706-0.3	2. STLC	60	mg/L	2	7/31/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.3 m	570-706-0.3	3. STLC-DI	0.42	mg/L	0.2	8/7/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.3 m	570-706-0.3	4. TCLP	1.2	mg/L	0.2	8/16/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.6 m	570-706-0.6	1. TTLC	7	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.9 m	570-706-0.9	1. TTLC	5.1	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill

7/18/02	1.5 m	570-706-1.5	1. TTLC	5.1	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0 m	570-707-0	1. TTLC	250	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0 m	570-707-0	5. PH	7.4	pH Units	0.1	7/23/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0 m	570-707-0	2. STLC	15	mg/L	0.4	7/31/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0 m	570-707-0	3. STLC-DI	0	mg/L	0.2	8/7/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0 m	570-707-0	4. TCLP	0.2	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.3 m	570-707-0.3	1. TTLC	87	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.3 m	570-707-0.3	2. STLC	5.2	mg/L	0.2	7/31/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.3 m	570-707-0.3	3. STLC-DI	0	mg/L	0.2	8/7/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.6 m	570-707-0.6	1. TTLC	730	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.6 m	570-707-0.6	2. STLC	25	mg/L	0.8	7/31/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.6 m	570-707-0.6	3. STLC-DI	0.1	mg/L	0.2	8/7/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.6 m	570-707-0.6	4. TCLP	0.65	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.9 m	570-707-0.9	1. TTLC	27	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0 m	570-708-0	1. TTLC	68	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0 m	570-708-0	2. STLC	3.7	mg/L	0.2	7/31/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.3 m	570-708-0.3	1. TTLC	9.9	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.6 m	570-708-0.6	1. TTLC	600	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.6 m	570-708-0.6	2. STLC	27	mg/L	0.8	7/31/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.6 m	570-708-0.6	3. STLC-DI	0	mg/L	0.2	8/7/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.6 m	570-708-0.6	4. TCLP	0.5	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.9 m	570-708-0.9	1. TTLC	15	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	1.5 m	570-708-1.5	1. TTLC	69	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	1.5 m	570-708-1.5	2. STLC	0.33	mg/L	0.2	7/31/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0 m	570-709-0	1. TTLC	1100	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0 m	570-709-0	5. PH	8.5	pH Units	0.1	7/23/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0 m	570-709-0	4. TCLP	0.2	mg/L	0.2	8/6/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.3 m	570-709-0.3	1. TTLC	16	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.6 m	570-709-0.6	1. TTLC	110	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.6 m	570-709-0.6	2. STLC	57	mg/L	2	7/31/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.6 m	570-709-0.6	3. STLC-DI	0.2	mg/L	0.2	8/7/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.6 m	570-709-0.6	4. TCLP	0.51	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.9 m	570-709-0.9	1. TTLC	17	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	1.5 m	570-709-1.5	1. TTLC	730	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	1.5 m	570-709-1.5	2. STLC	0.07	mg/L	0.2	7/31/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0 m	570-710-0	1. TTLC	37	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.3 m	570-710-0.3	1. TTLC	19	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.6 m	570-710-0.6	1. TTLC	430	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.6 m	570-710-0.6	2. STLC	26	mg/L	0.8	7/31/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.6 m	570-710-0.6	3. STLC-DI	0	mg/L	0.2	8/7/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.6 m	570-710-0.6	4. TCLP	0.77	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.9 m	570-710-0.9	1. TTLC	5.6	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	1.5 m	570-710-1.5	1. TTLC	11	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0 m	570-711-0	1. TTLC	30	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0 m	570-711-0	5. PH	7.7	pH Units	0.1	7/23/02	pH	Soil	Advanced Technology Lab., Signal Hill

7/18/02	0.3 m	570-711-0.3	1. TTLC	19	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.6 m	570-711-0.6	1. TTLC	120	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.6 m	570-711-0.6	2. STLC	46	mg/L	2	7/31/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.6 m	570-711-0.6	3. STLC-DI	0.09	mg/L	0.2	8/7/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.6 m	570-711-0.6	4. TCLP	1.4	mg/L	0.2	8/16/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.9 m	570-711-0.9	1. TTLC	5.7	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	1.5 m	570-711-1.5	1. TTLC	5	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0 m	570-712-0	1. TTLC	250	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0 m	570-712-0	2. STLC	11	mg/L	0.4	7/31/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0 m	570-712-0	3. STLC-DI	0.09	mg/L	0.2	8/7/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.3 m	570-712-0.3	1. TTLC	14	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.6 m	570-712-0.6	1. TTLC	1000	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.6 m	570-712-0.6	4. TCLP	0.88	mg/L	0.2	8/6/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.9 m	570-712-0.9	1. TTLC	18	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	1.5 m	570-712-1.5	1. TTLC	7.5	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0 m	570-713-0	1. TTLC	560	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0 m	570-713-0	5. PH	8.2	pH Units	0.1	7/23/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0 m	570-713-0	2. STLC	17	mg/L	0.4	7/31/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0 m	570-713-0	3. STLC-DI	0.2	mg/L	0.2	8/7/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0 m	570-713-0	4. TCLP	0.28	mg/L	0.2	8/16/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.3 m	570-713-0.3	1. TTLC	89	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.3 m	570-713-0.3	2. STLC	33	mg/L	0.8	7/31/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.3 m	570-713-0.3	3. STLC-DI	0.06	mg/L	0.2	8/7/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.3 m	570-713-0.3	4. TCLP	0.68	mg/L	0.2	8/16/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.6 m	570-713-0.6	1. TTLC	400	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.6 m	570-713-0.6	2. STLC	28	mg/L	0.8	7/31/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.6 m	570-713-0.6	3. STLC-DI	0.05	mg/L	0.2	8/7/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.6 m	570-713-0.6	4. TCLP	1.3	mg/L	0.2	8/16/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	0.9 m	570-713-0.9	1. TTLC	20	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/18/02	1.5 m	570-713-1.5	1. TTLC	7.2	mg/Kg	5	7/24/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-801-0	1. TTLC	44	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-801-0.3	1. TTLC	13	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-801-0.6	1. TTLC	14	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-801-0.9	1. TTLC	36	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	1.5 m	570-801-1.5	1. TTLC	9.9	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-802-0	1. TTLC	63	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0 m	570-802-0	2. STLC	2.8	mg/L	0.2	7/26/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.3 m	570-802-0.3	1. TTLC	22	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.6 m	570-802-0.6	1. TTLC	39	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-802-0.9	1. TTLC	33	mg/Kg	5	7/18/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/16/02	0.9 m	570-802-0.9	5. PH	8.7	pH Units	0.1	7/21/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-803-0	1. TTLC	140	mg/Kg	5	7/22/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-803-0	2. STLC	1	mg/L	0.2	7/31/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-803-0.3	1. TTLC	340	mg/Kg	5	7/22/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-803-0.3	2. STLC	5	mg/L	0.2	7/31/02	Lead	Soil	Advanced Technology Lab., Signal Hill

7/17/02	0.6 m	570-803-0.6	1. TTLC	260	mg/Kg	5	7/22/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-803-0.6	2. STLC	7	mg/L	0.2	7/31/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-803-0.6	3. STLC-DI	0	mg/L	0.2	8/7/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.9 m	570-803-0.9	1. TTLC	3	mg/Kg	5	7/22/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	1.5 m	570-803-1.5	1. TTLC	3	mg/Kg	5	7/22/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-804-0	1. TTLC	1000	mg/Kg	5	7/22/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-804-0	4. TCLP	2.8	mg/L	0.2	8/6/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-804-0.3	1. TTLC	36	mg/Kg	5	7/22/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-804-0.6	1. TTLC	720	mg/Kg	5	7/22/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-804-0.6	2. STLC	64	mg/L	1.6	7/31/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-804-0.6	3. STLC-DI	0.07	mg/L	0.2	8/7/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-804-0.6	4. TCLP	0.1	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.9 m	570-804-0.9	1. TTLC	8.8	mg/Kg	5	7/22/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	1.5 m	570-804-1.5	1. TTLC	11	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	1.5 m	570-804-1.5	5. PH	7.9	pH Units	0.1	7/23/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-805-0	1. TTLC	24	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-805-0.3	1. TTLC	150	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-805-0.3	2. STLC	14	mg/L	0.4	7/30/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-805-0.3	3. STLC-DI	0.09	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-805-0.6	1. TTLC	54	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-805-0.6	2. STLC	8.1	mg/L	0.2	7/30/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-805-0.6	3. STLC-DI	0.07	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.9 m	570-805-0.9	1. TTLC	210	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.9 m	570-805-0.9	2. STLC	36	mg/L	0.8	7/30/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.9 m	570-805-0.9	3. STLC-DI	0.07	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.9 m	570-805-0.9	4. TCLP	0.46	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-807-0	1. TTLC	83	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-807-0	2. STLC	4.3	mg/L	0.2	7/30/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-807-0.3	1. TTLC	9.2	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-807-0.6	1. TTLC	22	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.9 m	570-807-0.9	1. TTLC	280	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.9 m	570-807-0.9	2. STLC	16	mg/L	0.4	7/30/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.9 m	570-807-0.9	3. STLC-DI	0.1	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.9 m	570-807-0.9	4. TCLP	0.43	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-808-0	1. TTLC	83	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-808-0	2. STLC	5.7	mg/L	0.2	7/30/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-808-0	3. STLC-DI	0.93	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-808-0.3	1. TTLC	52	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-808-0.3	5. PH	8.8	pH Units	0.1	7/23/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-808-0.3	2. STLC	1.4	mg/L	0.2	7/30/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-808-0.6	1. TTLC	1400	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-808-0.6	4. TCLP	3.2	mg/L	0.2	8/6/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.9 m	570-808-0.9	1. TTLC	35	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-809-0	1. TTLC	7.9	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-809-0.3	1. TTLC	29	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill

7/17/02	0.6 m	570-809-0.6	1. TTLC	75	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-809-0.6	2. STLC	29	mg/L	0.8	7/30/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-809-0.6	3. STLC-DI	0.1	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-809-0.6	4. TCLP	0.2	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.9 m	570-809-0.9	1. TTLC	19	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-810-0	1. TTLC	190	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-810-0	2. STLC	7.4	mg/L	0.2	7/30/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-810-0	3. STLC-DI	0.06	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-810-0.3	1. TTLC	78	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-810-0.3	2. STLC	4.9	mg/L	0.2	7/30/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-810-0.6	1. TTLC	44	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.9 m	570-810-0.9	1. TTLC	8.4	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	1.5 m	570-810-1.5	1. TTLC	5.5	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	1.5 m	570-810-1.5	5. PH	7.4	pH Units	0.1	7/23/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-811-0	1. TTLC	560	mg/Kg	5	8/14/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-811-0	2. STLC	110	mg/L	4	7/30/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-811-0	3. STLC-DI	0.07	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-811-0	4. TCLP	0	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-811-0.3	1. TTLC	290	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-811-0.3	2. STLC	7	mg/L	0.2	7/30/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-811-0.3	3. STLC-DI	0.08	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-811-0.6	1. TTLC	670	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-811-0.6	2. STLC	15	mg/L	0.4	7/30/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-811-0.6	3. STLC-DI	0.2	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-811-0.6	4. TCLP	0.51	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.9 m	570-811-0.9	1. TTLC	40	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	1.5 m	570-811-1.5	1. TTLC	150	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	1.5 m	570-811-1.5	2. STLC	90	mg/L	2	7/30/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	1.5 m	570-811-1.5	3. STLC-DI	0.4	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	1.5 m	570-811-1.5	4. TCLP	1.4	mg/L	0.2	8/15/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-812-0	1. TTLC	17	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-812-0.3	1. TTLC	1000	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-812-0.3	4. TCLP	2.9	mg/L	0.2	8/6/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-812-0.6	1. TTLC	8.8	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.9 m	570-812-0.9	1. TTLC	14	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	1.5 m	570-812-1.5	1. TTLC	14	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-813-0	1. TTLC	48	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0 m	570-813-0	5. PH	8.2	pH Units	0.1	7/23/02	pH	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.3 m	570-813-0.3	1. TTLC	6.1	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-813-0.6	1. TTLC	130	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-813-0.6	2. STLC	6.2	mg/L	0.2	7/30/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.6 m	570-813-0.6	3. STLC-DI	0.2	mg/L	0.2	8/2/02	Lead	Soil	Advanced Technology Lab., Signal Hill
7/17/02	0.9 m	570-813-0.9	1. TTLC	26	mg/Kg	5	7/23/02	Lead	Soil	Advanced Technology Lab., Signal Hill

unique id	borehole id	Borehole Latitude	Borehole Longitude	Northing	Easting
570	570-101	34.07024753	-117.9628302	12369957.815	1348938.352
570	570-102	34.07034955	-117.9623391	12369993.531	1349087.375
570	570-103	34.07048573	-117.9612636	12370040.010	1349413.436
570	570-104	34.07062725	-117.9607644	12370090.072	1349565.044
570	570-105	34.07063536	-117.9596162	12370089.760	1349912.696
570	570-106	34.07086669	-117.958917	12370171.931	1350125.164
570	570-107	34.07086794	-117.9578473	12370169.350	1350448.993
570	570-108	34.07096663	-117.9567688	12370202.197	1350775.844
570	570-109	34.07106946	-117.9556854	12370236.540	1351104.203
570	570-110	34.07118385	-117.9545634	12370274.981	1351444.245
570	570-111	34.07131985	-117.9534706	12370321.370	1351775.561
570	570-112	34.07141609	-117.952392	12370353.341	1352102.410
570	570-113	34.07152644	-117.951199	12370390.124	1352463.962
570	570-114	34.0716379	-117.9502275	12370427.938	1352758.448
570	570-115	34.07172417	-117.9492033	12370456.445	1353068.790
570	570-116	34.07182982	-117.9484909	12370492.878	1353284.823
570	570-117	34.07196161	-117.9471661	12370537.106	1353686.355
570	570-118	34.07212867	-117.9464602	12370595.901	1353900.599
570	570-119	34.07211467	-117.9456795	12370588.624	1354136.896
570	570-120	34.07221754	-117.9451492	12370624.561	1354297.780
570	570-121	34.07249797	-117.9447294	12370725.409	1354425.815
570	570-122	34.07224623	-117.944299	12370632.622	1354555.292
570	570-123	34.07240818	-117.9437678	12370690.056	1354716.636
570	570-201	34.06968307	-117.9635809	12369754.607	1348709.138
570	570-202	34.06984227	-117.9627581	12369810.176	1348958.792
570	570-203	34.06988454	-117.9620217	12369823.458	1349181.879
570	570-204	34.06991388	-117.9611434	12369831.631	1349447.882
570	570-205	34.06989667	-117.9606649	12369824.009	1349592.675
570	570-206	34.07030993	-117.9585926	12369968.462	1350221.459
570	570-207	34.07043473	-117.957525	12370010.838	1350545.107
570	570-208	34.07054057	-117.9564331	12370046.250	1350876.030
570	570-209	34.07066156	-117.9553173	12370087.107	1351214.250
570	570-210	34.07079638	-117.9541524	12370132.861	1351567.370
570	570-211	34.07088513	-117.9530764	12370162.111	1351893.431
570	570-212	34.07099421	-117.9522571	12370199.484	1352141.812
570	570-213	34.07098328	-117.9517097	12370193.964	1352307.497

570	570-214	34.07108403	-117.9511728	12370229.104	1352470.396
570	570-215	34.07113439	-117.9506907	12370246.069	1352616.503
570	570-216	34.07118671	-117.950088	12370263.405	1352799.138
570	570-217	34.07119613	-117.9495358	12370265.281	1352966.367
570	570-218	34.07130764	-117.9490067	12370304.360	1353126.912
570	570-219	34.07131643	-117.9484563	12370306.013	1353293.584
570	570-220	34.07142212	-117.9479246	12370342.968	1353454.901
570	570-221	34.07144476	-117.9469299	12370348.417	1353756.094
570	570-222	34.07155422	-117.9464234	12370386.818	1353909.822
570	570-223	34.07164686	-117.9453114	12370417.407	1354246.776
570	570-224	34.07169993	-117.9447791	12370435.224	1354408.089
570	570-225	34.07173405	-117.9442379	12370446.123	1354572.054
570	570-226	34.07164049	-117.9436988	na	na
570	570-227	34.07154693	-117.9431597	12370375.038	1354897.842
570	570-301	34.0724797	-117.9420486	12370711.272	1355237.351
570	570-302	34.0726026	-117.9409812	12370753.009	1355560.906
570	570-303	34.07267193	-117.9399115	12370775.252	1355884.976
570	570-304	34.0726639	-117.9388017	12370769.247	1356220.898
570	570-305	34.07262632	-117.9376724	12370752.436	1356562.654
570	570-306	34.07265258	-117.9365971	12370759.008	1356888.294
570	570-307	34.07265516	-117.9354505	12370756.768	1357235.398
570	570-308	34.07265301	-117.9349238	12370754.529	1357394.856
570	570-309	34.0727424	-117.9341472	12370784.899	1357630.246
570	570-311	34.07258691	-117.9320152	12370722.444	1358275.171
570	570-312	34.07262928	-117.9308881	12370734.751	1358616.526
570	570-313	34.07260162	-117.9298261	12370721.762	1358937.927
570	570-314	34.07262383	-117.9287395	12370726.852	1359266.948
570	570-315	34.07268555	-117.9276548	12370746.324	1359595.552
570	570-316	34.07292214	-117.9270593	12370830.760	1359776.605
570	570-317	34.07259847	-117.9270428	12370712.964	1359780.536
570	570-401	34.07203893	-117.9420547	12370550.940	1355234.021
570	570-408	34.07206243	-117.9274785	12370519.152	1359646.848
570	570-409	34.07197429	-117.9272059	12370486.340	1359729.104
570	570-501	34.07266236	-117.9259547	12370733.225	1360110.156
570	570-502	34.07251181	-117.9252428	12370676.505	1360325.176
570	570-503	34.07259431	-117.9245056	12370704.497	1360548.622
570	570-504	34.07252607	-117.9234985	12370676.919	1360853.267

570	570-505	34.07249985	-117.9222265	12370663.904	1361238.263
570	570-506	34.07250837	-117.9212835	12370664.432	1361523.763
570	570-507	34.07254453	-117.9202002	12370674.633	1361851.859
570	570-508	34.0724691	-117.9189747	12370643.855	1362222.589
570	570-509	34.07251665	-117.9177817	12370657.911	1362583.931
570	570-510	34.0724412	-117.9168469	12370627.925	1362866.679
570	570-511	34.07246192	-117.9160723	12370633.360	1363101.254
570	570-512	34.07247967	-117.9150229	12370636.974	1363418.976
570	570-513	34.07243033	-117.9137572	12370615.597	1363802.008
570	570-514	34.07246594	-117.9126686	12370625.609	1364131.666
570	570-515	34.0724241	-117.9115791	12370607.445	1364461.358
570	570-516	34.07247652	-117.910528	12370623.683	1364779.733
570	570-517	34.07241796	-117.9094103	12370599.365	1365117.916
570	570-518	34.07260406	-117.908218	12370663.859	1365479.470
570	570-519	34.07238021	-117.9080839	12370582.063	1365519.346
570	570-601	34.07197718	-117.9261383	12370484.463	1360052.299
570	570-602	34.07200873	-117.9257522	12370494.881	1360169.291
570	570-603	34.0718714	-117.9254126	12370443.992	1360271.652
570	570-610	34.07203523	-117.9191771	12370486.565	1362159.911
570	570-611	34.07202789	-117.9182677	12370481.423	1362435.186
570	570-612	34.07196268	-117.9171891	12370454.768	1362761.515
570	570-613	34.07200208	-117.9161066	12370466.165	1363089.359
570	570-614	34.07200517	-117.9149864	12370464.252	1363428.492
570	570-615	34.07197981	-117.9139091	12370452.111	1363754.559
570	570-616	34.07198825	-117.9128093	12370452.206	1364087.539
570	570-617	34.07192264	-117.9114376	12370424.636	1364502.588
570	570-618	34.07185642	-117.9104575	12370397.903	1364799.063
570	570-619	34.07176844	-117.9094465	12370363.172	1365104.846
570	570-620	34.07195004	-117.9092198	12370428.627	1365174.087
570	570-621	34.07187147	-117.9080496	12370396.896	1365528.079
570	570-701	34.07239844	-117.9071376	12370586.153	1365805.877
570	570-702	34.07244211	-117.9066367	12370600.696	1365957.656
570	570-703	34.07244483	-117.9059274	12370599.783	1366172.415
570	570-704	34.07235774	-117.904969	12370565.531	1366462.255
570	570-706	34.0723284	-117.9029016	12370549.325	1367088.033
570	570-707	34.07230187	-117.9015504	12370536.064	1367497.019
570	570-708	34.07230398	-117.9004509	12370533.900	1367829.877

570	570-709	34.07228405	-117.8992073	12370523.335	1368206.292
570	570-710	34.07229474	-117.8985731	12370525.538	1368398.344
570	570-711	34.07226921	-117.8972986	12370512.861	1368784.088
570	570-712	34.07227232	-117.89677	12370512.589	1368944.132
570	570-713	34.07226641	-117.8961935	12370508.909	1369118.633
570	570-801	34.07190213	-117.9071949	12370405.752	1365786.942
570	570-802	34.07181738	-117.9063837	12370372.743	1366032.228
570	570-803	34.0718702	-117.9053186	12370389.104	1366354.868
570	570-804	34.07186168	-117.9042389	12370383.111	1366681.690
570	570-805	34.07187727	-117.9031968	12370385.994	1366997.224
570	570-807	34.07186469	-117.9010155	12370375.593	1367657.543
570	570-808	34.07185772	-117.8999701	12370370.271	1367973.993
570	570-809	34.07184342	-117.8993754	12370363.485	1368154.007
570	570-810	34.07178963	-117.8983286	12370341.131	1368470.724
570	570-811	34.07182617	-117.8974923	12370352.200	1368724.019
570	570-812	34.07182297	-117.896643	12370348.780	1368981.124
570	570-813	34.07180953	-117.8958064	12370341.673	1369234.363

APPENDIX C

STATISTICAL ANALYSES

TABLE C-1
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 100s
COMBINED LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-101	0	570-101-0	2900	1.0000	1.570796312
570-101	0.3	570-101-0.3	45	0.0155	0.015517864
570-101	0.6	570-101-0.6	1700	0.5862	0.626368955
570-101	0.9	570-101-0.9	140	0.0483	0.048294633
570-101	1.5	570-101-1.5	28	0.0097	0.009655322
570-102	0	570-102-0	510	0.1759	0.176781417
570-102	0.3	570-102-0.3	22	0.0076	0.007586280
570-102	0.6	570-102-0.6	1400	0.4828	0.503801984
570-102	0.9	570-102-0.9	270	0.0931	0.093238483
570-102	1.5	570-102-1.5	220	0.0759	0.075935023
570-103	0	570-103-0	250	0.0862	0.086314032
570-103	0.3	570-103-0.3	6.1	0.0021	0.002103450
570-103	0.6	570-103-0.6	470	0.1621	0.162786978
570-103	0.9	570-103-0.9	9.2	0.0032	0.003172419
570-103	1.5	570-103-1.5	1100	0.3793	0.389050827
570-104	0	570-104-0	4	0.0014	0.001379311
570-104	0.3	570-104-0.3	200	0.0690	0.069020304
570-104	0.6	570-104-0.6	160	0.0552	0.055200443
570-104	0.9	570-104-0.9	2	0.0007	0.000689655
570-104	1.5	570-104-1.5	210	0.0724	0.072477230
570-105	0	570-105-0	66	0.0228	0.022760586
570-105	0.3	570-105-0.3	6.6	0.0023	0.002275864
570-105	0.6	570-105-0.6	110	0.0379	0.037940136
570-106	0	570-106-0	87	0.0300	0.030004502
570-106	0.3	570-106-0.3	6.3	0.0022	0.002172416
570-106	0.6	570-106-0.6	3	0.0010	0.001034483
570-106	0.9	570-106-0.9	2	0.0007	0.000689655
570-106	1.5	570-106-1.5	4	0.0014	0.001379311
570-107	0	570-107-0	6.2	0.0021	0.002137933
570-107	0.3	570-107-0.3	6.4	0.0022	0.002206898

TABLE C-1
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 100s
COMBINED LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-107	0.6	570-107-0.6	410	0.1414	0.141854582
570-107	0.9	570-107-0.9	4	0.0014	0.001379311
570-107	1.5	570-107-1.5	3	0.0010	0.001034483
570-108	0	570-108-0	120	0.0414	0.041391128
570-108	0.3	570-108-0.3	9.7	0.0033	0.003344834
570-108	0.6	570-108-0.6	8.7	0.0030	0.003000005
570-108	0.9	570-108-0.9	8.9	0.0031	0.003068970
570-108	1.5	570-108-1.5	250	0.0862	0.086314032
570-109	0	570-109-0	23	0.0079	0.007931118
570-109	0.3	570-109-0.3	17	0.0059	0.005862103
570-109	0.6	570-109-0.6	350	0.1207	0.120984587
570-109	0.9	570-109-0.9	11	0.0038	0.003793113
570-109	1.5	570-109-1.5	10	0.0034	0.003448283
570-110	0	570-110-0	160	0.0552	0.055200443
570-110	0.3	570-110-0.3	93	0.0321	0.032074465
570-110	0.6	570-110-0.6	310	0.1069	0.107101188
570-110	0.9	570-110-0.9	7.9	0.0027	0.002724141
570-111	0	570-111-0	66	0.0228	0.022760586
570-111	0.3	570-111-0.3	180	0.0621	0.062108889
570-111	0.6	570-111-0.6	8	0.0028	0.002758624
570-112	0	570-112-0	63	0.0217	0.021725847
570-112	0.3	570-112-0.3	92	0.0317	0.031729462
570-112	0.6	570-112-0.6	40	0.0138	0.013793541
570-112	0.9	570-112-0.9	22	0.0076	0.007586280
570-112	1.5	570-112-1.5	570	0.1966	0.197839795
570-113	0	570-113-0	12	0.0041	0.004137943
570-113	0.3	570-113-0.3	1000	0.3448	0.352055099
570-113	0.6	570-113-0.6	36	0.0124	0.012414112
570-114	0	570-114-0	410	0.1414	0.141854582
570-114	0.3	570-114-0.3	19	0.0066	0.006551771

TABLE C-1
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 100s
COMBINED LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-114	0.6	570-114-0.6	1100	0.3793	0.389050827
570-114	0.9	570-114-0.9	9.5	0.0033	0.003275868
570-114	1.5	570-114-1.5	10	0.0034	0.003448283
570-115	0	570-115-0	1200	0.4138	0.426616683
570-115	0.3	570-115-0.3	20	0.0069	0.006896606
570-115	0.6	570-115-0.6	890	0.3069	0.311930505
570-116	0	570-116-0	840	0.2897	0.293866546
570-117	0	570-117-0	810	0.2793	0.283075794
570-117	0.3	570-117-0.3	400	0.1379	0.138372177
570-117	0.6	570-117-0.6	330	0.1138	0.114040128
570-118	0	570-118-0	99	0.0341	0.034144565
570-118	0.3	570-118-0.3	370	0.1276	0.127934914
570-118	0.6	570-118-0.6	240	0.0828	0.082853382
570-118	0.9	570-118-0.9	43	0.0148	0.014828130
570-119	0	570-119-0	240	0.0828	0.082853382
570-119	0.3	570-119-0.3	1300	0.4483	0.464835612
570-119	0.6	570-119-0.6	56	0.0193	0.019311545
570-120	0	570-120-0	44	0.0152	0.015172996
570-120	0.3	570-120-0.3	14	0.0048	0.004827605
570-120	0.6	570-120-0.6	12	0.0041	0.004137943
570-120	0.9	570-120-0.9	120	0.0414	0.041391128
570-120	1.5	570-120-1.5	69	0.0238	0.023795349
570-121	0	570-121-0	12	0.0041	0.004137943
570-121	0.3	570-121-0.3	120	0.0414	0.041391128
570-121	0.6	570-121-0.6	5.7	0.0020	0.001965519
570-121	0.9	570-121-0.9	5	0.0017	0.001724139
570-121	1.5	570-121-1.5	3	0.0010	0.001034483
570-122	0	570-122-0	7.7	0.0027	0.002655176
570-122	0.3	570-122-0.3	5.3	0.0018	0.001827587
570-122	0.6	570-122-0.6	34	0.0117	0.011724407

TABLE C-1
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 100s
COMBINED LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-122	0.9	570-122-0.9	220	0.0759	0.075935023
570-122	1.5	570-122-1.5	5.3	0.0018	0.001827587
570-123	0	570-123-0	140	0.0483	0.048294633
570-123	0.3	570-123-0.3	20	0.0069	0.006896606
570-123	0.6	570-123-0.6	57	0.0197	0.019656438
570-123	0.9	570-123-0.9	47	0.0162	0.016207606

Total Lead	Max TTLC:	2900.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	96		96			
Sample Mean:	241		0.091			
Delta = RT - mean	109					
Appropriate Number of Samples:	28					
Standard Deviation of Sample:	446		0.198			
Standard Deviation of Mean:	46		0.020			
Sample Variance:	198872		0.039			
t-value for 90%:	1.292	Need to Transform Data	1.292			
Upper Confidence Limit for 90%:			0.117			
Reverse Transformation for 90%			337.45	mg/kg	22.50	mg/l
t-value for 95%:			1.66			
Upper Confidence Limit for 95%:			0.12			
Reverse Transformation for 95%			359.01	mg/kg	24.00	mg/l

TABLE C-2
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 100s
SURFACE LAYER

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-101	0	570-101-0	2900	1.0000	1.570796312
570-102	0	570-102-0	510	0.1759	0.176781417
570-103	0	570-103-0	250	0.0862	0.086314032
570-104	0	570-104-0	4	0.0014	0.001379311
570-105	0	570-105-0	66	0.0228	0.022760586
570-106	0	570-106-0	87	0.0300	0.030004502
570-107	0	570-107-0	6.2	0.0021	0.002137933
570-108	0	570-108-0	120	0.0414	0.041391128
570-109	0	570-109-0	23	0.0079	0.007931118
570-110	0	570-110-0	160	0.0552	0.055200443
570-111	0	570-111-0	66	0.0228	0.022760586
570-112	0	570-112-0	63	0.0217	0.021725847
570-113	0	570-113-0	12	0.0041	0.004137943
570-114	0	570-114-0	410	0.1414	0.141854582
570-115	0	570-115-0	1200	0.4138	0.426616683
570-116	0	570-116-0	840	0.2897	0.293866546
570-117	0	570-117-0	810	0.2793	0.283075794
570-118	0	570-118-0	99	0.0341	0.034144565
570-119	0	570-119-0	240	0.0828	0.082853382
570-120	0	570-120-0	44	0.0152	0.015172996
570-121	0	570-121-0	12	0.0041	0.004137943
570-122	0	570-122-0	7.7	0.0027	0.002655176
570-123	0	570-123-0	140	0.0483	0.048294633

Total Lead	Max TTLC:	2900.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	23		23			
Sample Mean:	351		0.147			
Delta = RT - mean	-1					
Appropriate Number of Samples:	955852					
Standard Deviation of Sample:	640		0.330			
Standard Deviation of Mean:	134		0.069			
Sample Variance:	410049		0.109			
t-value for 90%:	1.321	Need to Transform Data	1.321			
Upper Confidence Limit for 90%:			0.238			
Reverse Transformation for 90%			682.87	mg/kg	46.44	mg/l
t-value for 95%:			1.72			
Upper Confidence Limit for 95%:			0.26			
Reverse Transformation for 95%			759.42	mg/kg	51.74	mg/l

TABLE C-3
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 100s
0.3, 0.6, 0.9, AND 1.5-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-101	0.3	570-101-0.3	45	0.0265	0.026473680
570-101	0.6	570-101-0.6	1700	1.0000	1.570796312
570-101	0.9	570-101-0.9	140	0.0824	0.082446313
570-101	1.5	570-101-1.5	28	0.0165	0.016471333
570-102	0.3	570-102-0.3	22	0.0129	0.012941538
570-102	0.6	570-102-0.6	1400	0.8235	0.967604921
570-102	0.9	570-102-0.9	270	0.1588	0.159498943
570-102	1.5	570-102-1.5	220	0.1294	0.129775733
570-103	0.3	570-103-0.3	6.1	0.0036	0.003588243
570-103	0.6	570-103-0.6	470	0.2765	0.280119599
570-103	0.9	570-103-0.9	9.2	0.0054	0.005411791
570-103	1.5	570-103-1.5	1100	0.6471	0.703720508
570-104	0.3	570-104-0.3	200	0.1176	0.117920152
570-104	0.6	570-104-0.6	160	0.0941	0.094257155
570-104	0.9	570-104-0.9	2	0.0012	0.001176471
570-104	1.5	570-104-1.5	210	0.1235	0.123845755
570-105	0.3	570-105-0.3	6.6	0.0039	0.003882363
570-105	0.6	570-105-0.6	110	0.0647	0.064751120
570-106	0.3	570-106-0.3	6.3	0.0037	0.003705891
570-106	0.6	570-106-0.6	3	0.0018	0.001764707
570-106	0.9	570-106-0.9	2	0.0012	0.001176471
570-106	1.5	570-106-1.5	4	0.0024	0.002352943
570-107	0.3	570-107-0.3	6.4	0.0038	0.003764715
570-107	0.6	570-107-0.6	410	0.2412	0.243577924
570-107	0.9	570-107-0.9	4	0.0024	0.002352943
570-107	1.5	570-107-1.5	3	0.0018	0.001764707
570-108	0.3	570-108-0.3	9.7	0.0057	0.005705913
570-108	0.6	570-108-0.6	8.7	0.0051	0.005117669
570-108	0.9	570-108-0.9	8.9	0.0052	0.005235318
570-108	1.5	570-108-1.5	250	0.1471	0.147594106

TABLE C-3
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 100s
0.3, 0.6, 0.9, AND 1.5-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-109	0.3	570-109-0.3	17	0.0100	0.010000167
570-109	0.6	570-109-0.6	350	0.2059	0.207365292
570-109	0.9	570-109-0.9	11	0.0065	0.006470633
570-109	1.5	570-109-1.5	10	0.0059	0.005882387
570-110	0.3	570-110-0.3	93	0.0547	0.054733206
570-110	0.6	570-110-0.6	310	0.1824	0.183378988
570-110	0.9	570-110-0.9	7.9	0.0046	0.004647076
570-111	0.3	570-111-0.3	180	0.1059	0.106081200
570-111	0.6	570-111-0.6	8	0.0047	0.004705900
570-112	0.3	570-112-0.3	92	0.0541	0.054144098
570-112	0.6	570-112-0.6	40	0.0235	0.023531583
570-112	0.9	570-112-0.9	22	0.0129	0.012941538
570-112	1.5	570-112-1.5	570	0.3353	0.341917402
570-113	0.3	570-113-0.3	1000	0.5882	0.628874925
570-113	0.6	570-113-0.6	36	0.0212	0.021178054
570-114	0.3	570-114-0.3	19	0.0112	0.011176703
570-114	0.6	570-114-0.6	1100	0.6471	0.703720508
570-114	0.9	570-114-0.9	9.5	0.0056	0.005588264
570-114	1.5	570-114-1.5	10	0.0059	0.005882387
570-115	0.3	570-115-0.3	20	0.0118	0.011764977
570-115	0.6	570-115-0.6	890	0.5235	0.550988169
570-117	0.3	570-117-0.3	400	0.2353	0.237521171
570-117	0.6	570-117-0.6	330	0.1941	0.195357908
570-118	0.3	570-118-0.3	370	0.2176	0.219403087
570-118	0.6	570-118-0.6	240	0.1412	0.141649687
570-118	0.9	570-118-0.9	43	0.0253	0.025296816
570-119	0.3	570-119-0.3	1300	0.7647	0.870584771
570-119	0.6	570-119-0.6	56	0.0329	0.032947137
570-120	0.3	570-120-0.3	14	0.0082	0.008235387
570-120	0.6	570-120-0.6	12	0.0071	0.007058882

TABLE C-3
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 100s
0.3, 0.6, 0.9, AND 1.5-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-120	0.9	570-120-0.9	120	0.0706	0.070646987
570-120	1.5	570-120-1.5	69	0.0406	0.040599388
570-121	0.3	570-121-0.3	120	0.0706	0.070646987
570-121	0.6	570-121-0.6	5.7	0.0034	0.003352947
570-121	0.9	570-121-0.9	5	0.0029	0.002941181
570-121	1.5	570-121-1.5	3	0.0018	0.001764707
570-122	0.3	570-122-0.3	5.3	0.0031	0.003117652
570-122	0.6	570-122-0.6	34	0.0200	0.020001334
570-122	0.9	570-122-0.9	220	0.1294	0.129775733
570-122	1.5	570-122-1.5	5.3	0.0031	0.003117652
570-123	0.3	570-123-0.3	20	0.0118	0.011764977
570-123	0.6	570-123-0.6	57	0.0335	0.033535697
570-123	0.9	570-123-0.9	47	0.0276	0.027650582

Total Lead	Max TTLC:	1700.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	73		73			
Sample Mean:	207		0.136			
Delta = RT - mean	143					
Appropriate Number of Samples:	11					
Standard Deviation of Sample:	363		0.268			
Standard Deviation of Mean:	43		0.031			
Sample Variance:	132056		0.072			
t-value for 90%:	1.295	Need to Transform Data	1.295			
Upper Confidence Limit for 90%:			0.176			
Reverse Transformation for 90%			298.05	mg/kg	19.77	mg/l
t-value for 95%:			1.67			
Upper Confidence Limit for 95%:			0.19			
Reverse Transformation for 95%			317.61	mg/kg	21.13	mg/l

TABLE C-4
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 100s
SURFACE AND 0.3-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-101	0	570-101-0	2900	1.0000	1.570796312
570-101	0.3	570-101-0.3	45	0.0155	0.015517864
570-102	0	570-102-0	510	0.1759	0.176781417
570-102	0.3	570-102-0.3	22	0.0076	0.007586280
570-103	0	570-103-0	250	0.0862	0.086314032
570-103	0.3	570-103-0.3	6.1	0.0021	0.002103450
570-104	0	570-104-0	4	0.0014	0.001379311
570-104	0.3	570-104-0.3	200	0.0690	0.069020304
570-105	0	570-105-0	66	0.0228	0.022760586
570-105	0.3	570-105-0.3	6.6	0.0023	0.002275864
570-106	0	570-106-0	87	0.0300	0.030004502
570-106	0.3	570-106-0.3	6.3	0.0022	0.002172416
570-107	0	570-107-0	6.2	0.0021	0.002137933
570-107	0.3	570-107-0.3	6.4	0.0022	0.002206898
570-108	0	570-108-0	120	0.0414	0.041391128
570-108	0.3	570-108-0.3	9.7	0.0033	0.003344834
570-109	0	570-109-0	23	0.0079	0.007931118
570-109	0.3	570-109-0.3	17	0.0059	0.005862103
570-110	0	570-110-0	160	0.0552	0.055200443
570-110	0.3	570-110-0.3	93	0.0321	0.032074465
570-111	0	570-111-0	66	0.0228	0.022760586
570-111	0.3	570-111-0.3	180	0.0621	0.062108889
570-112	0	570-112-0	63	0.0217	0.021725847
570-112	0.3	570-112-0.3	92	0.0317	0.031729462
570-113	0	570-113-0	12	0.0041	0.004137943
570-113	0.3	570-113-0.3	1000	0.3448	0.352055099
570-114	0	570-114-0	410	0.1414	0.141854582
570-114	0.3	570-114-0.3	19	0.0066	0.006551771
570-115	0	570-115-0	1200	0.4138	0.426616683
570-115	0.3	570-115-0.3	20	0.0069	0.006896606

TABLE C-4
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 100s
SURFACE AND 0.3-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-116	0	570-116-0	840	0.2897	0.293866546
570-117	0	570-117-0	810	0.2793	0.283075794
570-117	0.3	570-117-0.3	400	0.1379	0.138372177
570-118	0	570-118-0	99	0.0341	0.034144565
570-118	0.3	570-118-0.3	370	0.1276	0.127934914
570-119	0	570-119-0	240	0.0828	0.082853382
570-119	0.3	570-119-0.3	1300	0.4483	0.464835612
570-120	0	570-120-0	44	0.0152	0.015172996
570-120	0.3	570-120-0.3	14	0.0048	0.004827605
570-121	0	570-121-0	12	0.0041	0.004137943
570-121	0.3	570-121-0.3	120	0.0414	0.041391128
570-122	0	570-122-0	7.7	0.0027	0.002655176
570-122	0.3	570-122-0.3	5.3	0.0018	0.001827587
570-123	0	570-123-0	140	0.0483	0.048294633
570-123	0.3	570-123-0.3	20	0.0069	0.006896606

Total Lead	Max TTLC:	2900.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	45		45			
Sample Mean:	267		0.106			
Delta = RT - mean	83					
Appropriate Number of Samples:	66					
Standard Deviation of Sample:	516		0.251			
Standard Deviation of Mean:	77		0.037			
Sample Variance:	266724		0.063			
t-value for 90%:	1.302	Need to Transform Data	1.302			
Upper Confidence Limit for 90%:			0.155			
Reverse Transformation for 90%			446.56	mg/kg	30.06	mg/l
t-value for 95%:			1.68			
Upper Confidence Limit for 95%:			0.17			
Reverse Transformation for 95%			487.27	mg/kg	32.88	mg/l

TABLE C-5
LEAD ANALYSES - SEGMENT 2 - WETSBOUND 100s
0.6, 0.9 AND 1.5-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-101	0.6	570-101-0.6	1700	1.0000	1.570796312
570-101	0.9	570-101-0.9	140	0.0824	0.082446313
570-101	1.5	570-101-1.5	28	0.0165	0.016471333
570-102	0.6	570-102-0.6	1400	0.8235	0.967604921
570-102	0.9	570-102-0.9	270	0.1588	0.159498943
570-102	1.5	570-102-1.5	220	0.1294	0.129775733
570-103	0.6	570-103-0.6	470	0.2765	0.280119599
570-103	0.9	570-103-0.9	9.2	0.0054	0.005411791
570-103	1.5	570-103-1.5	1100	0.6471	0.703720508
570-104	0.6	570-104-0.6	160	0.0941	0.094257155
570-104	0.9	570-104-0.9	2	0.0012	0.001176471
570-104	1.5	570-104-1.5	210	0.1235	0.123845755
570-105	0.6	570-105-0.6	110	0.0647	0.064751120
570-106	0.6	570-106-0.6	3	0.0018	0.001764707
570-106	0.9	570-106-0.9	2	0.0012	0.001176471
570-106	1.5	570-106-1.5	4	0.0024	0.002352943
570-107	0.6	570-107-0.6	410	0.2412	0.243577924
570-107	0.9	570-107-0.9	4	0.0024	0.002352943
570-107	1.5	570-107-1.5	3	0.0018	0.001764707
570-108	0.6	570-108-0.6	8.7	0.0051	0.005117669
570-108	0.9	570-108-0.9	8.9	0.0052	0.005235318
570-108	1.5	570-108-1.5	250	0.1471	0.147594106
570-109	0.6	570-109-0.6	350	0.2059	0.207365292
570-109	0.9	570-109-0.9	11	0.0065	0.006470633
570-109	1.5	570-109-1.5	10	0.0059	0.005882387
570-110	0.6	570-110-0.6	310	0.1824	0.183378988
570-110	0.9	570-110-0.9	7.9	0.0046	0.004647076
570-111	0.6	570-111-0.6	8	0.0047	0.004705900
570-112	0.6	570-112-0.6	40	0.0235	0.023531583
570-112	0.9	570-112-0.9	22	0.0129	0.012941538
570-112	1.5	570-112-1.5	570	0.3353	0.341917402
570-113	0.6	570-113-0.6	36	0.0212	0.021178054
570-114	0.6	570-114-0.6	1100	0.6471	0.703720508

TABLE C-5
LEAD ANALYSES - SEGMENT 2 - WETSBOUND 100s
0.6, 0.9 AND 1.5-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-114	0.9	570-114-0.9	9.5	0.0056	0.005588264
570-114	1.5	570-114-1.5	10	0.0059	0.005882387
570-115	0.6	570-115-0.6	890	0.5235	0.550988169
570-117	0.6	570-117-0.6	330	0.1941	0.195357908
570-118	0.6	570-118-0.6	240	0.1412	0.141649687
570-118	0.9	570-118-0.9	43	0.0253	0.025296816
570-119	0.6	570-119-0.6	56	0.0329	0.032947137
570-120	0.6	570-120-0.6	12	0.0071	0.007058882
570-120	0.9	570-120-0.9	120	0.0706	0.070646987
570-120	1.5	570-120-1.5	69	0.0406	0.040599388
570-121	0.6	570-121-0.6	5.7	0.0034	0.003352947
570-121	0.9	570-121-0.9	5	0.0029	0.002941181
570-121	1.5	570-121-1.5	3	0.0018	0.001764707
570-122	0.6	570-122-0.6	34	0.0200	0.020001334
570-122	0.9	570-122-0.9	220	0.1294	0.129775733
570-122	1.5	570-122-1.5	5.3	0.0031	0.003117652
570-123	0.6	570-123-0.6	57	0.0335	0.033535697
570-123	0.9	570-123-0.9	47	0.0276	0.027650582

Total Lead	Max TTLC:	1700.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	51		51			
Sample Mean:	218		0.146			
Delta = RT - mean	132					
Appropriate Number of Samples:	14					
Standard Deviation of Sample:	377		0.288			
Standard Deviation of Mean:	53		0.040			
Sample Variance:	141998		0.083			
t-value for 90%:	1.300	Need to Transform Data	1.300			
Upper Confidence Limit for 90%:			0.198			
Reverse Transformation for 90%			334.26	mg/kg	22.28	mg/l
t-value for 95%:			1.68			
Upper Confidence Limit for 95%:			0.21			
Reverse Transformation for 95%			359.59	mg/kg	24.04	mg/l

TABLE C-6
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 100s
SURFACE, 0.3 AND 0.6-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-101	0	570-101-0	2900	1.0000	1.570796312
570-101	0.3	570-101-0.3	45	0.0155	0.015517864
570-101	0.6	570-101-0.6	1700	0.5862	0.626368955
570-102	0	570-102-0	510	0.1759	0.176781417
570-102	0.3	570-102-0.3	22	0.0076	0.007586280
570-102	0.6	570-102-0.6	1400	0.4828	0.503801984
570-103	0	570-103-0	250	0.0862	0.086314032
570-103	0.3	570-103-0.3	6.1	0.0021	0.002103450
570-103	0.6	570-103-0.6	470	0.1621	0.162786978
570-104	0	570-104-0	4	0.0014	0.001379311
570-104	0.3	570-104-0.3	200	0.0690	0.069020304
570-104	0.6	570-104-0.6	160	0.0552	0.055200443
570-105	0	570-105-0	66	0.0228	0.022760586
570-105	0.3	570-105-0.3	6.6	0.0023	0.002275864
570-105	0.6	570-105-0.6	110	0.0379	0.037940136
570-106	0	570-106-0	87	0.0300	0.030004502
570-106	0.3	570-106-0.3	6.3	0.0022	0.002172416
570-106	0.6	570-106-0.6	3	0.0010	0.001034483
570-107	0	570-107-0	6.2	0.0021	0.002137933
570-107	0.3	570-107-0.3	6.4	0.0022	0.002206898
570-107	0.6	570-107-0.6	410	0.1414	0.141854582
570-108	0	570-108-0	120	0.0414	0.041391128
570-108	0.3	570-108-0.3	9.7	0.0033	0.003344834
570-108	0.6	570-108-0.6	8.7	0.0030	0.003000005
570-109	0	570-109-0	23	0.0079	0.007931118
570-109	0.3	570-109-0.3	17	0.0059	0.005862103
570-109	0.6	570-109-0.6	350	0.1207	0.120984587
570-110	0	570-110-0	160	0.0552	0.055200443
570-110	0.3	570-110-0.3	93	0.0321	0.032074465
570-110	0.6	570-110-0.6	310	0.1069	0.107101188

TABLE C-6
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 100s
SURFACE, 0.3 AND 0.6-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-111	0	570-111-0	66	0.0228	0.022760586
570-111	0.3	570-111-0.3	180	0.0621	0.062108889
570-111	0.6	570-111-0.6	8	0.0028	0.002758624
570-112	0	570-112-0	63	0.0217	0.021725847
570-112	0.3	570-112-0.3	92	0.0317	0.031729462
570-112	0.6	570-112-0.6	40	0.0138	0.013793541
570-113	0	570-113-0	12	0.0041	0.004137943
570-113	0.3	570-113-0.3	1000	0.3448	0.352055099
570-113	0.6	570-113-0.6	36	0.0124	0.012414112
570-114	0	570-114-0	410	0.1414	0.141854582
570-114	0.3	570-114-0.3	19	0.0066	0.006551771
570-114	0.6	570-114-0.6	1100	0.3793	0.389050827
570-115	0	570-115-0	1200	0.4138	0.426616683
570-115	0.3	570-115-0.3	20	0.0069	0.006896606
570-115	0.6	570-115-0.6	890	0.3069	0.311930505
570-116	0	570-116-0	840	0.2897	0.293866546
570-117	0	570-117-0	810	0.2793	0.283075794
570-117	0.3	570-117-0.3	400	0.1379	0.138372177
570-117	0.6	570-117-0.6	330	0.1138	0.114040128
570-118	0	570-118-0	99	0.0341	0.034144565
570-118	0.3	570-118-0.3	370	0.1276	0.127934914
570-118	0.6	570-118-0.6	240	0.0828	0.082853382
570-119	0	570-119-0	240	0.0828	0.082853382
570-119	0.3	570-119-0.3	1300	0.4483	0.464835612
570-119	0.6	570-119-0.6	56	0.0193	0.019311545
570-120	0	570-120-0	44	0.0152	0.015172996
570-120	0.3	570-120-0.3	14	0.0048	0.004827605
570-120	0.6	570-120-0.6	12	0.0041	0.004137943
570-121	0	570-121-0	12	0.0041	0.004137943
570-121	0.3	570-121-0.3	120	0.0414	0.041391128

TABLE C-6
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 100s
SURFACE, 0.3 AND 0.6-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-121	0.6	570-121-0.6	5.7	0.0020	0.001965519
570-122	0	570-122-0	7.7	0.0027	0.002655176
570-122	0.3	570-122-0.3	5.3	0.0018	0.001827587
570-122	0.6	570-122-0.6	34	0.0117	0.011724407
570-123	0	570-123-0	140	0.0483	0.048294633
570-123	0.3	570-123-0.3	20	0.0069	0.006896606
570-123	0.6	570-123-0.6	57	0.0197	0.019656438

Total Lead	Max TTLC:	2900.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	67		67			
Sample Mean:	295		0.112			
Delta = RT - mean	55					
Appropriate Number of Samples:	140					
Standard Deviation of Sample:	505		0.228			
Standard Deviation of Mean:	62		0.028			
Sample Variance:	254530		0.052			
t-value for 90%:	1.295	Need to Transform Data	1.295			
Upper Confidence Limit for 90%:			0.148			
Reverse Transformation for 90%			428.01	mg/kg	28.78	mg/l
t-value for 95%:			1.67			
Upper Confidence Limit for 95%:			0.16			
Reverse Transformation for 95%			457.96	mg/kg	30.85	mg/l

TABLE C-7
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 100s
0.9 AND 1.5-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-101	0.9	570-101-0.9	140	0.1273	0.127618858
570-101	1.5	570-101-1.5	28	0.0255	0.025457295
570-102	0.9	570-102-0.9	270	0.2455	0.247988554
570-102	1.5	570-102-1.5	220	0.2000	0.201357921
570-103	0.9	570-103-0.9	9.2	0.0084	0.008363734
570-103	1.5	570-103-1.5	1100	1.0000	1.570796327
570-104	0.9	570-104-0.9	2	0.0018	0.001818183
570-104	1.5	570-104-1.5	210	0.1909	0.192088188
570-106	0.9	570-106-0.9	2	0.0018	0.001818183
570-106	1.5	570-106-1.5	4	0.0036	0.003636372
570-107	0.9	570-107-0.9	4	0.0036	0.003636372
570-107	1.5	570-107-1.5	3	0.0027	0.002727276
570-108	0.9	570-108-0.9	8.9	0.0081	0.008090997
570-108	1.5	570-108-1.5	250	0.2273	0.229276203
570-109	0.9	570-109-0.9	11	0.0100	0.010000167
570-109	1.5	570-109-1.5	10	0.0091	0.009091034
570-110	0.9	570-110-0.9	7.9	0.0072	0.007181880
570-112	0.9	570-112-0.9	22	0.0200	0.020001334
570-112	1.5	570-112-1.5	570	0.5182	0.544723722
570-114	0.9	570-114-0.9	9.5	0.0086	0.008636471
570-114	1.5	570-114-1.5	10	0.0091	0.009091034
570-118	0.9	570-118-0.9	43	0.0391	0.039100872
570-120	0.9	570-120-0.9	120	0.1091	0.109308455
570-120	1.5	570-120-1.5	69	0.0627	0.062768481
570-121	0.9	570-121-0.9	5	0.0045	0.004545470
570-121	1.5	570-121-1.5	3	0.0027	0.002727276

TABLE C-7
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 100s
0.9 AND 1.5-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-122	0.9	570-122-0.9	220	0.2000	0.201357921
570-122	1.5	570-122-1.5	5.3	0.0048	0.004818200
570-123	0.9	570-123-0.9	47	0.0427	0.042740284

Total Lead	Max TTLC:	1100.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	29		29			
Sample Mean:	117		0.128			
Delta = RT - mean	233					
Appropriate Number of Samples:	2					
Standard Deviation of Sample:	228		0.302			
Standard Deviation of Mean:	42		0.056			
Sample Variance:	52019		0.091			
t-value for 90%:	1.313	Need to Transform Data	1.313			
Upper Confidence Limit for 90%:			0.201			
Reverse Transformation for 90%			219.99	mg/kg	14.36	mg/l
t-value for 95%:			1.70			
Upper Confidence Limit for 95%:			0.22			
Reverse Transformation for 95%			243.43	mg/kg	15.99	mg/l

TABLE C-8
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 100s
SURFACE, 0.3, 0.6, AND 0.9-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-101	0	570-101-0	2900	1.0000	1.570796312
570-101	0.3	570-101-0.3	45	0.0155	0.015517864
570-101	0.6	570-101-0.6	1700	0.5862	0.626368955
570-101	0.9	570-101-0.9	140	0.0483	0.048294633
570-102	0	570-102-0	510	0.1759	0.176781417
570-102	0.3	570-102-0.3	22	0.0076	0.007586280
570-102	0.6	570-102-0.6	1400	0.4828	0.503801984
570-102	0.9	570-102-0.9	270	0.0931	0.093238483
570-103	0	570-103-0	250	0.0862	0.086314032
570-103	0.3	570-103-0.3	6.1	0.0021	0.002103450
570-103	0.6	570-103-0.6	470	0.1621	0.162786978
570-103	0.9	570-103-0.9	9.2	0.0032	0.003172419
570-104	0	570-104-0	4	0.0014	0.001379311
570-104	0.3	570-104-0.3	200	0.0690	0.069020304
570-104	0.6	570-104-0.6	160	0.0552	0.055200443
570-104	0.9	570-104-0.9	2	0.0007	0.000689655
570-105	0	570-105-0	66	0.0228	0.022760586
570-105	0.3	570-105-0.3	6.6	0.0023	0.002275864
570-105	0.6	570-105-0.6	110	0.0379	0.037940136
570-106	0	570-106-0	87	0.0300	0.030004502
570-106	0.3	570-106-0.3	6.3	0.0022	0.002172416
570-106	0.6	570-106-0.6	3	0.0010	0.001034483
570-106	0.9	570-106-0.9	2	0.0007	0.000689655
570-107	0	570-107-0	6.2	0.0021	0.002137933
570-107	0.3	570-107-0.3	6.4	0.0022	0.002206898
570-107	0.6	570-107-0.6	410	0.1414	0.141854582

TABLE C-8
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 100s
SURFACE, 0.3, 0.6, AND 0.9-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-107	0.9	570-107-0.9	4	0.0014	0.001379311
570-108	0	570-108-0	120	0.0414	0.041391128
570-108	0.3	570-108-0.3	9.7	0.0033	0.003344834
570-108	0.6	570-108-0.6	8.7	0.0030	0.003000005
570-108	0.9	570-108-0.9	8.9	0.0031	0.003068970
570-109	0	570-109-0	23	0.0079	0.007931118
570-109	0.3	570-109-0.3	17	0.0059	0.005862103
570-109	0.6	570-109-0.6	350	0.1207	0.120984587
570-109	0.9	570-109-0.9	11	0.0038	0.003793113
570-110	0	570-110-0	160	0.0552	0.055200443
570-110	0.3	570-110-0.3	93	0.0321	0.032074465
570-110	0.6	570-110-0.6	310	0.1069	0.107101188
570-110	0.9	570-110-0.9	7.9	0.0027	0.002724141
570-111	0	570-111-0	66	0.0228	0.022760586
570-111	0.3	570-111-0.3	180	0.0621	0.062108889
570-111	0.6	570-111-0.6	8	0.0028	0.002758624
570-112	0	570-112-0	63	0.0217	0.021725847
570-112	0.3	570-112-0.3	92	0.0317	0.031729462
570-112	0.6	570-112-0.6	40	0.0138	0.013793541
570-112	0.9	570-112-0.9	22	0.0076	0.007586280
570-113	0	570-113-0	12	0.0041	0.004137943
570-113	0.3	570-113-0.3	1000	0.3448	0.352055099
570-113	0.6	570-113-0.6	36	0.0124	0.012414112
570-114	0	570-114-0	410	0.1414	0.141854582
570-114	0.3	570-114-0.3	19	0.0066	0.006551771
570-114	0.6	570-114-0.6	1100	0.3793	0.389050827

TABLE C-8
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 100s
SURFACE, 0.3, 0.6, AND 0.9-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-114	0.9	570-114-0.9	9.5	0.0033	0.003275868
570-115	0	570-115-0	1200	0.4138	0.426616683
570-115	0.3	570-115-0.3	20	0.0069	0.006896606
570-115	0.6	570-115-0.6	890	0.3069	0.311930505
570-116	0	570-116-0	840	0.2897	0.293866546
570-117	0	570-117-0	810	0.2793	0.283075794
570-117	0.3	570-117-0.3	400	0.1379	0.138372177
570-117	0.6	570-117-0.6	330	0.1138	0.114040128
570-118	0	570-118-0	99	0.0341	0.034144565
570-118	0.3	570-118-0.3	370	0.1276	0.127934914
570-118	0.6	570-118-0.6	240	0.0828	0.082853382
570-118	0.9	570-118-0.9	43	0.0148	0.014828130
570-119	0	570-119-0	240	0.0828	0.082853382
570-119	0.3	570-119-0.3	1300	0.4483	0.464835612
570-119	0.6	570-119-0.6	56	0.0193	0.019311545
570-120	0	570-120-0	44	0.0152	0.015172996
570-120	0.3	570-120-0.3	14	0.0048	0.004827605
570-120	0.6	570-120-0.6	12	0.0041	0.004137943
570-120	0.9	570-120-0.9	120	0.0414	0.041391128
570-121	0	570-121-0	12	0.0041	0.004137943
570-121	0.3	570-121-0.3	120	0.0414	0.041391128
570-121	0.6	570-121-0.6	5.7	0.0020	0.001965519
570-121	0.9	570-121-0.9	5	0.0017	0.001724139
570-122	0	570-122-0	7.7	0.0027	0.002655176
570-122	0.3	570-122-0.3	5.3	0.0018	0.001827587
570-122	0.6	570-122-0.6	34	0.0117	0.011724407

TABLE C-8
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 100s
SURFACE, 0.3, 0.6, AND 0.9-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-122	0.9	570-122-0.9	220	0.0759	0.075935023
570-123	0	570-123-0	140	0.0483	0.048294633
570-123	0.3	570-123-0.3	20	0.0069	0.006896606
570-123	0.6	570-123-0.6	57	0.0197	0.019656438
570-123	0.9	570-123-0.9	47	0.0162	0.016207606

Total Lead	Max TTLC:	2900.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	83		83			
Sample Mean:	249		0.094			
Delta = RT - mean	101					
Appropriate Number of Samples:	35					
Standard Deviation of Sample:	464		0.208			
Standard Deviation of Mean:	51		0.023			
Sample Variance:	215038		0.043			
t-value for 90%:	1.293	Need to Transform Data	1.293			
Upper Confidence Limit for 90%:			0.124			
Reverse Transformation for 90%			358.20	mg/kg	23.94	mg/l
t-value for 95%:			1.67			
Upper Confidence Limit for 95%:			0.13			
Reverse Transformation for 95%			382.72	mg/kg	25.64	mg/l

TABLE C-9
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 100s
1.5-METER LAYER

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-101	1.5	570-101-1.5	28	0.0255	0.025457295
570-102	1.5	570-102-1.5	220	0.2000	0.201357921
570-103	1.5	570-103-1.5	1100	1.0000	1.570796327
570-104	1.5	570-104-1.5	210	0.1909	0.192088188
570-106	1.5	570-106-1.5	4	0.0036	0.003636372
570-107	1.5	570-107-1.5	3	0.0027	0.002727276
570-108	1.5	570-108-1.5	250	0.2273	0.229276203
570-109	1.5	570-109-1.5	10	0.0091	0.009091034
570-112	1.5	570-112-1.5	570	0.5182	0.544723722
570-114	1.5	570-114-1.5	10	0.0091	0.009091034
570-120	1.5	570-120-1.5	69	0.0627	0.062768481
570-121	1.5	570-121-1.5	3	0.0027	0.002727276
570-122	1.5	570-122-1.5	5.3	0.0048	0.004818200

Total Lead	Max TTLC:	1100.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	13		13			
Sample Mean:	191		0.220			
Delta = RT - mean	159					
Appropriate Number of Samples:	7					
Standard Deviation of Sample:	319		0.435			
Standard Deviation of Mean:	88		0.121			
Sample Variance:	101810		0.189			
t-value for 90%:	1.356	Need to Transform Data	1.356			
Upper Confidence Limit for 90%:			0.383			
Reverse Transformation for 90%			411.56	mg/kg	27.64	mg/l
t-value for 95%:			1.78			
Upper Confidence Limit for 95%:			0.43			
Reverse Transformation for 95%			463.42	mg/kg	31.23	mg/l

TABLE C-10
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 300s
COMBINED LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-301	0	570-301-0	270	0.1421	0.142587939
570-301	0.3	570-301-0.3	59	0.0311	0.031057624
570-301	0.6	570-301-0.6	30	0.0158	0.015790130
570-302	0	570-302-0	5.7	0.0030	0.003000005
570-302	0.3	570-302-0.3	48	0.0253	0.025265846
570-302	0.6	570-302-0.6	7.9	0.0042	0.004157907
570-302	0.9	570-302-0.9	34	0.0179	0.017895692
570-302	1.5	570-302-1.5	3	0.0016	0.001578948
570-303	0	570-303-0	66	0.0347	0.034743832
570-303	0.3	570-303-0.3	120	0.0632	0.063199959
570-303	0.6	570-303-0.6	100	0.0526	0.052655908
570-303	0.9	570-303-0.9	25	0.0132	0.013158274
570-303	1.5	570-303-1.5	3	0.0016	0.001578948
570-304	0	570-304-0	930	0.4895	0.511486090
570-304	0.3	570-304-0.3	160	0.0842	0.084310374
570-304	0.6	570-304-0.6	130	0.0684	0.068474550
570-304	0.9	570-304-0.9	4	0.0021	0.002105265
570-304	1.5	570-304-1.5	160	0.0842	0.084310374
570-305	0	570-305-0	590	0.3105	0.315746670
570-305	0.3	570-305-0.3	9.3	0.0049	0.004894756
570-305	0.6	570-305-0.6	4	0.0021	0.002105265
570-305	0.9	570-305-0.9	3	0.0016	0.001578948
570-305	1.5	570-305-1.5	5.5	0.0029	0.002894741
570-306	0	570-306-0	6.2	0.0033	0.003263164
570-306	0.3	570-306-0.3	19	0.0100	0.010000167
570-306	0.6	570-306-0.6	49	0.0258	0.025792333
570-306	0.9	570-306-0.9	9.3	0.0049	0.004894756
570-306	1.5	570-306-1.5	8.1	0.0043	0.004263171
570-307	0	570-307-0	8.7	0.0046	0.004578963
570-307	0.3	570-307-0.3	130	0.0684	0.068474550

TABLE C-10
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 300s
COMBINED LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-307	0.6	570-307-0.6	24	0.0126	0.012631915
570-307	0.9	570-307-0.9	12	0.0063	0.006315831
570-307	1.5	570-307-1.5	7.6	0.0040	0.004000011
570-308	0	570-308-0	220	0.1158	0.116049783
570-308	0.3	570-308-0.3	11	0.0058	0.005789506
570-308	0.6	570-308-0.6	7.3	0.0038	0.003842115
570-308	0.9	570-308-0.9	12	0.0063	0.006315831
570-308	1.5	570-308-1.5	8.6	0.0045	0.004526331
570-309	0	570-309-0	85	0.0447	0.044751778
570-309	0.3	570-309-0.3	96	0.0505	0.050547839
570-311	0	570-311-0	46	0.0242	0.024212892
570-311	0.3	570-311-0.3	27	0.0142	0.014211005
570-311	0.6	570-311-0.6	1500	0.7895	0.909951031
570-311	0.9	570-311-0.9	19	0.0100	0.010000167
570-311	1.5	570-311-1.5	670	0.3526	0.360381849
570-312	0	570-312-0	45	0.0237	0.023686425
570-312	0.3	570-312-0.3	490	0.2579	0.260842596
570-312	0.6	570-312-0.6	1900	1.0000	1.570796327
570-312	0.9	570-312-0.9	7.5	0.0039	0.003947379
570-312	1.5	570-312-1.5	6	0.0032	0.003157900
570-313	0	570-313-0	17	0.0089	0.008947488
570-313	0.3	570-313-0.3	10	0.0053	0.005263182
570-313	0.6	570-313-0.6	160	0.0842	0.084310374
570-313	0.9	570-313-0.9	9.8	0.0052	0.005157918
570-313	1.5	570-313-1.5	24	0.0126	0.012631915
570-314	0	570-314-0	120	0.0632	0.063199959
570-314	0.3	570-314-0.3	13	0.0068	0.006842159
570-314	0.6	570-314-0.6	920	0.4842	0.505460637
570-314	0.9	570-314-0.9	9.5	0.0050	0.005000021
570-314	1.5	570-314-1.5	49	0.0258	0.025792333

TABLE C-10
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 300s
COMBINED LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-315	0	570-315-0	48	0.0253	0.025265846
570-315	0.3	570-315-0.3	9.3	0.0049	0.004894756
570-315	0.6	570-315-0.6	50	0.0263	0.026318828
570-315	0.9	570-315-0.9	5.6	0.0029	0.002947373
570-315	1.5	570-315-1.5	6.7	0.0035	0.003526323
570-316	0	570-316-0	22	0.0116	0.011579206
570-316	0.3	570-316-0.3	17	0.0089	0.008947488
570-316	0.6	570-316-0.6	39	0.0205	0.020527757
570-316	0.9	570-316-0.9	16	0.0084	0.008421152
570-316	1.5	570-316-1.5	4	0.0021	0.002105265
570-317	0	570-317-0	62	0.0326	0.032637373
570-317	0.3	570-317-0.3	36	0.0189	0.018948502
570-317	0.6	570-317-0.6	190	0.1000	0.100167421
570-317	0.9	570-317-0.9	5.4	0.0028	0.002842109
570-317	1.5	570-317-1.5	5.2	0.0027	0.002736846

Total Lead	Max TTLC:	1900.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	75		75			
Sample Mean:	134		0.080			
Delta = RT - mean	216					
Appropriate Number of Samples:	4					
Standard Deviation of Sample:	321		0.224			
Standard Deviation of Mean:	37		0.026			
Sample Variance:	103063		0.050			
t-value for 90%:	1.294	Need to Transform Data	1.294			
Upper Confidence Limit for 90%:			0.114			
Reverse Transformation for 90%			216.14	mg/kg	14.10	mg/l
t-value for 95%:			1.67			
Upper Confidence Limit for 95%:			0.12			
Reverse Transformation for 95%			234.42	mg/kg	15.36	mg/l

TABLE C-11
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 300s
SURFACE LAYER

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-301	0	570-301-0	270	0.2903	0.294563920
570-302	0	570-302-0	5.7	0.0061	0.006129071
570-303	0	570-303-0	66	0.0710	0.071027448
570-304	0	570-304-0	930	1.0000	1.570796327
570-305	0	570-305-0	590	0.6344	0.687243209
570-306	0	570-306-0	6.2	0.0067	0.006666716
570-307	0	570-307-0	8.7	0.0094	0.009354975
570-308	0	570-308-0	220	0.2366	0.238822941
570-309	0	570-309-0	85	0.0914	0.091525580
570-311	0	570-311-0	46	0.0495	0.049482556
570-312	0	570-312-0	45	0.0484	0.048405998
570-313	0	570-313-0	17	0.0183	0.018280588
570-314	0	570-314-0	120	0.1290	0.129393018
570-315	0	570-315-0	48	0.0516	0.051635846
570-316	0	570-316-0	22	0.0237	0.023658121
570-317	0	570-317-0	62	0.0667	0.066716148

Total Lead	Max TTLC:	930.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	16		16			
Sample Mean:	159		0.210			
Delta = RT - mean	191					
Appropriate Number of Samples:	3					
Standard Deviation of Sample:	254		0.402			
Standard Deviation of Mean:	64		0.100			
Sample Variance:	64517		0.161			
t-value for 90%:	1.341	Need to Transform Data	1.341			
Upper Confidence Limit for 90%:			0.345			
Reverse Transformation for 90%			314.41	mg/kg	20.91	mg/l
t-value for 95%:			1.75			
Upper Confidence Limit for 95%:			0.39			
Reverse Transformation for 95%			350.34	mg/kg	23.40	mg/l

TABLE C-12
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 300s
0.3, 0.6, 0.9, AND 1.5-METER LAYER

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-301	0.3	570-301-0.3	59	0.0311	0.031057624
570-301	0.6	570-301-0.6	30	0.0158	0.015790130
570-302	0.3	570-302-0.3	48	0.0253	0.025265846
570-302	0.6	570-302-0.6	7.9	0.0042	0.004157907
570-302	0.9	570-302-0.9	34	0.0179	0.017895692
570-302	1.5	570-302-1.5	3	0.0016	0.001578948
570-303	0.3	570-303-0.3	120	0.0632	0.063199959
570-303	0.6	570-303-0.6	100	0.0526	0.052655908
570-303	0.9	570-303-0.9	25	0.0132	0.013158274
570-303	1.5	570-303-1.5	3	0.0016	0.001578948
570-304	0.3	570-304-0.3	160	0.0842	0.084310374
570-304	0.6	570-304-0.6	130	0.0684	0.068474550
570-304	0.9	570-304-0.9	4	0.0021	0.002105265
570-304	1.5	570-304-1.5	160	0.0842	0.084310374
570-305	0.3	570-305-0.3	9.3	0.0049	0.004894756
570-305	0.6	570-305-0.6	4	0.0021	0.002105265
570-305	0.9	570-305-0.9	3	0.0016	0.001578948
570-305	1.5	570-305-1.5	5.5	0.0029	0.002894741
570-306	0.3	570-306-0.3	19	0.0100	0.010000167
570-306	0.6	570-306-0.6	49	0.0258	0.025792333
570-306	0.9	570-306-0.9	9.3	0.0049	0.004894756
570-306	1.5	570-306-1.5	8.1	0.0043	0.004263171
570-307	0.3	570-307-0.3	130	0.0684	0.068474550
570-307	0.6	570-307-0.6	24	0.0126	0.012631915
570-307	0.9	570-307-0.9	12	0.0063	0.006315831
570-307	1.5	570-307-1.5	7.6	0.0040	0.004000011
570-308	0.3	570-308-0.3	11	0.0058	0.005789506
570-308	0.6	570-308-0.6	7.3	0.0038	0.003842115

TABLE C-12
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 300s
0.3, 0.6, 0.9, AND 1.5-METER LAYER

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-308	0.9	570-308-0.9	12	0.0063	0.006315831
570-308	1.5	570-308-1.5	8.6	0.0045	0.004526331
570-309	0.3	570-309-0.3	96	0.0505	0.050547839
570-311	0.3	570-311-0.3	27	0.0142	0.014211005
570-311	0.6	570-311-0.6	1500	0.7895	0.909951031
570-311	0.9	570-311-0.9	19	0.0100	0.010000167
570-311	1.5	570-311-1.5	670	0.3526	0.360381849
570-312	0.3	570-312-0.3	490	0.2579	0.260842596
570-312	0.6	570-312-0.6	1900	1.0000	1.570796327
570-312	0.9	570-312-0.9	7.5	0.0039	0.003947379
570-312	1.5	570-312-1.5	6	0.0032	0.003157900
570-313	0.3	570-313-0.3	10	0.0053	0.005263182
570-313	0.6	570-313-0.6	160	0.0842	0.084310374
570-313	0.9	570-313-0.9	9.8	0.0052	0.005157918
570-313	1.5	570-313-1.5	24	0.0126	0.012631915
570-314	0.3	570-314-0.3	13	0.0068	0.006842159
570-314	0.6	570-314-0.6	920	0.4842	0.505460637
570-314	0.9	570-314-0.9	9.5	0.0050	0.005000021
570-314	1.5	570-314-1.5	49	0.0258	0.025792333
570-315	0.3	570-315-0.3	9.3	0.0049	0.004894756
570-315	0.6	570-315-0.6	50	0.0263	0.026318828
570-315	0.9	570-315-0.9	5.6	0.0029	0.002947373
570-315	1.5	570-315-1.5	6.7	0.0035	0.003526323
570-316	0.3	570-316-0.3	17	0.0089	0.008947488
570-316	0.6	570-316-0.6	39	0.0205	0.020527757
570-316	0.9	570-316-0.9	16	0.0084	0.008421152
570-316	1.5	570-316-1.5	4	0.0021	0.002105265
570-317	0.3	570-317-0.3	36	0.0189	0.018948502

TABLE C-12
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 300s
0.3, 0.6, 0.9, AND 1.5-METER LAYER

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-317	0.6	570-317-0.6	190	0.1000	0.100167421
570-317	0.9	570-317-0.9	5.4	0.0028	0.002842109
570-317	1.5	570-317-1.5	5.2	0.0027	0.002736846

Total Lead	Max TTLC:	1900.0	**Transformed Data**			**Soluble Data**	
Number of Samples:	59		59				
Sample Mean:	127		0.079				
Delta = RT - mean	223						
Appropriate Number of Samples:	4						
Standard Deviation of Sample:	339		0.243				
Standard Deviation of Mean:	44		0.032				
Sample Variance:	114589		0.059				
t-value for 90%:	1.297	Need to Transform Data	1.297				
Upper Confidence Limit for 90%:			0.120				
Reverse Transformation for 90%			227.92	mg/kg		14.91	mg/l
t-value for 95%:			1.67				
Upper Confidence Limit for 95%:			0.13				
Reverse Transformation for 95%			250.35	mg/kg		16.47	mg/l

TABLE C-13
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 300s
SURFACE AND 0.3-METER LAYER

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-301	0	570-301-0	270	0.2903	0.294563920
570-301	0.3	570-301-0.3	59	0.0634	0.063483493
570-302	0	570-302-0	5.7	0.0061	0.006129071
570-302	0.3	570-302-0.3	48	0.0516	0.051635846
570-303	0	570-303-0	66	0.0710	0.071027448
570-303	0.3	570-303-0.3	120	0.1290	0.129393018
570-304	0	570-304-0	930	1.0000	1.570796327
570-304	0.3	570-304-0.3	160	0.1720	0.172903229
570-305	0	570-305-0	590	0.6344	0.687243209
570-305	0.3	570-305-0.3	9.3	0.0100	0.010000167
570-306	0	570-306-0	6.2	0.0067	0.006666716
570-306	0.3	570-306-0.3	19	0.0204	0.020431529
570-307	0	570-307-0	8.7	0.0094	0.009354975
570-307	0.3	570-307-0.3	130	0.1398	0.140244225
570-308	0	570-308-0	220	0.2366	0.238822941
570-308	0.3	570-308-0.3	11	0.0118	0.011828233
570-309	0	570-309-0	85	0.0914	0.091525580
570-309	0.3	570-309-0.3	96	0.1032	0.103410013
570-311	0	570-311-0	46	0.0495	0.049482556
570-311	0.3	570-311-0.3	27	0.0290	0.029036338
570-312	0	570-312-0	45	0.0484	0.048405998
570-312	0.3	570-312-0.3	490	0.5269	0.554927546
570-313	0	570-313-0	17	0.0183	0.018280588
570-313	0.3	570-313-0.3	10	0.0108	0.010752895
570-314	0	570-314-0	120	0.1290	0.129393018
570-314	0.3	570-314-0.3	13	0.0140	0.013978950
570-315	0	570-315-0	48	0.0516	0.051635846
570-315	0.3	570-315-0.3	9.3	0.0100	0.010000167

TABLE C-13
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 300s
SURFACE AND 0.3-METER LAYER

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-316	0	570-316-0	22	0.0237	0.023658121
570-316	0.3	570-316-0.3	17	0.0183	0.018280588
570-317	0	570-317-0	62	0.0667	0.066716148
570-317	0.3	570-317-0.3	36	0.0387	0.038719351

Total Lead	Max TTLC:	930.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	32		32			
Sample Mean:	119		0.148			
Delta = RT - mean	231					
Appropriate Number of Samples:	1					
Standard Deviation of Sample:	200		0.302			
Standard Deviation of Mean:	35		0.053			
Sample Variance:	39883		0.091			
t-value for 90%:	1.309	Need to Transform Data	1.309			
Upper Confidence Limit for 90%:			0.218			
Reverse Transformation for 90%			201.14	mg/kg	13.06	mg/l
t-value for 95%:			1.70			
Upper Confidence Limit for 95%:			0.24			
Reverse Transformation for 95%			219.80	mg/kg	14.35	mg/l

TABLE C-14
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 300s
0.6, 0.9 AND 1.5-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-301	0.6	570-301-0.6	30	0.0158	0.015790130
570-302	0.6	570-302-0.6	7.9	0.0042	0.004157907
570-302	0.9	570-302-0.9	34	0.0179	0.017895692
570-302	1.5	570-302-1.5	3	0.0016	0.001578948
570-303	0.6	570-303-0.6	100	0.0526	0.052655908
570-303	0.9	570-303-0.9	25	0.0132	0.013158274
570-303	1.5	570-303-1.5	3	0.0016	0.001578948
570-304	0.6	570-304-0.6	130	0.0684	0.068474550
570-304	0.9	570-304-0.9	4	0.0021	0.002105265
570-304	1.5	570-304-1.5	160	0.0842	0.084310374
570-305	0.6	570-305-0.6	4	0.0021	0.002105265
570-305	0.9	570-305-0.9	3	0.0016	0.001578948
570-305	1.5	570-305-1.5	5.5	0.0029	0.002894741
570-306	0.6	570-306-0.6	49	0.0258	0.025792333
570-306	0.9	570-306-0.9	9.3	0.0049	0.004894756
570-306	1.5	570-306-1.5	8.1	0.0043	0.004263171
570-307	0.6	570-307-0.6	24	0.0126	0.012631915
570-307	0.9	570-307-0.9	12	0.0063	0.006315831
570-307	1.5	570-307-1.5	7.6	0.0040	0.004000011
570-308	0.6	570-308-0.6	7.3	0.0038	0.003842115
570-308	0.9	570-308-0.9	12	0.0063	0.006315831
570-308	1.5	570-308-1.5	8.6	0.0045	0.004526331
570-311	0.6	570-311-0.6	1500	0.7895	0.909951031
570-311	0.9	570-311-0.9	19	0.0100	0.010000167
570-311	1.5	570-311-1.5	670	0.3526	0.360381849
570-312	0.6	570-312-0.6	1900	1.0000	1.570796327
570-312	0.9	570-312-0.9	7.5	0.0039	0.003947379
570-312	1.5	570-312-1.5	6	0.0032	0.003157900
570-313	0.6	570-313-0.6	160	0.0842	0.084310374
570-313	0.9	570-313-0.9	9.8	0.0052	0.005157918

TABLE C-14
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 300s
0.6, 0.9 AND 1.5-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-313	1.5	570-313-1.5	24	0.0126	0.012631915
570-314	0.6	570-314-0.6	920	0.4842	0.505460637
570-314	0.9	570-314-0.9	9.5	0.0050	0.005000021
570-314	1.5	570-314-1.5	49	0.0258	0.025792333
570-315	0.6	570-315-0.6	50	0.0263	0.026318828
570-315	0.9	570-315-0.9	5.6	0.0029	0.002947373
570-315	1.5	570-315-1.5	6.7	0.0035	0.003526323
570-316	0.6	570-316-0.6	39	0.0205	0.020527757
570-316	0.9	570-316-0.9	16	0.0084	0.008421152
570-316	1.5	570-316-1.5	4	0.0021	0.002105265
570-317	0.6	570-317-0.6	190	0.1000	0.100167421
570-317	0.9	570-317-0.9	5.4	0.0028	0.002842109
570-317	1.5	570-317-1.5	5.2	0.0027	0.002736846

Total Lead	Max TTLC:	1900.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	43		43			
Sample Mean:	145		0.093			
Delta = RT - mean	205					
Appropriate Number of Samples:	6					
Standard Deviation of Sample:	390		0.282			
Standard Deviation of Mean:	59		0.043			
Sample Variance:	151840		0.080			
t-value for 90%:	1.302	Need to Transform Data	1.302			
Upper Confidence Limit for 90%:			0.149			
Reverse Transformation for 90%			282.46	mg/kg	18.69	mg/l
t-value for 95%:			1.68			
Upper Confidence Limit for 95%:			0.17			
Reverse Transformation for 95%			313.17	mg/kg	20.82	mg/l

TABLE C-15
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 300s
SURFACE, 0.3 AND 0.6-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-301	0	570-301-0	270	0.1421	0.142587939
570-301	0.3	570-301-0.3	59	0.0311	0.031057624
570-301	0.6	570-301-0.6	30	0.0158	0.015790130
570-302	0	570-302-0	5.7	0.0030	0.003000005
570-302	0.3	570-302-0.3	48	0.0253	0.025265846
570-302	0.6	570-302-0.6	7.9	0.0042	0.004157907
570-303	0	570-303-0	66	0.0347	0.034743832
570-303	0.3	570-303-0.3	120	0.0632	0.063199959
570-303	0.6	570-303-0.6	100	0.0526	0.052655908
570-304	0	570-304-0	930	0.4895	0.511486090
570-304	0.3	570-304-0.3	160	0.0842	0.084310374
570-304	0.6	570-304-0.6	130	0.0684	0.068474550
570-305	0	570-305-0	590	0.3105	0.315746670
570-305	0.3	570-305-0.3	9.3	0.0049	0.004894756
570-305	0.6	570-305-0.6	4	0.0021	0.002105265
570-306	0	570-306-0	6.2	0.0033	0.003263164
570-306	0.3	570-306-0.3	19	0.0100	0.010000167
570-306	0.6	570-306-0.6	49	0.0258	0.025792333
570-307	0	570-307-0	8.7	0.0046	0.004578963
570-307	0.3	570-307-0.3	130	0.0684	0.068474550
570-307	0.6	570-307-0.6	24	0.0126	0.012631915
570-308	0	570-308-0	220	0.1158	0.116049783
570-308	0.3	570-308-0.3	11	0.0058	0.005789506
570-308	0.6	570-308-0.6	7.3	0.0038	0.003842115
570-309	0	570-309-0	85	0.0447	0.044751778
570-309	0.3	570-309-0.3	96	0.0505	0.050547839
570-311	0	570-311-0	46	0.0242	0.024212892
570-311	0.3	570-311-0.3	27	0.0142	0.014211005
570-311	0.6	570-311-0.6	1500	0.7895	0.909951031
570-312	0	570-312-0	45	0.0237	0.023686425
570-312	0.3	570-312-0.3	490	0.2579	0.260842596

TABLE C-15
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 300s
SURFACE, 0.3 AND 0.6-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-312	0.6	570-312-0.6	1900	1.0000	1.570796327
570-313	0	570-313-0	17	0.0089	0.008947488
570-313	0.3	570-313-0.3	10	0.0053	0.005263182
570-313	0.6	570-313-0.6	160	0.0842	0.084310374
570-314	0	570-314-0	120	0.0632	0.063199959
570-314	0.3	570-314-0.3	13	0.0068	0.006842159
570-314	0.6	570-314-0.6	920	0.4842	0.505460637
570-315	0	570-315-0	48	0.0253	0.025265846
570-315	0.3	570-315-0.3	9.3	0.0049	0.004894756
570-315	0.6	570-315-0.6	50	0.0263	0.026318828
570-316	0	570-316-0	22	0.0116	0.011579206
570-316	0.3	570-316-0.3	17	0.0089	0.008947488
570-316	0.6	570-316-0.6	39	0.0205	0.020527757
570-317	0	570-317-0	62	0.0326	0.032637373
570-317	0.3	570-317-0.3	36	0.0189	0.018948502
570-317	0.6	570-317-0.6	190	0.1000	0.100167421

Total Lead	Max TTLC:	1900.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	47		47			
Sample Mean:	190		0.116			
Delta = RT - mean	160					
Appropriate Number of Samples:	10					
Standard Deviation of Sample:	385		0.274			
Standard Deviation of Mean:	56		0.040			
Sample Variance:	147862		0.075			
t-value for 90%:	1.301	Need to Transform Data	1.301			
Upper Confidence Limit for 90%:			0.168			
Reverse Transformation for 90%			316.77	mg/kg	21.07	mg/l
t-value for 95%:			1.68			
Upper Confidence Limit for 95%:			0.18			
Reverse Transformation for 95%			345.08	mg/kg	23.03	mg/l

TABLE C-16
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 300s
0.9 AND 1.5-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-302	0.9	570-302-0.9	34	0.0507	0.050768074
570-302	1.5	570-302-1.5	3	0.0045	0.004477627
570-303	0.9	570-303-0.9	25	0.0373	0.037322097
570-303	1.5	570-303-1.5	3	0.0045	0.004477627
570-304	0.9	570-304-0.9	4	0.0060	0.005970185
570-304	1.5	570-304-1.5	160	0.2388	0.241136059
570-305	0.9	570-305-0.9	3	0.0045	0.004477627
570-305	1.5	570-305-1.5	5.5	0.0082	0.008209047
570-306	0.9	570-306-0.9	9.3	0.0139	0.013881043
570-306	1.5	570-306-1.5	8.1	0.0121	0.012089847
570-307	0.9	570-307-0.9	12	0.0179	0.017911405
570-307	1.5	570-307-1.5	7.6	0.0113	0.011343527
570-308	0.9	570-308-0.9	12	0.0179	0.017911405
570-308	1.5	570-308-1.5	8.6	0.0128	0.012836173
570-311	0.9	570-311-0.9	19	0.0284	0.028362011
570-311	1.5	570-311-1.5	670	1.0000	1.570796327
570-312	0.9	570-312-0.9	7.5	0.0112	0.011194264
570-312	1.5	570-312-1.5	6	0.0090	0.008955344
570-313	0.9	570-313-0.9	9.8	0.0146	0.014627387
570-313	1.5	570-313-1.5	24	0.0358	0.035828560
570-314	0.9	570-314-0.9	9.5	0.0142	0.014179580
570-314	1.5	570-314-1.5	49	0.0731	0.073199681
570-315	0.9	570-315-0.9	5.6	0.0084	0.008358306
570-315	1.5	570-315-1.5	6.7	0.0100	0.010000167
570-316	0.9	570-316-0.9	16	0.0239	0.023882867

TABLE C-16
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 300s
0.9 AND 1.5-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-316	1.5	570-316-1.5	4	0.0060	0.005970185
570-317	0.9	570-317-0.9	5.4	0.0081	0.008059789
570-317	1.5	570-317-1.5	5.2	0.0078	0.007761272

Total Lead	Max TTLC:	670.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	28		28			
Sample Mean:	40		0.081			
Delta = RT - mean	310					
Appropriate Number of Samples:	0					
Standard Deviation of Sample:	127		0.295			
Standard Deviation of Mean:	24		0.056			
Sample Variance:	16115		0.087			
t-value for 90%:	1.314	Need to Transform Data	1.314			
Upper Confidence Limit for 90%:			0.154			
Reverse Transformation for 90%			102.92	mg/kg	6.25	mg/l
t-value for 95%:			1.70			
Upper Confidence Limit for 95%:			0.18			
Reverse Transformation for 95%			117.28	mg/kg	7.24	mg/l

TABLE C-17
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 300s
SURFACE, 0.3, 0.6, AND 0.9-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-301	0	570-301-0	270	0.1421	0.142587939
570-301	0.3	570-301-0.3	59	0.0311	0.031057624
570-301	0.6	570-301-0.6	30	0.0158	0.015790130
570-302	0	570-302-0	5.7	0.0030	0.003000005
570-302	0.3	570-302-0.3	48	0.0253	0.025265846
570-302	0.6	570-302-0.6	7.9	0.0042	0.004157907
570-302	0.9	570-302-0.9	34	0.0179	0.017895692
570-303	0	570-303-0	66	0.0347	0.034743832
570-303	0.3	570-303-0.3	120	0.0632	0.063199959
570-303	0.6	570-303-0.6	100	0.0526	0.052655908
570-303	0.9	570-303-0.9	25	0.0132	0.013158274
570-304	0	570-304-0	930	0.4895	0.511486090
570-304	0.3	570-304-0.3	160	0.0842	0.084310374
570-304	0.6	570-304-0.6	130	0.0684	0.068474550
570-304	0.9	570-304-0.9	4	0.0021	0.002105265
570-305	0	570-305-0	590	0.3105	0.315746670
570-305	0.3	570-305-0.3	9.3	0.0049	0.004894756
570-305	0.6	570-305-0.6	4	0.0021	0.002105265
570-305	0.9	570-305-0.9	3	0.0016	0.001578948
570-306	0	570-306-0	6.2	0.0033	0.003263164
570-306	0.3	570-306-0.3	19	0.0100	0.010000167
570-306	0.6	570-306-0.6	49	0.0258	0.025792333
570-306	0.9	570-306-0.9	9.3	0.0049	0.004894756
570-307	0	570-307-0	8.7	0.0046	0.004578963
570-307	0.3	570-307-0.3	130	0.0684	0.068474550
570-307	0.6	570-307-0.6	24	0.0126	0.012631915
570-307	0.9	570-307-0.9	12	0.0063	0.006315831
570-308	0	570-308-0	220	0.1158	0.116049783

TABLE C-17
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 300s
SURFACE, 0.3, 0.6, AND 0.9-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-308	0.3	570-308-0.3	11	0.0058	0.005789506
570-308	0.6	570-308-0.6	7.3	0.0038	0.003842115
570-308	0.9	570-308-0.9	12	0.0063	0.006315831
570-309	0	570-309-0	85	0.0447	0.044751778
570-309	0.3	570-309-0.3	96	0.0505	0.050547839
570-311	0	570-311-0	46	0.0242	0.024212892
570-311	0.3	570-311-0.3	27	0.0142	0.014211005
570-311	0.6	570-311-0.6	1500	0.7895	0.909951031
570-311	0.9	570-311-0.9	19	0.0100	0.010000167
570-312	0	570-312-0	45	0.0237	0.023686425
570-312	0.3	570-312-0.3	490	0.2579	0.260842596
570-312	0.6	570-312-0.6	1900	1.0000	1.570796327
570-312	0.9	570-312-0.9	7.5	0.0039	0.003947379
570-313	0	570-313-0	17	0.0089	0.008947488
570-313	0.3	570-313-0.3	10	0.0053	0.005263182
570-313	0.6	570-313-0.6	160	0.0842	0.084310374
570-313	0.9	570-313-0.9	9.8	0.0052	0.005157918
570-314	0	570-314-0	120	0.0632	0.063199959
570-314	0.3	570-314-0.3	13	0.0068	0.006842159
570-314	0.6	570-314-0.6	920	0.4842	0.505460637
570-314	0.9	570-314-0.9	9.5	0.0050	0.005000021
570-315	0	570-315-0	48	0.0253	0.025265846
570-315	0.3	570-315-0.3	9.3	0.0049	0.004894756
570-315	0.6	570-315-0.6	50	0.0263	0.026318828
570-315	0.9	570-315-0.9	5.6	0.0029	0.002947373
570-316	0	570-316-0	22	0.0116	0.011579206
570-316	0.3	570-316-0.3	17	0.0089	0.008947488
570-316	0.6	570-316-0.6	39	0.0205	0.020527757

TABLE C-17
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 300s
SURFACE, 0.3, 0.6, AND 0.9-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-316	0.9	570-316-0.9	16	0.0084	0.008421152
570-317	0	570-317-0	62	0.0326	0.032637373
570-317	0.3	570-317-0.3	36	0.0189	0.018948502
570-317	0.6	570-317-0.6	190	0.1000	0.100167421
570-317	0.9	570-317-0.9	5.4	0.0028	0.002842109

Total Lead	Max TTLC:	1900.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	61		61			
Sample Mean:	149		0.091			
Delta = RT - mean	201					
Appropriate Number of Samples:	5					
Standard Deviation of Sample:	345		0.244			
Standard Deviation of Mean:	44		0.031			
Sample Variance:	119024		0.060			
t-value for 90%:	1.296	Need to Transform Data	1.296			
Upper Confidence Limit for 90%:			0.131			
Reverse Transformation for 90%			248.25	mg/kg	16.32	mg/l
t-value for 95%:			1.67			
Upper Confidence Limit for 95%:			0.14			
Reverse Transformation for 95%			270.30	mg/kg	17.85	mg/l

TABLE C-18
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 300s
1.5-METER LAYER

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-302	1.5	570-302-1.5	3	0.0045	0.004477627
570-303	1.5	570-303-1.5	3	0.0045	0.004477627
570-304	1.5	570-304-1.5	160	0.2388	0.241136059
570-305	1.5	570-305-1.5	5.5	0.0082	0.008209047
570-306	1.5	570-306-1.5	8.1	0.0121	0.012089847
570-307	1.5	570-307-1.5	7.6	0.0113	0.011343527
570-308	1.5	570-308-1.5	8.6	0.0128	0.012836173
570-311	1.5	570-311-1.5	670	1.0000	1.570796327
570-312	1.5	570-312-1.5	6	0.0090	0.008955344
570-313	1.5	570-313-1.5	24	0.0358	0.035828560
570-314	1.5	570-314-1.5	49	0.0731	0.073199681
570-315	1.5	570-315-1.5	6.7	0.0100	0.010000167
570-316	1.5	570-316-1.5	4	0.0060	0.005970185
570-317	1.5	570-317-1.5	5.2	0.0078	0.007761272

Total Lead	Max TTLC:	670.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	14		14			
Sample Mean:	69		0.143			
Delta = RT - mean	281					
Appropriate Number of Samples:	1					
Standard Deviation of Sample:	178		0.416			
Standard Deviation of Mean:	48		0.111			
Sample Variance:	31686		0.173			
t-value for 90%:	1.350	Need to Transform Data	1.350			
Upper Confidence Limit for 90%:			0.293			
Reverse Transformation for 90%			193.71	mg/kg	12.54	mg/l
t-value for 95%:			1.77			
Upper Confidence Limit for 95%:			0.34			
Reverse Transformation for 95%			223.48	mg/kg	14.60	mg/l

TABLE C-19
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 500s
COMBINED LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-501	0	570-501-0	200	0.0625	0.062540762
570-501	0.3	570-501-0.3	20	0.0063	0.006250041
570-502	0	570-502-0	65	0.0203	0.020313897
570-502	0.3	570-502-0.3	25	0.0078	0.007812579
570-503	0	570-503-0	72	0.0225	0.022501899
570-503	0.3	570-503-0.3	21	0.0066	0.006562547
570-503	0.6	570-503-0.6	300	0.0938	0.093887875
570-503	0.9	570-503-0.9	6.2	0.0019	0.001937501
570-503	1.5	570-503-1.5	6	0.0019	0.001875001
570-504	0	570-504-0	1100	0.3438	0.350907344
570-504	0.3	570-504-0.3	6	0.0019	0.001875001
570-504	0.6	570-504-0.6	75	0.0234	0.023439646
570-504	0.9	570-504-0.9	540	0.1688	0.169561344
570-504	1.5	570-504-1.5	32	0.0100	0.010000167
570-505	0	570-505-0	9.8	0.0031	0.003062505
570-505	0.3	570-505-0.3	6.7	0.0021	0.002093752
570-505	0.6	570-505-0.6	560	0.1750	0.175905768
570-505	0.9	570-505-0.9	140	0.0438	0.043763969
570-505	1.5	570-505-1.5	33	0.0103	0.010312683
570-506	0	570-506-0	210	0.0656	0.065672195
570-506	0.3	570-506-0.3	13	0.0041	0.004062511
570-506	0.6	570-506-0.6	33	0.0103	0.010312683
570-506	0.9	570-506-0.9	360	0.1125	0.112738666
570-506	1.5	570-506-1.5	20	0.0063	0.006250041
570-507	0	570-507-0	150	0.0469	0.046892183
570-507	0.3	570-507-0.3	14	0.0044	0.004375014
570-507	0.6	570-507-0.6	160	0.0500	0.050020857
570-507	0.9	570-507-0.9	10	0.0031	0.003125005

TABLE C-19
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 500s
COMBINED LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-507	1.5	570-507-1.5	5.4	0.0017	0.001687501
570-508	0	570-508-0	1700	0.5313	0.560075306
570-508	0.3	570-508-0.3	350	0.1094	0.109594256
570-508	0.6	570-508-0.6	560	0.1750	0.175905768
570-508	0.9	570-508-0.9	16	0.0050	0.005000021
570-508	1.5	570-508-1.5	28	0.0088	0.008750112
570-509	0	570-509-0	5.8	0.0018	0.001812501
570-509	0.3	570-509-0.3	8.6	0.0027	0.002687503
570-509	0.6	570-509-0.6	7.2	0.0023	0.002250002
570-509	0.9	570-509-0.9	330	0.1031	0.103308665
570-509	1.5	570-509-1.5	5	0.0016	0.001562501
570-510	0	570-510-0	360	0.1125	0.112738666
570-510	0.3	570-510-0.3	15	0.0047	0.004687517
570-510	0.6	570-510-0.6	180	0.0563	0.056279705
570-510	0.9	570-510-0.9	18	0.0056	0.005625030
570-510	1.5	570-510-1.5	9.5	0.0030	0.002968754
570-511	0	570-511-0	32	0.0100	0.010000167
570-511	0.3	570-511-0.3	28	0.0088	0.008750112
570-511	0.6	570-511-0.6	9.8	0.0031	0.003062505
570-511	0.9	570-511-0.9	48	0.0150	0.015000563
570-511	1.5	570-511-1.5	47	0.0147	0.014688028
570-512	0	570-512-0	130	0.0406	0.040636183
570-512	0.3	570-512-0.3	11	0.0034	0.003437507
570-512	0.6	570-512-0.6	360	0.1125	0.112738666
570-512	0.9	570-512-0.9	11	0.0034	0.003437507
570-512	1.5	570-512-1.5	4	0.0013	0.001250000
570-513	0	570-513-0	240	0.0750	0.075070491
570-513	0.3	570-513-0.3	240	0.0750	0.075070491

TABLE C-19
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 500s
COMBINED LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-513	0.6	570-513-0.6	510	0.1594	0.160057528
570-513	0.9	570-513-0.9	6.7	0.0021	0.002093752
570-513	1.5	570-513-1.5	6.5	0.0020	0.002031251
570-514	0	570-514-0	43	0.0134	0.013437904
570-514	0.3	570-514-0.3	9.9	0.0031	0.003093755
570-514	0.6	570-514-0.6	15	0.0047	0.004687517
570-514	0.9	570-514-0.9	14	0.0044	0.004375014
570-514	1.5	570-514-1.5	15	0.0047	0.004687517
570-515	0	570-515-0	140	0.0438	0.043763969
570-515	0.3	570-515-0.3	61	0.0191	0.019063655
570-515	0.6	570-515-0.6	39	0.0122	0.012187802
570-515	0.9	570-515-0.9	8.4	0.0026	0.002625003
570-515	1.5	570-515-1.5	7.1	0.0022	0.002218752
570-516	0	570-516-0	33	0.0103	0.010312683
570-516	0.3	570-516-0.3	30	0.0094	0.009375137
570-516	0.6	570-516-0.6	68	0.0213	0.021251600
570-516	0.9	570-516-0.9	9.3	0.0029	0.002906254
570-516	1.5	570-516-1.5	33	0.0103	0.010312683
570-517	0	570-517-0	3200	1.0000	1.570796327
570-517	0.3	570-517-0.3	1500	0.4688	0.487875148
570-517	0.6	570-517-0.6	270	0.0844	0.084475435
570-517	0.9	570-517-0.9	13	0.0041	0.004062511
570-517	1.5	570-517-1.5	11	0.0034	0.003437507
570-518	0	570-518-0	240	0.0750	0.075070491
570-518	0.3	570-518-0.3	6.5	0.0020	0.002031251
570-518	0.6	570-518-0.6	24	0.0075	0.007500070
570-518	0.9	570-518-0.9	12	0.0038	0.003750009
570-518	1.5	570-518-1.5	19	0.0059	0.005937535

TABLE C-19
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 500s
COMBINED LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-519	0	570-519-0	300	0.0938	0.093887875
570-519	0.3	570-519-0.3	33	0.0103	0.010312683
570-519	0.6	570-519-0.6	16	0.0050	0.005000021
570-519	0.9	570-519-0.9	5.2	0.0016	0.001625001
570-519	1.5	570-519-1.5	5.4	0.0017	0.001687501

Total Lead	Max TTLC:	3200.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	89		89			
Sample Mean:	176		0.062			
Delta = RT - mean	174					
Appropriate Number of Samples:	10					
Standard Deviation of Sample:	431		0.186			
Standard Deviation of Mean:	46		0.020			
Sample Variance:	185582		0.035			
t-value for 90%:	1.293	Need to Transform Data	1.293			
Upper Confidence Limit for 90%:			0.088			
Reverse Transformation for 90%			279.77	mg/kg	18.50	mg/l
t-value for 95%:			1.67			
Upper Confidence Limit for 95%:			0.09			
Reverse Transformation for 95%			303.14	mg/kg	20.12	mg/l

TABLE C-20
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 500s
SURFACE LAYER

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-501	0	570-501-0	200	0.0625	0.062540762
570-502	0	570-502-0	65	0.0203	0.020313897
570-503	0	570-503-0	72	0.0225	0.022501899
570-504	0	570-504-0	1100	0.3438	0.350907344
570-505	0	570-505-0	9.8	0.0031	0.003062505
570-506	0	570-506-0	210	0.0656	0.065672195
570-507	0	570-507-0	150	0.0469	0.046892183
570-508	0	570-508-0	1700	0.5313	0.560075306
570-509	0	570-509-0	5.8	0.0018	0.001812501
570-510	0	570-510-0	360	0.1125	0.112738666
570-511	0	570-511-0	32	0.0100	0.010000167
570-512	0	570-512-0	130	0.0406	0.040636183
570-513	0	570-513-0	240	0.0750	0.075070491
570-514	0	570-514-0	43	0.0134	0.013437904
570-515	0	570-515-0	140	0.0438	0.043763969
570-516	0	570-516-0	33	0.0103	0.010312683
570-517	0	570-517-0	3200	1.0000	1.570796327
570-518	0	570-518-0	240	0.0750	0.075070491
570-519	0	570-519-0	300	0.0938	0.093887875

Total Lead	Max TTLC:	3200.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	19		19			
Sample Mean:	433		0.167			
Delta = RT - mean	-83					
Appropriate Number of Samples:	160					
Standard Deviation of Sample:	791		0.367			
Standard Deviation of Mean:	181		0.084			
Sample Variance:	625888		0.134			
t-value for 90%:	1.330	Need to Transform Data	1.330			
Upper Confidence Limit for 90%:			0.279			
Reverse Transformation for 90%			881.96	mg/kg	60.24	mg/l
t-value for 95%:			1.73			
Upper Confidence Limit for 95%:			0.31			
Reverse Transformation for 95%			985.97	mg/kg	67.44	mg/l

TABLE C-21
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 500s
0.3, 0.6, 0.9, 1.5-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-501	0.3	570-501-0.3	20	0.0133	0.013333728
570-502	0.3	570-502-0.3	25	0.0167	0.016667438
570-503	0.3	570-503-0.3	21	0.0140	0.014000457
570-503	0.6	570-503-0.6	300	0.2000	0.201357921
570-503	0.9	570-503-0.9	6.2	0.0041	0.004133345
570-503	1.5	570-503-1.5	6	0.0040	0.004000011
570-504	0.3	570-504-0.3	6	0.0040	0.004000011
570-504	0.6	570-504-0.6	75	0.0500	0.050020857
570-504	0.9	570-504-0.9	540	0.3600	0.368267893
570-504	1.5	570-504-1.5	32	0.0213	0.021334952
570-505	0.3	570-505-0.3	6.7	0.0045	0.004466682
570-505	0.6	570-505-0.6	560	0.3733	0.382599561
570-505	0.9	570-505-0.9	140	0.0933	0.093469373
570-505	1.5	570-505-1.5	33	0.0220	0.022001775
570-506	0.3	570-506-0.3	13	0.0087	0.008666775
570-506	0.6	570-506-0.6	33	0.0220	0.022001775
570-506	0.9	570-506-0.9	360	0.2400	0.242365851
570-506	1.5	570-506-1.5	20	0.0133	0.013333728
570-507	0.3	570-507-0.3	14	0.0093	0.009333469
570-507	0.6	570-507-0.6	160	0.1067	0.106869981
570-507	0.9	570-507-0.9	10	0.0067	0.006666716
570-507	1.5	570-507-1.5	5.4	0.0036	0.003600008
570-508	0.3	570-508-0.3	350	0.2333	0.235504237
570-508	0.6	570-508-0.6	560	0.3733	0.382599561
570-508	0.9	570-508-0.9	16	0.0107	0.010666869
570-508	1.5	570-508-1.5	28	0.0187	0.018667751
570-509	0.3	570-509-0.3	8.6	0.0057	0.005733365
570-509	0.6	570-509-0.6	7.2	0.0048	0.004800018
570-509	0.9	570-509-0.9	330	0.2200	0.221814470
570-509	1.5	570-509-1.5	5	0.0033	0.003333340

TABLE C-21
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 500s
0.3, 0.6, 0.9, 1.5-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-510	0.3	570-510-0.3	15	0.0100	0.010000167
570-510	0.6	570-510-0.6	180	0.1200	0.120289882
570-510	0.9	570-510-0.9	18	0.0120	0.012000288
570-510	1.5	570-510-1.5	9.5	0.0063	0.006333376
570-511	0.3	570-511-0.3	28	0.0187	0.018667751
570-511	0.6	570-511-0.6	9.8	0.0065	0.006533380
570-511	0.9	570-511-0.9	48	0.0320	0.032005464
570-511	1.5	570-511-1.5	47	0.0313	0.031338463
570-512	0.3	570-512-0.3	11	0.0073	0.007333399
570-512	0.6	570-512-0.6	360	0.2400	0.242365851
570-512	0.9	570-512-0.9	11	0.0073	0.007333399
570-512	1.5	570-512-1.5	4	0.0027	0.002666670
570-513	0.3	570-513-0.3	240	0.1600	0.160690653
570-513	0.6	570-513-0.6	510	0.3400	0.346916898
570-513	0.9	570-513-0.9	6.7	0.0045	0.004466682
570-513	1.5	570-513-1.5	6.5	0.0043	0.004333347
570-514	0.3	570-514-0.3	9.9	0.0066	0.006600048
570-514	0.6	570-514-0.6	15	0.0100	0.010000167
570-514	0.9	570-514-0.9	14	0.0093	0.009333469
570-514	1.5	570-514-1.5	15	0.0100	0.010000167
570-515	0.3	570-515-0.3	61	0.0407	0.040677884
570-515	0.6	570-515-0.6	39	0.0260	0.026002930
570-515	0.9	570-515-0.9	8.4	0.0056	0.005600029
570-515	1.5	570-515-1.5	7.1	0.0047	0.004733351
570-516	0.3	570-516-0.3	30	0.0200	0.020001334
570-516	0.6	570-516-0.6	68	0.0453	0.045348875
570-516	0.9	570-516-0.9	9.3	0.0062	0.006200040
570-516	1.5	570-516-1.5	33	0.0220	0.022001775
570-517	0.3	570-517-0.3	1500	1.0000	1.570796327
570-517	0.6	570-517-0.6	270	0.1800	0.180986451

TABLE C-21
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 500s
0.3, 0.6, 0.9, 1.5-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-517	0.9	570-517-0.9	13	0.0087	0.008666775
570-517	1.5	570-517-1.5	11	0.0073	0.007333399
570-518	0.3	570-518-0.3	6.5	0.0043	0.004333347
570-518	0.6	570-518-0.6	24	0.0160	0.016000683
570-518	0.9	570-518-0.9	12	0.0080	0.008000085
570-518	1.5	570-518-1.5	19	0.0127	0.012667005
570-519	0.3	570-519-0.3	33	0.0220	0.022001775
570-519	0.6	570-519-0.6	16	0.0107	0.010666869
570-519	0.9	570-519-0.9	5.2	0.0035	0.003466674
570-519	1.5	570-519-1.5	5.4	0.0036	0.003600008

Total Lead	Max TTLC:	1500.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	70		70			
Sample Mean:	106		0.079			
Delta = RT - mean	244					
Appropriate Number of Samples:	1					
Standard Deviation of Sample:	224		0.207			
Standard Deviation of Mean:	27		0.025			
Sample Variance:	50225		0.043			
t-value for 90%:	1.295	Need to Transform Data	1.295			
Upper Confidence Limit for 90%:			0.111			
Reverse Transformation for 90%			166.85	mg/kg	10.68	mg/l
t-value for 95%:			1.67			
Upper Confidence Limit for 95%:			0.12			
Reverse Transformation for 95%			180.61	mg/kg	11.63	mg/l

TABLE C-22
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 500s
SURFACE AND 0.3-METER LAYER

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-501	0	570-501-0	200	0.0625	0.062540762
570-501	0.3	570-501-0.3	20	0.0063	0.006250041
570-502	0	570-502-0	65	0.0203	0.020313897
570-502	0.3	570-502-0.3	25	0.0078	0.007812579
570-503	0	570-503-0	72	0.0225	0.022501899
570-503	0.3	570-503-0.3	21	0.0066	0.006562547
570-504	0	570-504-0	1100	0.3438	0.350907344
570-504	0.3	570-504-0.3	6	0.0019	0.001875001
570-505	0	570-505-0	9.8	0.0031	0.003062505
570-505	0.3	570-505-0.3	6.7	0.0021	0.002093752
570-506	0	570-506-0	210	0.0656	0.065672195
570-506	0.3	570-506-0.3	13	0.0041	0.004062511
570-507	0	570-507-0	150	0.0469	0.046892183
570-507	0.3	570-507-0.3	14	0.0044	0.004375014
570-508	0	570-508-0	1700	0.5313	0.560075306
570-508	0.3	570-508-0.3	350	0.1094	0.109594256
570-509	0	570-509-0	5.8	0.0018	0.001812501
570-509	0.3	570-509-0.3	8.6	0.0027	0.002687503
570-510	0	570-510-0	360	0.1125	0.112738666
570-510	0.3	570-510-0.3	15	0.0047	0.004687517
570-511	0	570-511-0	32	0.0100	0.010000167
570-511	0.3	570-511-0.3	28	0.0088	0.008750112
570-512	0	570-512-0	130	0.0406	0.040636183
570-512	0.3	570-512-0.3	11	0.0034	0.003437507
570-513	0	570-513-0	240	0.0750	0.075070491
570-513	0.3	570-513-0.3	240	0.0750	0.075070491
570-514	0	570-514-0	43	0.0134	0.013437904
570-514	0.3	570-514-0.3	9.9	0.0031	0.003093755
570-515	0	570-515-0	140	0.0438	0.043763969
570-515	0.3	570-515-0.3	61	0.0191	0.019063655

TABLE C-22
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 500s
SURFACE AND 0.3-METER LAYER

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-516	0	570-516-0	33	0.0103	0.010312683
570-516	0.3	570-516-0.3	30	0.0094	0.009375137
570-517	0	570-517-0	3200	1.0000	1.570796327
570-517	0.3	570-517-0.3	1500	0.4688	0.487875148
570-518	0	570-518-0	240	0.0750	0.075070491
570-518	0.3	570-518-0.3	6.5	0.0020	0.002031251
570-519	0	570-519-0	300	0.0938	0.093887875
570-519	0.3	570-519-0.3	33	0.0103	0.010312683

Total Lead	Max TTLC:	3200.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	38		38			
Sample Mean:	280		0.104			
Delta = RT - mean	70					
Appropriate Number of Samples:	133					
Standard Deviation of Sample:	622		0.275			
Standard Deviation of Mean:	101		0.045			
Sample Variance:	386412		0.076			
t-value for 90%:	1.305	Need to Transform Data	1.305			
Upper Confidence Limit for 90%:			0.162			
Reverse Transformation for 90%			516.56	mg/kg	34.91	mg/l
t-value for 95%:			1.69			
Upper Confidence Limit for 95%:			0.18			
Reverse Transformation for 95%			570.42	mg/kg	38.65	mg/l

TABLE C-23
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 500s
0.6, 0.9 AND 1.5-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-503	0.6	570-503-0.6	300	0.5357	0.565353430
570-503	0.9	570-503-0.9	6.2	0.0111	0.011071655
570-503	1.5	570-503-1.5	6	0.0107	0.010714491
570-504	0.6	570-504-0.6	75	0.1339	0.134332214
570-504	0.9	570-504-0.9	540	0.9643	1.302733204
570-504	1.5	570-504-1.5	32	0.0571	0.057174001
570-505	0.6	570-505-0.6	560	1.0000	1.570796327
570-505	0.9	570-505-0.9	140	0.2500	0.252680255
570-505	1.5	570-505-1.5	33	0.0589	0.058962730
570-506	0.6	570-506-0.6	33	0.0589	0.058962730
570-506	0.9	570-506-0.9	360	0.6429	0.698222473
570-506	1.5	570-506-1.5	20	0.0357	0.035721882
570-507	0.6	570-507-0.6	160	0.2857	0.289751701
570-507	0.9	570-507-0.9	10	0.0179	0.017858092
570-507	1.5	570-507-1.5	5.4	0.0096	0.009643007
570-508	0.6	570-508-0.6	560	1.0000	1.570796327
570-508	0.9	570-508-0.9	16	0.0286	0.028575317
570-508	1.5	570-508-1.5	28	0.0500	0.050020857
570-509	0.6	570-509-0.6	7.2	0.0129	0.012857497
570-509	0.9	570-509-0.9	330	0.5893	0.630174456
570-509	1.5	570-509-1.5	5	0.0089	0.008928690
570-510	0.6	570-510-0.6	180	0.3214	0.327237730
570-510	0.9	570-510-0.9	18	0.0321	0.032148395
570-510	1.5	570-510-1.5	9.5	0.0170	0.016965100
570-511	0.6	570-511-0.6	9.8	0.0175	0.017500893
570-511	0.9	570-511-0.9	48	0.0857	0.085819591
570-511	1.5	570-511-1.5	47	0.0839	0.084027417
570-512	0.6	570-512-0.6	360	0.6429	0.698222473
570-512	0.9	570-512-0.9	11	0.0196	0.019644121
570-512	1.5	570-512-1.5	4	0.0071	0.007142918
570-513	0.6	570-513-0.6	510	0.9107	1.145010129
570-513	0.9	570-513-0.9	6.7	0.0120	0.011964571
570-513	1.5	570-513-1.5	6.5	0.0116	0.011607404

TABLE C-23
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 500s
0.6, 0.9 AND 1.5-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-514	0.6	570-514-0.6	15	0.0268	0.026788918
570-514	0.9	570-514-0.9	14	0.0250	0.025002605
570-514	1.5	570-514-1.5	15	0.0268	0.026788918
570-515	0.6	570-515-0.6	39	0.0696	0.069699276
570-515	0.9	570-515-0.9	8.4	0.0150	0.015000563
570-515	1.5	570-515-1.5	7.1	0.0127	0.012678911
570-516	0.6	570-516-0.6	68	0.1214	0.121728978
570-516	0.9	570-516-0.9	9.3	0.0166	0.016607906
570-516	1.5	570-516-1.5	33	0.0589	0.058962730
570-517	0.6	570-517-0.6	270	0.4821	0.503098996
570-517	0.9	570-517-0.9	13	0.0232	0.023216371
570-517	1.5	570-517-1.5	11	0.0196	0.019644121
570-518	0.6	570-518-0.6	24	0.0429	0.042870273
570-518	0.9	570-518-0.9	12	0.0214	0.021430212
570-518	1.5	570-518-1.5	19	0.0339	0.033935084
570-519	0.6	570-519-0.6	16	0.0286	0.028575317
570-519	0.9	570-519-0.9	5.2	0.0093	0.009285848
570-519	1.5	570-519-1.5	5.4	0.0096	0.009643007

Total Lead	Max TTLC:	560.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	51		51			
Sample Mean:	98		0.214			
Delta = RT - mean	252					
Appropriate Number of Samples:	1					
Standard Deviation of Sample:	162		0.397			
Standard Deviation of Mean:	23		0.056			
Sample Variance:	26372		0.158			
t-value for 90%:	1.300	Need to Transform Data	1.300			
Upper Confidence Limit for 90%:			0.286			
Reverse Transformation for 90%			157.98	mg/kg	10.06	mg/l
t-value for 95%:			1.68			
Upper Confidence Limit for 95%:			0.31			
Reverse Transformation for 95%			169.24	mg/kg	10.85	mg/l

TABLE C-24
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 500s
SURFACE, 0.3 AND 0.6-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-501	0	570-501-0	200	0.0625	0.062540762
570-501	0.3	570-501-0.3	20	0.0063	0.006250041
570-502	0	570-502-0	65	0.0203	0.020313897
570-502	0.3	570-502-0.3	25	0.0078	0.007812579
570-503	0	570-503-0	72	0.0225	0.022501899
570-503	0.3	570-503-0.3	21	0.0066	0.006562547
570-503	0.6	570-503-0.6	300	0.0938	0.093887875
570-504	0	570-504-0	1100	0.3438	0.350907344
570-504	0.3	570-504-0.3	6	0.0019	0.001875001
570-504	0.6	570-504-0.6	75	0.0234	0.023439646
570-505	0	570-505-0	9.8	0.0031	0.003062505
570-505	0.3	570-505-0.3	6.7	0.0021	0.002093752
570-505	0.6	570-505-0.6	560	0.1750	0.175905768
570-506	0	570-506-0	210	0.0656	0.065672195
570-506	0.3	570-506-0.3	13	0.0041	0.004062511
570-506	0.6	570-506-0.6	33	0.0103	0.010312683
570-507	0	570-507-0	150	0.0469	0.046892183
570-507	0.3	570-507-0.3	14	0.0044	0.004375014
570-507	0.6	570-507-0.6	160	0.0500	0.050020857
570-508	0	570-508-0	1700	0.5313	0.560075306
570-508	0.3	570-508-0.3	350	0.1094	0.109594256
570-508	0.6	570-508-0.6	560	0.1750	0.175905768
570-509	0	570-509-0	5.8	0.0018	0.001812501
570-509	0.3	570-509-0.3	8.6	0.0027	0.002687503
570-509	0.6	570-509-0.6	7.2	0.0023	0.002250002
570-510	0	570-510-0	360	0.1125	0.112738666

TABLE C-24
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 500s
SURFACE, 0.3 AND 0.6-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-510	0.3	570-510-0.3	15	0.0047	0.004687517
570-510	0.6	570-510-0.6	180	0.0563	0.056279705
570-511	0	570-511-0	32	0.0100	0.010000167
570-511	0.3	570-511-0.3	28	0.0088	0.008750112
570-511	0.6	570-511-0.6	9.8	0.0031	0.003062505
570-512	0	570-512-0	130	0.0406	0.040636183
570-512	0.3	570-512-0.3	11	0.0034	0.003437507
570-512	0.6	570-512-0.6	360	0.1125	0.112738666
570-513	0	570-513-0	240	0.0750	0.075070491
570-513	0.3	570-513-0.3	240	0.0750	0.075070491
570-513	0.6	570-513-0.6	510	0.1594	0.160057528
570-514	0	570-514-0	43	0.0134	0.013437904
570-514	0.3	570-514-0.3	9.9	0.0031	0.003093755
570-514	0.6	570-514-0.6	15	0.0047	0.004687517
570-515	0	570-515-0	140	0.0438	0.043763969
570-515	0.3	570-515-0.3	61	0.0191	0.019063655
570-515	0.6	570-515-0.6	39	0.0122	0.012187802
570-516	0	570-516-0	33	0.0103	0.010312683
570-516	0.3	570-516-0.3	30	0.0094	0.009375137
570-516	0.6	570-516-0.6	68	0.0213	0.021251600
570-517	0	570-517-0	3200	1.0000	1.570796327
570-517	0.3	570-517-0.3	1500	0.4688	0.487875148
570-517	0.6	570-517-0.6	270	0.0844	0.084475435
570-518	0	570-518-0	240	0.0750	0.075070491
570-518	0.3	570-518-0.3	6.5	0.0020	0.002031251
570-518	0.6	570-518-0.6	24	0.0075	0.007500070

TABLE C-24
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 500s
SURFACE, 0.3 AND 0.6-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-519	0	570-519-0	300	0.0938	0.093887875
570-519	0.3	570-519-0.3	33	0.0103	0.010312683
570-519	0.6	570-519-0.6	16	0.0050	0.005000021

Total Lead	Max TTLC:	3200.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	55		55			
Sample Mean:	251		0.090			
Delta = RT - mean	99					
Appropriate Number of Samples:	48					
Standard Deviation of Sample:	528		0.231			
Standard Deviation of Mean:	71		0.031			
Sample Variance:	278733		0.053			
t-value for 90%:	1.298	Need to Transform Data	1.298			
Upper Confidence Limit for 90%:			0.130			
Reverse Transformation for 90%			416.18	mg/kg	27.96	mg/l
t-value for 95%:			1.67			
Upper Confidence Limit for 95%:			0.14			
Reverse Transformation for 95%			453.43	mg/kg	30.54	mg/l

TABLE C-25
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 500s
0.9 AND 1.5-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-503	0.9	570-503-0.9	6.2	0.0115	0.011481734
570-503	1.5	570-503-1.5	6	0.0111	0.011111340
570-504	0.9	570-504-0.9	540	1.0000	1.570796327
570-504	1.5	570-504-1.5	32	0.0593	0.059293997
570-505	0.9	570-505-0.9	140	0.2593	0.262255159
570-505	1.5	570-505-1.5	33	0.0611	0.061149212
570-506	0.9	570-506-0.9	360	0.6667	0.729727656
570-506	1.5	570-506-1.5	20	0.0370	0.037045510
570-507	0.9	570-507-0.9	10	0.0185	0.018519577
570-507	1.5	570-507-1.5	5.4	0.0100	0.010000167
570-508	0.9	570-508-0.9	16	0.0296	0.029633967
570-508	1.5	570-508-1.5	28	0.0519	0.051875115
570-509	0.9	570-509-0.9	330	0.6111	0.657463556
570-509	1.5	570-509-1.5	5	0.0093	0.009259392
570-510	0.9	570-510-0.9	18	0.0333	0.033339509
570-510	1.5	570-510-1.5	9.5	0.0176	0.017593500
570-511	0.9	570-511-0.9	48	0.0889	0.089006362
570-511	1.5	570-511-1.5	47	0.0870	0.087147304
570-512	0.9	570-512-0.9	11	0.0204	0.020371779
570-512	1.5	570-512-1.5	4	0.0074	0.007407475
570-513	0.9	570-513-0.9	6.7	0.0124	0.012407726
570-513	1.5	570-513-1.5	6.5	0.0120	0.012037328
570-514	0.9	570-514-0.9	14	0.0259	0.025928831
570-514	1.5	570-514-1.5	15	0.0278	0.027781351
570-515	0.9	570-515-0.9	8.4	0.0156	0.015556183
570-515	1.5	570-515-1.5	7.1	0.0131	0.013148527
570-516	0.9	570-516-0.9	9.3	0.0172	0.017223074
570-516	1.5	570-516-1.5	33	0.0611	0.061149212

TABLE C-25
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 500s
0.9 AND 1.5-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-517	0.9	570-517-0.9	13	0.0241	0.024076400
570-517	1.5	570-517-1.5	11	0.0204	0.020371779
570-518	0.9	570-518-0.9	12	0.0222	0.022224052
570-518	1.5	570-518-1.5	19	0.0352	0.035192449
570-519	0.9	570-519-0.9	5.2	0.0096	0.009629778
570-519	1.5	570-519-1.5	5.4	0.0100	0.010000167

Total Lead	Max TTLC:	540.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	34		34			
Sample Mean:	54		0.120			
Delta = RT - mean	296					
Appropriate Number of Samples:	0					
Standard Deviation of Sample:	118		0.304			
Standard Deviation of Mean:	20		0.052			
Sample Variance:	14006		0.092			
t-value for 90%:	1.308	Need to Transform Data	1.308			
Upper Confidence Limit for 90%:			0.188			
Reverse Transformation for 90%			101.05	mg/kg	6.12	mg/l
t-value for 95%:			1.69			
Upper Confidence Limit for 95%:			0.21			
Reverse Transformation for 95%			111.68	mg/kg	6.86	mg/l

TABLE C-26
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 500s
SURFACE, 0.3, 0.6, AND 0.9-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-501	0	570-501-0	200	0.0625	0.062540762
570-501	0.3	570-501-0.3	20	0.0063	0.006250041
570-502	0	570-502-0	65	0.0203	0.020313897
570-502	0.3	570-502-0.3	25	0.0078	0.007812579
570-503	0	570-503-0	72	0.0225	0.022501899
570-503	0.3	570-503-0.3	21	0.0066	0.006562547
570-503	0.6	570-503-0.6	300	0.0938	0.093887875
570-503	0.9	570-503-0.9	6.2	0.0019	0.001937501
570-504	0	570-504-0	1100	0.3438	0.350907344
570-504	0.3	570-504-0.3	6	0.0019	0.001875001
570-504	0.6	570-504-0.6	75	0.0234	0.023439646
570-504	0.9	570-504-0.9	540	0.1688	0.169561344
570-505	0	570-505-0	9.8	0.0031	0.003062505
570-505	0.3	570-505-0.3	6.7	0.0021	0.002093752
570-505	0.6	570-505-0.6	560	0.1750	0.175905768
570-505	0.9	570-505-0.9	140	0.0438	0.043763969
570-506	0	570-506-0	210	0.0656	0.065672195
570-506	0.3	570-506-0.3	13	0.0041	0.004062511
570-506	0.6	570-506-0.6	33	0.0103	0.010312683
570-506	0.9	570-506-0.9	360	0.1125	0.112738666
570-507	0	570-507-0	150	0.0469	0.046892183
570-507	0.3	570-507-0.3	14	0.0044	0.004375014
570-507	0.6	570-507-0.6	160	0.0500	0.050020857
570-507	0.9	570-507-0.9	10	0.0031	0.003125005
570-508	0	570-508-0	1700	0.5313	0.560075306
570-508	0.3	570-508-0.3	350	0.1094	0.109594256
570-508	0.6	570-508-0.6	560	0.1750	0.175905768
570-508	0.9	570-508-0.9	16	0.0050	0.005000021
570-509	0	570-509-0	5.8	0.0018	0.001812501
570-509	0.3	570-509-0.3	8.6	0.0027	0.002687503

TABLE C-26
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 500s
SURFACE, 0.3, 0.6, AND 0.9-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-509	0.6	570-509-0.6	7.2	0.0023	0.002250002
570-509	0.9	570-509-0.9	330	0.1031	0.103308665
570-510	0	570-510-0	360	0.1125	0.112738666
570-510	0.3	570-510-0.3	15	0.0047	0.004687517
570-510	0.6	570-510-0.6	180	0.0563	0.056279705
570-510	0.9	570-510-0.9	18	0.0056	0.005625030
570-511	0	570-511-0	32	0.0100	0.010000167
570-511	0.3	570-511-0.3	28	0.0088	0.008750112
570-511	0.6	570-511-0.6	9.8	0.0031	0.003062505
570-511	0.9	570-511-0.9	48	0.0150	0.015000563
570-512	0	570-512-0	130	0.0406	0.040636183
570-512	0.3	570-512-0.3	11	0.0034	0.003437507
570-512	0.6	570-512-0.6	360	0.1125	0.112738666
570-512	0.9	570-512-0.9	11	0.0034	0.003437507
570-513	0	570-513-0	240	0.0750	0.075070491
570-513	0.3	570-513-0.3	240	0.0750	0.075070491
570-513	0.6	570-513-0.6	510	0.1594	0.160057528
570-513	0.9	570-513-0.9	6.7	0.0021	0.002093752
570-514	0	570-514-0	43	0.0134	0.013437904
570-514	0.3	570-514-0.3	9.9	0.0031	0.003093755
570-514	0.6	570-514-0.6	15	0.0047	0.004687517
570-514	0.9	570-514-0.9	14	0.0044	0.004375014
570-515	0	570-515-0	140	0.0438	0.043763969
570-515	0.3	570-515-0.3	61	0.0191	0.019063655
570-515	0.6	570-515-0.6	39	0.0122	0.012187802
570-515	0.9	570-515-0.9	8.4	0.0026	0.002625003
570-516	0	570-516-0	33	0.0103	0.010312683
570-516	0.3	570-516-0.3	30	0.0094	0.009375137
570-516	0.6	570-516-0.6	68	0.0213	0.021251600
570-516	0.9	570-516-0.9	9.3	0.0029	0.002906254

TABLE C-26
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 500s
SURFACE, 0.3, 0.6, AND 0.9-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-517	0	570-517-0	3200	1.0000	1.570796327
570-517	0.3	570-517-0.3	1500	0.4688	0.487875148
570-517	0.6	570-517-0.6	270	0.0844	0.084475435
570-517	0.9	570-517-0.9	13	0.0041	0.004062511
570-518	0	570-518-0	240	0.0750	0.075070491
570-518	0.3	570-518-0.3	6.5	0.0020	0.002031251
570-518	0.6	570-518-0.6	24	0.0075	0.007500070
570-518	0.9	570-518-0.9	12	0.0038	0.003750009
570-519	0	570-519-0	300	0.0938	0.093887875
570-519	0.3	570-519-0.3	33	0.0103	0.010312683
570-519	0.6	570-519-0.6	16	0.0050	0.005000021
570-519	0.9	570-519-0.9	5.2	0.0016	0.001625001

Total Lead	Max TTLC:	3200.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	72		72			
Sample Mean:	213		0.075			
Delta = RT - mean	137					
Appropriate Number of Samples:	20					
Standard Deviation of Sample:	472		0.205			
Standard Deviation of Mean:	56		0.024			
Sample Variance:	222498		0.042			
t-value for 90%:	1.295	Need to Transform Data	1.295			
Upper Confidence Limit for 90%:			0.107			
Reverse Transformation for 90%			340.79	mg/kg	22.73	mg/l
t-value for 95%:			1.67			
Upper Confidence Limit for 95%:			0.12			
Reverse Transformation for 95%			369.49	mg/kg	24.72	mg/l

TABLE C-27
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 500s
1.5-METER LAYER

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-503	1.5	570-503-1.5	6	0.1277	0.128008886
570-504	1.5	570-504-1.5	32	0.6809	0.748923994
570-505	1.5	570-505-1.5	33	0.7021	0.778381183
570-506	1.5	570-506-1.5	20	0.4255	0.439549592
570-507	1.5	570-507-1.5	5.4	0.1149	0.115147907
570-508	1.5	570-508-1.5	28	0.5957	0.638192503
570-509	1.5	570-509-1.5	5	0.1064	0.106584670
570-510	1.5	570-510-1.5	9.5	0.2021	0.203529937
570-511	1.5	570-511-1.5	47	1.0000	1.570796327
570-512	1.5	570-512-1.5	4	0.0851	0.085209458
570-513	1.5	570-513-1.5	6.5	0.1383	0.138742565
570-514	1.5	570-514-1.5	15	0.3191	0.324831325
570-515	1.5	570-515-1.5	7.1	0.1511	0.151644365
570-516	1.5	570-516-1.5	33	0.7021	0.778381183
570-517	1.5	570-517-1.5	11	0.2340	0.236233653
570-518	1.5	570-518-1.5	19	0.4043	0.416164510
570-519	1.5	570-519-1.5	5.4	0.1149	0.115147907

Total Lead	Max TTLC:	47.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	17		17			
Sample Mean:	17		0.410			
Delta = RT - mean	333					
Appropriate Number of Samples:	0					
Standard Deviation of Sample:	13		0.392			
Standard Deviation of Mean:	3		0.095			
Sample Variance:	174		0.154			
t-value for 90%:	1.337	Need to Transform Data	1.337			
Upper Confidence Limit for 90%:			0.537			
Reverse Transformation for 90%			24.06	mg/kg	0.78	mg/l
t-value for 95%:			1.75			
Upper Confidence Limit for 95%:			0.58			
Reverse Transformation for 95%			25.61	mg/kg	0.89	mg/l

TABLE C-28
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 700s
COMBINED LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-701	0	570-701-0	120	0.1091	0.109308455
570-701	0.3	570-701-0.3	21	0.0191	0.019092069
570-701	0.6	570-701-0.6	300	0.2727	0.276226631
570-701	0.9	570-701-0.9	5.5	0.0050	0.005000021
570-701	1.5	570-701-1.5	2	0.0018	0.001818183
570-702	0	570-702-0	180	0.1636	0.164375584
570-702	0.3	570-702-0.3	13	0.0118	0.011818457
570-702	0.6	570-702-0.6	15	0.0136	0.013636786
570-702	0.9	570-702-0.9	5.2	0.0047	0.004727290
570-702	1.5	570-702-1.5	4	0.0036	0.003636372
570-703	0	570-703-0	800	0.7273	0.814339942
570-703	0.3	570-703-0.3	370	0.3364	0.343052865
570-704	0	570-704-0	540	0.4909	0.513132926
570-704	0.3	570-704-0.3	370	0.3364	0.343052865
570-706	0	570-706-0	1100	1.0000	1.570796327
570-706	0.3	570-706-0.3	670	0.6091	0.654913836
570-706	0.6	570-706-0.6	7	0.0064	0.006363679
570-706	0.9	570-706-0.9	5.1	0.0046	0.004636380
570-706	1.5	570-706-1.5	5.1	0.0046	0.004636380
570-707	0	570-707-0	250	0.2273	0.229276203
570-707	0.3	570-707-0.3	87	0.0791	0.079173599
570-707	0.6	570-707-0.6	730	0.6636	0.725669432
570-707	0.9	570-707-0.9	27	0.0245	0.024547920
570-708	0	570-708-0	68	0.0618	0.061857623
570-708	0.3	570-708-0.3	9.9	0.0090	0.009000122
570-708	0.6	570-708-0.6	600	0.5455	0.576931345
570-708	0.9	570-708-0.9	15	0.0136	0.013636786
570-708	1.5	570-708-1.5	69	0.0627	0.062768481
570-709	0	570-709-0	1100	1.0000	1.570796327
570-709	0.3	570-709-0.3	16	0.0145	0.014545967
570-709	0.6	570-709-0.6	110	0.1000	0.100167421
570-709	0.9	570-709-0.9	17	0.0155	0.015455161
570-709	1.5	570-709-1.5	730	0.6636	0.725669432
570-710	0	570-710-0	37	0.0336	0.033642710

TABLE C-28
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 700s
COMBINED LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-710	0.3	570-710-0.3	19	0.0173	0.017273586
570-710	0.6	570-710-0.6	430	0.3909	0.401619067
570-710	0.9	570-710-0.9	5.6	0.0051	0.005090931
570-710	1.5	570-710-1.5	11	0.0100	0.010000167
570-711	0	570-711-0	30	0.0273	0.027276109
570-711	0.3	570-711-0.3	19	0.0173	0.017273586
570-711	0.6	570-711-0.6	120	0.1091	0.109308455
570-711	0.9	570-711-0.9	5.7	0.0052	0.005181841
570-711	1.5	570-711-1.5	5	0.0045	0.004545470
570-712	0	570-712-0	250	0.2273	0.229276203
570-712	0.3	570-712-0.3	14	0.0127	0.012727616
570-712	0.6	570-712-0.6	1000	0.9091	1.141096661
570-712	0.9	570-712-0.9	18	0.0164	0.016364367
570-712	1.5	570-712-1.5	7.5	0.0068	0.006818235
570-713	0	570-713-0	560	0.5091	0.534128253
570-713	0.3	570-713-0.3	89	0.0809	0.080997628
570-713	0.6	570-713-0.6	400	0.3636	0.372168534
570-713	0.9	570-713-0.9	20	0.0182	0.018182820
570-713	1.5	570-713-1.5	7.2	0.0065	0.006545501

Total Lead	Max TTLC:	1100.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	53		53			
Sample Mean:	215		0.229			
Delta = RT - mean	135					
Appropriate Number of Samples:	9					
Standard Deviation of Sample:	311		0.375			
Standard Deviation of Mean:	43		0.051			
Sample Variance:	96583		0.140			
t-value for 90%:	1.299	Need to Transform Data	1.299			
Upper Confidence Limit for 90%:			0.296			
Reverse Transformation for 90%			320.41	mg/kg	21.32	mg/l
t-value for 95%:			1.68			
Upper Confidence Limit for 95%:			0.31			
Reverse Transformation for 95%			340.78	mg/kg	22.73	mg/l

TABLE C-29
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 700s
SURFACE LAYER

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-701	0	570-701-0	120	0.1091	0.109308455
570-702	0	570-702-0	180	0.1636	0.164375584
570-703	0	570-703-0	800	0.7273	0.814339942
570-704	0	570-704-0	540	0.4909	0.513132926
570-706	0	570-706-0	1100	1.0000	1.570796327
570-707	0	570-707-0	250	0.2273	0.229276203
570-708	0	570-708-0	68	0.0618	0.061857623
570-709	0	570-709-0	1100	1.0000	1.570796327
570-710	0	570-710-0	37	0.0336	0.033642710
570-711	0	570-711-0	30	0.0273	0.027276109
570-712	0	570-712-0	250	0.2273	0.229276203
570-713	0	570-713-0	560	0.5091	0.534128253

Total Lead	Max TTLC:	1100.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	12		12			
Sample Mean:	420		0.488			
Delta = RT - mean	-70					
Appropriate Number of Samples:	60					
Standard Deviation of Sample:	397		0.559			
Standard Deviation of Mean:	115		0.161			
Sample Variance:	157390		0.312			
t-value for 90%:	1.363	Need to Transform Data	1.363			
Upper Confidence Limit for 90%:			0.708			
Reverse Transformation for 90%			715.43	mg/kg	48.70	mg/l
t-value for 95%:			1.80			
Upper Confidence Limit for 95%:			0.78			
Reverse Transformation for 95%			772.02	mg/kg	52.62	mg/l

TABLE C-30
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 700s
0.3, 0.6, 0.9, AND 1.5-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-701	0.3	570-701-0.3	21	0.0210	0.021001544
570-701	0.6	570-701-0.6	300	0.3000	0.304692654
570-701	0.9	570-701-0.9	5.5	0.0055	0.005500028
570-701	1.5	570-701-1.5	2	0.0020	0.002000001
570-702	0.3	570-702-0.3	13	0.0130	0.013000366
570-702	0.6	570-702-0.6	15	0.0150	0.015000563
570-702	0.9	570-702-0.9	5.2	0.0052	0.005200023
570-702	1.5	570-702-1.5	4	0.0040	0.004000011
570-703	0.3	570-703-0.3	370	0.3700	0.379009021
570-704	0.3	570-704-0.3	370	0.3700	0.379009021
570-706	0.3	570-706-0.3	670	0.6700	0.734208787
570-706	0.6	570-706-0.6	7	0.0070	0.007000057
570-706	0.9	570-706-0.9	5.1	0.0051	0.005100022
570-706	1.5	570-706-1.5	5.1	0.0051	0.005100022
570-707	0.3	570-707-0.3	87	0.0870	0.087110126
570-707	0.6	570-707-0.6	730	0.7300	0.818321951
570-707	0.9	570-707-0.9	27	0.0270	0.027003282
570-708	0.3	570-708-0.3	9.9	0.0099	0.009900162
570-708	0.6	570-708-0.6	600	0.6000	0.643501109
570-708	0.9	570-708-0.9	15	0.0150	0.015000563
570-708	1.5	570-708-1.5	69	0.0690	0.069054869
570-709	0.3	570-709-0.3	16	0.0160	0.016000683
570-709	0.6	570-709-0.6	110	0.1100	0.110223050
570-709	0.9	570-709-0.9	17	0.0170	0.017000819
570-709	1.5	570-709-1.5	730	0.7300	0.818321951
570-710	0.3	570-710-0.3	19	0.0190	0.019001143
570-710	0.6	570-710-0.6	430	0.4300	0.444492777
570-710	0.9	570-710-0.9	5.6	0.0056	0.005600029
570-710	1.5	570-710-1.5	11	0.0110	0.011000222
570-711	0.3	570-711-0.3	19	0.0190	0.019001143

TABLE C-30
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 700s
0.3, 0.6, 0.9, AND 1.5-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-711	0.6	570-711-0.6	120	0.1200	0.120289882
570-711	0.9	570-711-0.9	5.7	0.0057	0.005700031
570-711	1.5	570-711-1.5	5	0.0050	0.005000021
570-712	0.3	570-712-0.3	14	0.0140	0.014000457
570-712	0.6	570-712-0.6	1000	1.0000	1.570796327
570-712	0.9	570-712-0.9	18	0.0180	0.018000972
570-712	1.5	570-712-1.5	7.5	0.0075	0.007500070
570-713	0.3	570-713-0.3	89	0.0890	0.089117916
570-713	0.6	570-713-0.6	400	0.4000	0.411516846
570-713	0.9	570-713-0.9	20	0.0200	0.020001334
570-713	1.5	570-713-1.5	7.2	0.0072	0.007200062

Total Lead	Max TTLC:	1000.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	41		41			
Sample Mean:	155		0.178			
Delta = RT - mean	195					
Appropriate Number of Samples:	3					
Standard Deviation of Sample:	257		0.327			
Standard Deviation of Mean:	40		0.051			
Sample Variance:	66089		0.107			
t-value for 90%:	1.303	Need to Transform Data	1.303			
Upper Confidence Limit for 90%:			0.244			
Reverse Transformation for 90%			241.59	mg/kg	15.86	mg/l
t-value for 95%:			1.68			
Upper Confidence Limit for 95%:			0.26			
Reverse Transformation for 95%			260.40	mg/kg	17.16	mg/l

TABLE C-31
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 700s
SURFACE AND 0.3-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-701	0	570-701-0	120	0.1091	0.109308455
570-701	0.3	570-701-0.3	21	0.0191	0.019092069
570-702	0	570-702-0	180	0.1636	0.164375584
570-702	0.3	570-702-0.3	13	0.0118	0.011818457
570-703	0	570-703-0	800	0.7273	0.814339942
570-703	0.3	570-703-0.3	370	0.3364	0.343052865
570-704	0	570-704-0	540	0.4909	0.513132926
570-704	0.3	570-704-0.3	370	0.3364	0.343052865
570-706	0	570-706-0	1100	1.0000	1.570796327
570-706	0.3	570-706-0.3	670	0.6091	0.654913836
570-707	0	570-707-0	250	0.2273	0.229276203
570-707	0.3	570-707-0.3	87	0.0791	0.079173599
570-708	0	570-708-0	68	0.0618	0.061857623
570-708	0.3	570-708-0.3	9.9	0.0090	0.009000122
570-709	0	570-709-0	1100	1.0000	1.570796327
570-709	0.3	570-709-0.3	16	0.0145	0.014545967
570-710	0	570-710-0	37	0.0336	0.033642710
570-710	0.3	570-710-0.3	19	0.0173	0.017273586
570-711	0	570-711-0	30	0.0273	0.027276109
570-711	0.3	570-711-0.3	19	0.0173	0.017273586
570-712	0	570-712-0	250	0.2273	0.229276203

TABLE C-31
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 700s
SURFACE AND 0.3-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-712	0.3	570-712-0.3	14	0.0127	0.012727616
570-713	0	570-713-0	560	0.5091	0.534128253
570-713	0.3	570-713-0.3	89	0.0809	0.080997628

Total Lead	Max TTLC:	1100.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	24		24			
Sample Mean:	281		0.311			
Delta = RT - mean	69					
Appropriate Number of Samples:	42					
Standard Deviation of Sample:	342		0.450			
Standard Deviation of Mean:	70		0.092			
Sample Variance:	117180		0.202			
t-value for 90%:	1.319	Need to Transform Data	1.319			
Upper Confidence Limit for 90%:			0.432			
Reverse Transformation for 90%			460.57	mg/kg	31.03	mg/l
t-value for 95%:			1.71			
Upper Confidence Limit for 95%:			0.47			
Reverse Transformation for 95%			496.49	mg/kg	33.52	mg/l

TABLE C-32
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 700s
0.6, 0.9 AND 1.5-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-701	0.6	570-701-0.6	300	0.3000	0.304692654
570-701	0.9	570-701-0.9	5.5	0.0055	0.005500028
570-701	1.5	570-701-1.5	2	0.0020	0.002000001
570-702	0.6	570-702-0.6	15	0.0150	0.015000563
570-702	0.9	570-702-0.9	5.2	0.0052	0.005200023
570-702	1.5	570-702-1.5	4	0.0040	0.004000011
570-706	0.6	570-706-0.6	7	0.0070	0.007000057
570-706	0.9	570-706-0.9	5.1	0.0051	0.005100022
570-706	1.5	570-706-1.5	5.1	0.0051	0.005100022
570-707	0.6	570-707-0.6	730	0.7300	0.818321951
570-707	0.9	570-707-0.9	27	0.0270	0.027003282
570-708	0.6	570-708-0.6	600	0.6000	0.643501109
570-708	0.9	570-708-0.9	15	0.0150	0.015000563
570-708	1.5	570-708-1.5	69	0.0690	0.069054869
570-709	0.6	570-709-0.6	110	0.1100	0.110223050
570-709	0.9	570-709-0.9	17	0.0170	0.017000819
570-709	1.5	570-709-1.5	730	0.7300	0.818321951
570-710	0.6	570-710-0.6	430	0.4300	0.444492777
570-710	0.9	570-710-0.9	5.6	0.0056	0.005600029
570-710	1.5	570-710-1.5	11	0.0110	0.011000222
570-711	0.6	570-711-0.6	120	0.1200	0.120289882
570-711	0.9	570-711-0.9	5.7	0.0057	0.005700031
570-711	1.5	570-711-1.5	5	0.0050	0.005000021
570-712	0.6	570-712-0.6	1000	1.0000	1.570796327
570-712	0.9	570-712-0.9	18	0.0180	0.018000972
570-712	1.5	570-712-1.5	7.5	0.0075	0.007500070

TABLE C-32
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 700s
0.6, 0.9 AND 1.5-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-713	0.6	570-713-0.6	400	0.4000	0.411516846
570-713	0.9	570-713-0.9	20	0.0200	0.020001334
570-713	1.5	570-713-1.5	7.2	0.0072	0.007200062

Total Lead	Max TTLC:	1000.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	29		29			
Sample Mean:	161		0.190			
Delta = RT - mean	189					
Appropriate Number of Samples:	4					
Standard Deviation of Sample:	276		0.362			
Standard Deviation of Mean:	51		0.067			
Sample Variance:	76443		0.131			
t-value for 90%:	1.313	Need to Transform Data	1.313			
Upper Confidence Limit for 90%:			0.278			
Reverse Transformation for 90%			274.35	mg/kg	18.13	mg/l
t-value for 95%:			1.70			
Upper Confidence Limit for 95%:			0.30			
Reverse Transformation for 95%			299.35	mg/kg	19.86	mg/l

TABLE C-33
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 700s
SURFACE, 0.3 AND 0.6-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-701	0	570-701-0	120	0.1091	0.109308455
570-701	0.3	570-701-0.3	21	0.0191	0.019092069
570-701	0.6	570-701-0.6	300	0.2727	0.276226631
570-702	0	570-702-0	180	0.1636	0.164375584
570-702	0.3	570-702-0.3	13	0.0118	0.011818457
570-702	0.6	570-702-0.6	15	0.0136	0.013636786
570-703	0	570-703-0	800	0.7273	0.814339942
570-703	0.3	570-703-0.3	370	0.3364	0.343052865
570-704	0	570-704-0	540	0.4909	0.513132926
570-704	0.3	570-704-0.3	370	0.3364	0.343052865
570-706	0	570-706-0	1100	1.0000	1.570796327
570-706	0.3	570-706-0.3	670	0.6091	0.654913836
570-706	0.6	570-706-0.6	7	0.0064	0.006363679
570-707	0	570-707-0	250	0.2273	0.229276203
570-707	0.3	570-707-0.3	87	0.0791	0.079173599
570-707	0.6	570-707-0.6	730	0.6636	0.725669432
570-708	0	570-708-0	68	0.0618	0.061857623
570-708	0.3	570-708-0.3	9.9	0.0090	0.009000122
570-708	0.6	570-708-0.6	600	0.5455	0.576931345
570-709	0	570-709-0	1100	1.0000	1.570796327
570-709	0.3	570-709-0.3	16	0.0145	0.014545967
570-709	0.6	570-709-0.6	110	0.1000	0.100167421
570-710	0	570-710-0	37	0.0336	0.033642710
570-710	0.3	570-710-0.3	19	0.0173	0.017273586
570-710	0.6	570-710-0.6	430	0.3909	0.401619067
570-711	0	570-711-0	30	0.0273	0.027276109
570-711	0.3	570-711-0.3	19	0.0173	0.017273586
570-711	0.6	570-711-0.6	120	0.1091	0.109308455

TABLE C-33
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 700s
SURFACE, 0.3 AND 0.6-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-712	0	570-712-0	250	0.2273	0.229276203
570-712	0.3	570-712-0.3	14	0.0127	0.012727616
570-712	0.6	570-712-0.6	1000	0.9091	1.141096661
570-713	0	570-713-0	560	0.5091	0.534128253
570-713	0.3	570-713-0.3	89	0.0809	0.080997628
570-713	0.6	570-713-0.6	400	0.3636	0.372168534

Total Lead	Max TTLC:	1100.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	34		34			
Sample Mean:	307		0.329			
Delta = RT - mean	43					
Appropriate Number of Samples:	106					
Standard Deviation of Sample:	336		0.421			
Standard Deviation of Mean:	58		0.072			
Sample Variance:	113025		0.177			
t-value for 90%:	1.308	Need to Transform Data	1.308			
Upper Confidence Limit for 90%:			0.423			
Reverse Transformation for 90%			451.99	mg/kg	30.44	mg/l
t-value for 95%:			1.69			
Upper Confidence Limit for 95%:			0.45			
Reverse Transformation for 95%			479.72	mg/kg	32.36	mg/l

TABLE C-34
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 700s
0.9 AND 1.5-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-701	0.9	570-701-0.9	5.5	0.0075	0.007534318
570-701	1.5	570-701-1.5	2	0.0027	0.002739729
570-702	0.9	570-702-0.9	5.2	0.0071	0.007123348
570-702	1.5	570-702-1.5	4	0.0055	0.005479479
570-706	0.9	570-706-0.9	5.1	0.0070	0.006986358
570-706	1.5	570-706-1.5	5.1	0.0070	0.006986358
570-707	0.9	570-707-0.9	27	0.0370	0.036994739
570-708	0.9	570-708-0.9	15	0.0205	0.020549391
570-708	1.5	570-708-1.5	69	0.0945	0.094661860
570-709	0.9	570-709-0.9	17	0.0233	0.023289777
570-709	1.5	570-709-1.5	730	1.0000	1.570796327
570-710	0.9	570-710-0.9	5.6	0.0077	0.007671308
570-710	1.5	570-710-1.5	11	0.0151	0.015069063
570-711	0.9	570-711-0.9	5.7	0.0078	0.007808299
570-711	1.5	570-711-1.5	5	0.0068	0.006849369
570-712	0.9	570-712-0.9	18	0.0247	0.024660034
570-712	1.5	570-712-1.5	7.5	0.0103	0.010274153
570-713	0.9	570-713-0.9	20	0.0274	0.027400689
570-713	1.5	570-713-1.5	7.2	0.0099	0.009863174

Total Lead	Max TTLC:	730.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	19		19			
Sample Mean:	51		0.100			
Delta = RT - mean	299					
Appropriate Number of Samples:	1					
Standard Deviation of Sample:	165		0.357			
Standard Deviation of Mean:	38		0.082			
Sample Variance:	27282		0.127			
t-value for 90%:	1.330	Need to Transform Data	1.330			
Upper Confidence Limit for 90%:			0.209			
Reverse Transformation for 90%			151.11	mg/kg	9.59	mg/l
t-value for 95%:			1.73			
Upper Confidence Limit for 95%:			0.24			
Reverse Transformation for 95%			174.64	mg/kg	11.22	mg/l

TABLE C-35
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 700s
SURFACE, 0.3, 0.6, AND 0.9-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-701	0	570-701-0	120	0.1091	0.109308455
570-701	0.3	570-701-0.3	21	0.0191	0.019092069
570-701	0.6	570-701-0.6	300	0.2727	0.276226631
570-701	0.9	570-701-0.9	5.5	0.0050	0.005000021
570-702	0	570-702-0	180	0.1636	0.164375584
570-702	0.3	570-702-0.3	13	0.0118	0.011818457
570-702	0.6	570-702-0.6	15	0.0136	0.013636786
570-702	0.9	570-702-0.9	5.2	0.0047	0.004727290
570-703	0	570-703-0	800	0.7273	0.814339942
570-703	0.3	570-703-0.3	370	0.3364	0.343052865
570-704	0	570-704-0	540	0.4909	0.513132926
570-704	0.3	570-704-0.3	370	0.3364	0.343052865
570-706	0	570-706-0	1100	1.0000	1.570796327
570-706	0.3	570-706-0.3	670	0.6091	0.654913836
570-706	0.6	570-706-0.6	7	0.0064	0.006363679
570-706	0.9	570-706-0.9	5.1	0.0046	0.004636380
570-707	0	570-707-0	250	0.2273	0.229276203
570-707	0.3	570-707-0.3	87	0.0791	0.079173599
570-707	0.6	570-707-0.6	730	0.6636	0.725669432
570-707	0.9	570-707-0.9	27	0.0245	0.024547920
570-708	0	570-708-0	68	0.0618	0.061857623
570-708	0.3	570-708-0.3	9.9	0.0090	0.009000122
570-708	0.6	570-708-0.6	600	0.5455	0.576931345
570-708	0.9	570-708-0.9	15	0.0136	0.013636786
570-709	0	570-709-0	1100	1.0000	1.570796327
570-709	0.3	570-709-0.3	16	0.0145	0.014545967
570-709	0.6	570-709-0.6	110	0.1000	0.100167421
570-709	0.9	570-709-0.9	17	0.0155	0.015455161
570-710	0	570-710-0	37	0.0336	0.033642710
570-710	0.3	570-710-0.3	19	0.0173	0.017273586

TABLE C-35
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 700s
SURFACE, 0.3, 0.6, AND 0.9-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-710	0.6	570-710-0.6	430	0.3909	0.401619067
570-710	0.9	570-710-0.9	5.6	0.0051	0.005090931
570-711	0	570-711-0	30	0.0273	0.027276109
570-711	0.3	570-711-0.3	19	0.0173	0.017273586
570-711	0.6	570-711-0.6	120	0.1091	0.109308455
570-711	0.9	570-711-0.9	5.7	0.0052	0.005181841
570-712	0	570-712-0	250	0.2273	0.229276203
570-712	0.3	570-712-0.3	14	0.0127	0.012727616
570-712	0.6	570-712-0.6	1000	0.9091	1.141096661
570-712	0.9	570-712-0.9	18	0.0164	0.016364367
570-713	0	570-713-0	560	0.5091	0.534128253
570-713	0.3	570-713-0.3	89	0.0809	0.080997628
570-713	0.6	570-713-0.6	400	0.3636	0.372168534
570-713	0.9	570-713-0.9	20	0.0182	0.018182820

Total Lead	Max TTLC:	1100.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	44		44			
Sample Mean:	240		0.257			
Delta = RT - mean	110					
Appropriate Number of Samples:	14					
Standard Deviation of Sample:	320		0.393			
Standard Deviation of Mean:	48		0.059			
Sample Variance:	102370		0.154			
t-value for 90%:	1.302	Need to Transform Data	1.302			
Upper Confidence Limit for 90%:			0.334			
Reverse Transformation for 90%			360.46	mg/kg	24.10	mg/l
t-value for 95%:			1.68			
Upper Confidence Limit for 95%:			0.36			
Reverse Transformation for 95%			383.76	mg/kg	25.71	mg/l

TABLE C-36
LEAD ANALYSES - SEGMENT 2 - WESTBOUND 700s
1.5-METER LAYER

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-701	1.5	570-701-1.5	2	0.0027	0.002739729
570-702	1.5	570-702-1.5	4	0.0055	0.005479479
570-706	1.5	570-706-1.5	5.1	0.0070	0.006986358
570-708	1.5	570-708-1.5	69	0.0945	0.094661860
570-709	1.5	570-709-1.5	730	1.0000	1.570796327
570-710	1.5	570-710-1.5	11	0.0151	0.015069063
570-711	1.5	570-711-1.5	5	0.0068	0.006849369
570-712	1.5	570-712-1.5	7.5	0.0103	0.010274153
570-713	1.5	570-713-1.5	7.2	0.0099	0.009863174

Total Lead	Max TTLC:	730.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	9		9			
Sample Mean:	93		0.191			
Delta = RT - mean	257					
Appropriate Number of Samples:	2					
Standard Deviation of Sample:	240		0.518			
Standard Deviation of Mean:	80		0.173			
Sample Variance:	57426		0.268			
t-value for 90%:	1.397	Need to Transform Data	1.397			
Upper Confidence Limit for 90%:			0.433			
Reverse Transformation for 90%			306.08	mg/kg	20.33	mg/l
t-value for 95%:			1.86			
Upper Confidence Limit for 95%:			0.51			
Reverse Transformation for 95%			358.04	mg/kg	23.93	mg/l

TABLE C-37
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 200s
COMBINED LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-201	0	570-201-0	1400	1.0000	1.570796327
570-201	0.3	570-201-0.3	57	0.0407	0.040725542
570-201	0.6	570-201-0.6	6	0.0043	0.004285727
570-201	0.9	570-201-0.9	50	0.0357	0.035721882
570-201	1.5	570-201-1.5	170	0.1214	0.121728978
570-202	0	570-202-0	460	0.3286	0.334790627
570-202	0.3	570-202-0.3	120	0.0857	0.085819591
570-202	0.6	570-202-0.6	65	0.0464	0.046445268
570-202	0.9	570-202-0.9	180	0.1286	0.128928317
570-202	1.5	570-202-1.5	250	0.1786	0.179534351
570-203	0	570-203-0	130	0.0929	0.092991106
570-203	0.3	570-203-0.3	88	0.0629	0.062898608
570-203	0.6	570-203-0.6	130	0.0929	0.092991106
570-204	0	570-204-0	150	0.1071	0.107348916
570-204	0.3	570-204-0.3	94	0.0671	0.067193408
570-205	0	570-205-0	64	0.0457	0.045730223
570-205	0.3	570-205-0.3	16	0.0114	0.011428820
570-205	0.6	570-205-0.6	15	0.0107	0.010714491
570-205	0.9	570-205-0.9	32	0.0229	0.022859134
570-206	0	570-206-0	650	0.4643	0.482827963
570-206	0.3	570-206-0.3	700	0.5000	0.523598776
570-206	0.6	570-206-0.6	200	0.1429	0.143347569
570-206	0.9	570-206-0.9	30	0.0214	0.021430212
570-206	1.5	570-206-1.5	12	0.0086	0.008571534
570-207	0	570-207-0	320	0.2286	0.230610011
570-207	0.3	570-207-0.3	59	0.0421	0.042155342
570-207	0.6	570-207-0.6	250	0.1786	0.179534351
570-208	0	570-208-0	1000	0.7143	0.795602953
570-208	0.3	570-208-0.3	780	0.5571	0.590941199
570-208	0.6	570-208-0.6	770	0.5500	0.582364238
570-209	0	570-209-0	470	0.3357	0.342363422
570-209	0.3	570-209-0.3	580	0.4143	0.427157860

TABLE C-37
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 200s
COMBINED LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-209	0.6	570-209-0.6	130	0.0929	0.092991106
570-209	0.9	570-209-0.9	98	0.0700	0.070057293
570-210	0	570-210-0	640	0.4571	0.474780074
570-210	0.3	570-210-0.3	110	0.0786	0.078652497
570-210	0.6	570-210-0.6	400	0.2857	0.289751701
570-211	0	570-211-0	470	0.3357	0.342363422
570-211	0.3	570-211-0.3	60	0.0429	0.042870273
570-211	0.6	570-211-0.6	35	0.0250	0.025002605
570-212	0	570-212-0	150	0.1071	0.107348916
570-212	0.3	570-212-0.3	10	0.0071	0.007142918
570-212	0.6	570-212-0.6	16	0.0114	0.011428820
570-213	0	570-213-0	85	0.0607	0.060751649
570-214	0	570-214-0	1300	0.9286	1.190545120
570-214	0.3	570-214-0.3	240	0.1714	0.172279524
570-215	0	570-215-0	78	0.0557	0.055743150
570-216	0	570-216-0	230	0.1643	0.165033843
570-216	0.3	570-216-0.3	37	0.0264	0.026431649
570-217	0	570-217-0	140	0.1000	0.100167421
570-218	0	570-218-0	90	0.0643	0.064330075
570-218	0.3	570-218-0.3	180	0.1286	0.128928317
570-218	0.6	570-218-0.6	9.8	0.0070	0.007000057
570-218	0.9	570-218-0.9	2	0.0014	0.001428572
570-218	1.5	570-218-1.5	5.7	0.0041	0.004071440
570-219	0	570-219-0	100	0.0714	0.071489450
570-219	0.3	570-219-0.3	72	0.0514	0.051451269
570-219	0.6	570-219-0.6	140	0.1000	0.100167421
570-220	0	570-220-0	43	0.0307	0.030719117
570-220	0.3	570-220-0.3	17	0.0121	0.012143156
570-220	0.6	570-220-0.6	6.7	0.0048	0.004785733
570-220	0.9	570-220-0.9	2	0.0014	0.001428572
570-220	1.5	570-220-1.5	7.2	0.0051	0.005142880
570-221	0	570-221-0	240	0.1714	0.172279524

TABLE C-37
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 200s
COMBINED LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-222	0	570-222-0	25	0.0179	0.017858092
570-222	0.3	570-222-0.3	8.4	0.0060	0.006000036
570-222	0.6	570-222-0.6	27	0.0193	0.019286910
570-222	0.9	570-222-0.9	30	0.0214	0.021430212
570-222	1.5	570-222-1.5	32	0.0229	0.022859134
570-223	0	570-223-0	330	0.2357	0.237953499
570-223	0.3	570-223-0.3	96	0.0686	0.068625280
570-224	0	570-224-0	310	0.2214	0.223279164
570-224	0.3	570-224-0.3	18	0.0129	0.012857497
570-224	0.6	570-224-0.6	41	0.0293	0.029289902
570-225	0	570-225-0	170	0.1214	0.121728978
570-225	0.3	570-225-0.3	110	0.0786	0.078652497
570-226	0	570-226-0	16	0.0114	0.011428820
570-226	0.3	570-226-0.3	5.9	0.0042	0.004214298
570-226	0.6	570-226-0.6	9.5	0.0068	0.006785766
570-227	0	570-227-0	48	0.0343	0.034292435
570-227	0.3	570-227-0.3	68	0.0486	0.048590547

Total Lead	Max TTLC:	1400.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	81		81			
Sample Mean:	195		0.153			
Delta = RT - mean	155					
Appropriate Number of Samples:	5					
Standard Deviation of Sample:	281		0.255			
Standard Deviation of Mean:	31		0.028			
Sample Variance:	78707		0.065			
t-value for 90%:	1.294	Need to Transform Data	1.294			
Upper Confidence Limit for 90%:			0.189			
Reverse Transformation for 90%			263.52	mg/kg	19.02	mg/l
t-value for 95%:			1.67			
Upper Confidence Limit for 95%:			0.20			
Reverse Transformation for 95%			278.03	mg/kg	20.09	mg/l

TABLE C-38
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 200s
SURFACE LAYER

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-201	0	570-201-0	1400	1.0000	1.570796327
570-202	0	570-202-0	460	0.3286	0.334790627
570-203	0	570-203-0	130	0.0929	0.092991106
570-204	0	570-204-0	150	0.1071	0.107348916
570-205	0	570-205-0	64	0.0457	0.045730223
570-206	0	570-206-0	650	0.4643	0.482827963
570-207	0	570-207-0	320	0.2286	0.230610011
570-208	0	570-208-0	1000	0.7143	0.795602953
570-209	0	570-209-0	470	0.3357	0.342363422
570-210	0	570-210-0	640	0.4571	0.474780074
570-211	0	570-211-0	470	0.3357	0.342363422
570-212	0	570-212-0	150	0.1071	0.107348916
570-213	0	570-213-0	85	0.0607	0.060751649
570-214	0	570-214-0	1300	0.9286	1.190545120
570-215	0	570-215-0	78	0.0557	0.055743150
570-216	0	570-216-0	230	0.1643	0.165033843
570-217	0	570-217-0	140	0.1000	0.100167421
570-218	0	570-218-0	90	0.0643	0.064330075
570-219	0	570-219-0	100	0.0714	0.071489450
570-220	0	570-220-0	43	0.0307	0.030719117
570-221	0	570-221-0	240	0.1714	0.172279524
570-222	0	570-222-0	25	0.0179	0.017858092
570-223	0	570-223-0	330	0.2357	0.237953499
570-224	0	570-224-0	310	0.2214	0.223279164

TABLE C-38
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 200s
SURFACE LAYER

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-225	0	570-225-0	170	0.1214	0.121728978
570-226	0	570-226-0	16	0.0114	0.011428820
570-227	0	570-227-0	48	0.0343	0.034292435

Total Lead	Max TTLC:	1400.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	27		27			
Sample Mean:	337		0.277			
Delta = RT - mean	13					
Appropriate Number of Samples:	1514					
Standard Deviation of Sample:	374		0.369			
Standard Deviation of Mean:	72		0.071			
Sample Variance:	139663		0.136			
t-value for 90%:	1.315	Need to Transform Data	1.315			
Upper Confidence Limit for 90%:			0.371			
Reverse Transformation for 90%			507.08	mg/kg	36.95	mg/l
t-value for 95%:			1.71			
Upper Confidence Limit for 95%:			0.40			
Reverse Transformation for 95%			543.12	mg/kg	39.60	mg/l

TABLE C-39
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 200s
0.3, 0.6, 0.9, AND 1.5-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-201	0.3	570-201-0.3	57	0.0731	0.073142121
570-201	0.6	570-201-0.6	6	0.0077	0.007692384
570-201	0.9	570-201-0.9	50	0.0641	0.064146547
570-201	1.5	570-201-1.5	170	0.2179	0.219712166
570-202	0.3	570-202-0.3	120	0.1538	0.154459598
570-202	0.6	570-202-0.6	65	0.0833	0.083430087
570-202	0.9	570-202-0.9	180	0.2308	0.232868178
570-202	1.5	570-202-1.5	250	0.3205	0.326270819
570-203	0.3	570-203-0.3	88	0.1128	0.113061233
570-203	0.6	570-203-0.6	130	0.1667	0.167448079
570-204	0.3	570-204-0.3	94	0.1205	0.120806452
570-205	0.3	570-205-0.3	16	0.0205	0.020514259
570-205	0.6	570-205-0.6	15	0.0192	0.019231955
570-205	0.9	570-205-0.9	32	0.0410	0.041037158
570-206	0.3	570-206-0.3	700	0.8974	1.113922323
570-206	0.6	570-206-0.6	200	0.2564	0.259306456
570-206	0.9	570-206-0.9	30	0.0385	0.038471027
570-206	1.5	570-206-1.5	12	0.0154	0.015385222
570-207	0.3	570-207-0.3	59	0.0756	0.075713343
570-207	0.6	570-207-0.6	250	0.3205	0.326270819
570-208	0.3	570-208-0.3	780	1.0000	1.570796327
570-208	0.6	570-208-0.6	770	0.9872	1.410496601
570-209	0.3	570-209-0.3	580	0.7436	0.838423206
570-209	0.6	570-209-0.6	130	0.1667	0.167448079
570-209	0.9	570-209-0.9	98	0.1256	0.125973951
570-210	0.3	570-210-0.3	110	0.1410	0.141497333

TABLE C-39
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 200s
0.3, 0.6, 0.9, AND 1.5-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-210	0.6	570-210-0.6	400	0.5128	0.538466991
570-211	0.3	570-211-0.3	60	0.0769	0.076999141
570-211	0.6	570-211-0.6	35	0.0449	0.044886867
570-212	0.3	570-212-0.3	10	0.0128	0.012820864
570-212	0.6	570-212-0.6	16	0.0205	0.020514259
570-214	0.3	570-214-0.3	240	0.3077	0.312766722
570-216	0.3	570-216-0.3	37	0.0474	0.047453705
570-218	0.3	570-218-0.3	180	0.2308	0.232868178
570-218	0.6	570-218-0.6	9.8	0.0126	0.012564433
570-218	0.9	570-218-0.9	2	0.0026	0.002564105
570-218	1.5	570-218-1.5	5.7	0.0073	0.007307757
570-219	0.3	570-219-0.3	72	0.0923	0.092439285
570-219	0.6	570-219-0.6	140	0.1795	0.180465140
570-220	0.3	570-220-0.3	17	0.0218	0.021796598
570-220	0.6	570-220-0.6	6.7	0.0086	0.008589849
570-220	0.9	570-220-0.9	2	0.0026	0.002564105
570-220	1.5	570-220-1.5	7.2	0.0092	0.009230900
570-222	0.3	570-222-0.3	8.4	0.0108	0.010769439
570-222	0.6	570-222-0.6	27	0.0346	0.034622301
570-222	0.9	570-222-0.9	30	0.0385	0.038471027
570-222	1.5	570-222-1.5	32	0.0410	0.041037158
570-223	0.3	570-223-0.3	96	0.1231	0.123389787
570-224	0.3	570-224-0.3	18	0.0231	0.023078972
570-224	0.6	570-224-0.6	41	0.0526	0.052588338
570-225	0.3	570-225-0.3	110	0.1410	0.141497333

TABLE C-39
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 200s
0.3, 0.6, 0.9, AND 1.5-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-226	0.3	570-226-0.3	5.9	0.0076	0.007564175
570-226	0.6	570-226-0.6	9.5	0.0122	0.012179788
570-227	0.3	570-227-0.3	68	0.0872	0.087290298

Total Lead	Max TTLC:	780.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	54		54			
Sample Mean:	124		0.184			
Delta = RT - mean	226					
Appropriate Number of Samples:	1					
Standard Deviation of Sample:	186		0.327			
Standard Deviation of Mean:	25		0.045			
Sample Variance:	34779		0.107			
t-value for 90%:	1.298	Need to Transform Data	1.298			
Upper Confidence Limit for 90%:			0.242			
Reverse Transformation for 90%			186.62	mg/kg	13.36	mg/l
t-value for 95%:			1.68			
Upper Confidence Limit for 95%:			0.26			
Reverse Transformation for 95%			199.31	mg/kg	14.30	mg/l

TABLE C-40
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 200s
SURFACE AND 0.3-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-201	0	570-201-0	1400	1.0000	1.570796327
570-201	0.3	570-201-0.3	57	0.0407	0.040725542
570-202	0	570-202-0	460	0.3286	0.334790627
570-202	0.3	570-202-0.3	120	0.0857	0.085819591
570-203	0	570-203-0	130	0.0929	0.092991106
570-203	0.3	570-203-0.3	88	0.0629	0.062898608
570-204	0	570-204-0	150	0.1071	0.107348916
570-204	0.3	570-204-0.3	94	0.0671	0.067193408
570-205	0	570-205-0	64	0.0457	0.045730223
570-205	0.3	570-205-0.3	16	0.0114	0.011428820
570-206	0	570-206-0	650	0.4643	0.482827963
570-206	0.3	570-206-0.3	700	0.5000	0.523598776
570-207	0	570-207-0	320	0.2286	0.230610011
570-207	0.3	570-207-0.3	59	0.0421	0.042155342
570-208	0	570-208-0	1000	0.7143	0.795602953
570-208	0.3	570-208-0.3	780	0.5571	0.590941199
570-209	0	570-209-0	470	0.3357	0.342363422
570-209	0.3	570-209-0.3	580	0.4143	0.427157860
570-210	0	570-210-0	640	0.4571	0.474780074
570-210	0.3	570-210-0.3	110	0.0786	0.078652497
570-211	0	570-211-0	470	0.3357	0.342363422
570-211	0.3	570-211-0.3	60	0.0429	0.042870273
570-212	0	570-212-0	150	0.1071	0.107348916
570-212	0.3	570-212-0.3	10	0.0071	0.007142918
570-213	0	570-213-0	85	0.0607	0.060751649
570-214	0	570-214-0	1300	0.9286	1.190545120
570-214	0.3	570-214-0.3	240	0.1714	0.172279524
570-215	0	570-215-0	78	0.0557	0.055743150
570-216	0	570-216-0	230	0.1643	0.165033843
570-216	0.3	570-216-0.3	37	0.0264	0.026431649
570-217	0	570-217-0	140	0.1000	0.100167421
570-218	0	570-218-0	90	0.0643	0.064330075
570-218	0.3	570-218-0.3	180	0.1286	0.128928317

TABLE C-40
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 200s
SURFACE AND 0.3-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-219	0	570-219-0	100	0.0714	0.071489450
570-219	0.3	570-219-0.3	72	0.0514	0.051451269
570-220	0	570-220-0	43	0.0307	0.030719117
570-220	0.3	570-220-0.3	17	0.0121	0.012143156
570-221	0	570-221-0	240	0.1714	0.172279524
570-222	0	570-222-0	25	0.0179	0.017858092
570-222	0.3	570-222-0.3	8.4	0.0060	0.006000036
570-223	0	570-223-0	330	0.2357	0.237953499
570-223	0.3	570-223-0.3	96	0.0686	0.068625280
570-224	0	570-224-0	310	0.2214	0.223279164
570-224	0.3	570-224-0.3	18	0.0129	0.012857497
570-225	0	570-225-0	170	0.1214	0.121728978
570-225	0.3	570-225-0.3	110	0.0786	0.078652497
570-226	0	570-226-0	16	0.0114	0.011428820
570-226	0.3	570-226-0.3	5.9	0.0042	0.004214298
570-227	0	570-227-0	48	0.0343	0.034292435
570-227	0.3	570-227-0.3	68	0.0486	0.048590547

Total Lead	Max TTLC:	1400.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	50		50			
Sample Mean:	253		0.202			
Delta = RT - mean	97					
Appropriate Number of Samples:	19					
Standard Deviation of Sample:	323		0.302			
Standard Deviation of Mean:	46		0.043			
Sample Variance:	104553		0.091			
t-value for 90%:	1.300	Need to Transform Data	1.300			
Upper Confidence Limit for 90%:			0.257			
Reverse Transformation for 90%			356.01	mg/kg	25.83	mg/l
t-value for 95%:			1.68			
Upper Confidence Limit for 95%:			0.27			
Reverse Transformation for 95%			377.88	mg/kg	27.44	mg/l

TABLE C-41
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 200s
0.6, 0.9 AND 1.5-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-201	0.6	570-201-0.6	6	0.0078	0.007792287
570-201	0.9	570-201-0.9	50	0.0649	0.064980786
570-201	1.5	570-201-1.5	170	0.2208	0.222613334
570-202	0.6	570-202-0.6	65	0.0844	0.084516165
570-202	0.9	570-202-0.9	180	0.2338	0.235949450
570-202	1.5	570-202-1.5	250	0.3247	0.330668436
570-203	0.6	570-203-0.6	130	0.1688	0.169643694
570-205	0.6	570-205-0.6	15	0.0195	0.019481752
570-205	0.9	570-205-0.9	32	0.0416	0.041570413
570-206	0.6	570-206-0.6	200	0.2597	0.262753221
570-206	0.9	570-206-0.9	30	0.0390	0.038970903
570-206	1.5	570-206-1.5	12	0.0156	0.015585046
570-207	0.6	570-207-0.6	250	0.3247	0.330668436
570-208	0.6	570-208-0.6	770	1.0000	1.570796327
570-209	0.6	570-209-0.6	130	0.1688	0.169643694
570-209	0.9	570-209-0.9	98	0.1273	0.127618858
570-210	0.6	570-210-0.6	400	0.5195	0.546242891
570-211	0.6	570-211-0.6	35	0.0455	0.045470212
570-212	0.6	570-212-0.6	16	0.0208	0.020780716
570-218	0.6	570-218-0.6	9.8	0.0127	0.012727616
570-218	0.9	570-218-0.9	2	0.0026	0.002597406
570-218	1.5	570-218-1.5	5.7	0.0074	0.007402665
570-219	0.6	570-219-0.6	140	0.1818	0.182835137
570-220	0.6	570-220-0.6	6.7	0.0087	0.008701409
570-220	0.9	570-220-0.9	2	0.0026	0.002597406
570-220	1.5	570-220-1.5	7.2	0.0094	0.009350786
570-222	0.6	570-222-0.6	27	0.0351	0.035072125
570-222	0.9	570-222-0.9	30	0.0390	0.038970903

TABLE C-41
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 200s
0.6, 0.9 AND 1.5-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-222	1.5	570-222-1.5	32	0.0416	0.041570413
570-224	0.6	570-224-0.6	41	0.0532	0.053271946
570-226	0.6	570-226-0.6	9.5	0.0123	0.012337975

Total Lead	Max TTLC:	770.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	31		31			
Sample Mean:	102		0.152			
Delta = RT - mean	248					
Appropriate Number of Samples:	1					
Standard Deviation of Sample:	157		0.293			
Standard Deviation of Mean:	28		0.053			
Sample Variance:	24564		0.086			
t-value for 90%:	1.310	Need to Transform Data	1.310			
Upper Confidence Limit for 90%:			0.221			
Reverse Transformation for 90%			168.77	mg/kg	12.05	mg/l
t-value for 95%:			1.70			
Upper Confidence Limit for 95%:			0.24			
Reverse Transformation for 95%			184.03	mg/kg	13.17	mg/l

TABLE C-42
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 200s
SURFACE, 0.3 AND 0.6-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-201	0	570-201-0	1400	1.0000	1.570796327
570-201	0.3	570-201-0.3	57	0.0407	0.040725542
570-201	0.6	570-201-0.6	6	0.0043	0.004285727
570-202	0	570-202-0	460	0.3286	0.334790627
570-202	0.3	570-202-0.3	120	0.0857	0.085819591
570-202	0.6	570-202-0.6	65	0.0464	0.046445268
570-203	0	570-203-0	130	0.0929	0.092991106
570-203	0.3	570-203-0.3	88	0.0629	0.062898608
570-203	0.6	570-203-0.6	130	0.0929	0.092991106
570-204	0	570-204-0	150	0.1071	0.107348916
570-204	0.3	570-204-0.3	94	0.0671	0.067193408
570-205	0	570-205-0	64	0.0457	0.045730223
570-205	0.3	570-205-0.3	16	0.0114	0.011428820
570-205	0.6	570-205-0.6	15	0.0107	0.010714491
570-206	0	570-206-0	650	0.4643	0.482827963
570-206	0.3	570-206-0.3	700	0.5000	0.523598776
570-206	0.6	570-206-0.6	200	0.1429	0.143347569
570-207	0	570-207-0	320	0.2286	0.230610011
570-207	0.3	570-207-0.3	59	0.0421	0.042155342
570-207	0.6	570-207-0.6	250	0.1786	0.179534351
570-208	0	570-208-0	1000	0.7143	0.795602953
570-208	0.3	570-208-0.3	780	0.5571	0.590941199
570-208	0.6	570-208-0.6	770	0.5500	0.582364238
570-209	0	570-209-0	470	0.3357	0.342363422
570-209	0.3	570-209-0.3	580	0.4143	0.427157860
570-209	0.6	570-209-0.6	130	0.0929	0.092991106
570-210	0	570-210-0	640	0.4571	0.474780074
570-210	0.3	570-210-0.3	110	0.0786	0.078652497
570-210	0.6	570-210-0.6	400	0.2857	0.289751701
570-211	0	570-211-0	470	0.3357	0.342363422

TABLE C-42
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 200s
SURFACE, 0.3 AND 0.6-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-211	0.3	570-211-0.3	60	0.0429	0.042870273
570-211	0.6	570-211-0.6	35	0.0250	0.025002605
570-212	0	570-212-0	150	0.1071	0.107348916
570-212	0.3	570-212-0.3	10	0.0071	0.007142918
570-212	0.6	570-212-0.6	16	0.0114	0.011428820
570-213	0	570-213-0	85	0.0607	0.060751649
570-214	0	570-214-0	1300	0.9286	1.190545120
570-214	0.3	570-214-0.3	240	0.1714	0.172279524
570-215	0	570-215-0	78	0.0557	0.055743150
570-216	0	570-216-0	230	0.1643	0.165033843
570-216	0.3	570-216-0.3	37	0.0264	0.026431649
570-217	0	570-217-0	140	0.1000	0.100167421
570-218	0	570-218-0	90	0.0643	0.064330075
570-218	0.3	570-218-0.3	180	0.1286	0.128928317
570-218	0.6	570-218-0.6	9.8	0.0070	0.007000057
570-219	0	570-219-0	100	0.0714	0.071489450
570-219	0.3	570-219-0.3	72	0.0514	0.051451269
570-219	0.6	570-219-0.6	140	0.1000	0.100167421
570-220	0	570-220-0	43	0.0307	0.030719117
570-220	0.3	570-220-0.3	17	0.0121	0.012143156
570-220	0.6	570-220-0.6	6.7	0.0048	0.004785733
570-221	0	570-221-0	240	0.1714	0.172279524
570-222	0	570-222-0	25	0.0179	0.017858092
570-222	0.3	570-222-0.3	8.4	0.0060	0.006000036
570-222	0.6	570-222-0.6	27	0.0193	0.019286910
570-223	0	570-223-0	330	0.2357	0.237953499
570-223	0.3	570-223-0.3	96	0.0686	0.068625280
570-224	0	570-224-0	310	0.2214	0.223279164
570-224	0.3	570-224-0.3	18	0.0129	0.012857497
570-224	0.6	570-224-0.6	41	0.0293	0.029289902

TABLE C-42
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 200s
SURFACE, 0.3 AND 0.6-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-225	0	570-225-0	170	0.1214	0.121728978
570-225	0.3	570-225-0.3	110	0.0786	0.078652497
570-226	0	570-226-0	16	0.0114	0.011428820
570-226	0.3	570-226-0.3	5.9	0.0042	0.004214298
570-226	0.6	570-226-0.6	9.5	0.0068	0.006785766
570-227	0	570-227-0	48	0.0343	0.034292435
570-227	0.3	570-227-0.3	68	0.0486	0.048590547

Total Lead	Max TTLC:	1400.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	67		67			
Sample Mean:	222		0.175			
Delta = RT - mean	128					
Appropriate Number of Samples:	9					
Standard Deviation of Sample:	300		0.274			
Standard Deviation of Mean:	37		0.034			
Sample Variance:	89788		0.075			
t-value for 90%:	1.295	Need to Transform Data	1.295			
Upper Confidence Limit for 90%:			0.218			
Reverse Transformation for 90%			303.30	mg/kg	21.95	mg/l
t-value for 95%:			1.67			
Upper Confidence Limit for 95%:			0.23			
Reverse Transformation for 95%			320.45	mg/kg	23.21	mg/l

TABLE C-43
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 200s
0.9 AND 1.5-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-201	0.9	570-201-0.9	50	0.2000	0.201357921
570-201	1.5	570-201-1.5	170	0.6800	0.747762635
570-202	0.9	570-202-0.9	180	0.7200	0.803802319
570-202	1.5	570-202-1.5	250	1.0000	1.570796327
570-205	0.9	570-205-0.9	32	0.1280	0.128352128
570-206	0.9	570-206-0.9	30	0.1200	0.120289882
570-206	1.5	570-206-1.5	12	0.0480	0.048018451
570-209	0.9	570-209-0.9	98	0.3920	0.402804584
570-218	0.9	570-218-0.9	2	0.0080	0.008000085
570-218	1.5	570-218-1.5	5.7	0.0228	0.022801976
570-220	0.9	570-220-0.9	2	0.0080	0.008000085
570-220	1.5	570-220-1.5	7.2	0.0288	0.028803983
570-222	0.9	570-222-0.9	30	0.1200	0.120289882
570-222	1.5	570-222-1.5	32	0.1280	0.128352128

Total Lead	Max TTLC:	250.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	14		14			
Sample Mean:	64		0.310			
Delta = RT - mean	286					
Appropriate Number of Samples:	0					
Standard Deviation of Sample:	79		0.447			
Standard Deviation of Mean:	21		0.119			
Sample Variance:	6309		0.200			
t-value for 90%:	1.350	Need to Transform Data	1.350			
Upper Confidence Limit for 90%:			0.471			
Reverse Transformation for 90%			113.49	mg/kg	7.98	mg/l
t-value for 95%:			1.77			
Upper Confidence Limit for 95%:			0.52			
Reverse Transformation for 95%			124.54	mg/kg	8.80	mg/l

TABLE C-44
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 200s
SURFACE, 0.3, 0.6, AND 0.9-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-201	0	570-201-0	1400	1.0000	1.570796327
570-201	0.3	570-201-0.3	57	0.0407	0.040725542
570-201	0.6	570-201-0.6	6	0.0043	0.004285727
570-201	0.9	570-201-0.9	50	0.0357	0.035721882
570-202	0	570-202-0	460	0.3286	0.334790627
570-202	0.3	570-202-0.3	120	0.0857	0.085819591
570-202	0.6	570-202-0.6	65	0.0464	0.046445268
570-202	0.9	570-202-0.9	180	0.1286	0.128928317
570-203	0	570-203-0	130	0.0929	0.092991106
570-203	0.3	570-203-0.3	88	0.0629	0.062898608
570-203	0.6	570-203-0.6	130	0.0929	0.092991106
570-204	0	570-204-0	150	0.1071	0.107348916
570-204	0.3	570-204-0.3	94	0.0671	0.067193408
570-205	0	570-205-0	64	0.0457	0.045730223
570-205	0.3	570-205-0.3	16	0.0114	0.011428820
570-205	0.6	570-205-0.6	15	0.0107	0.010714491
570-205	0.9	570-205-0.9	32	0.0229	0.022859134
570-206	0	570-206-0	650	0.4643	0.482827963
570-206	0.3	570-206-0.3	700	0.5000	0.523598776
570-206	0.6	570-206-0.6	200	0.1429	0.143347569
570-206	0.9	570-206-0.9	30	0.0214	0.021430212
570-207	0	570-207-0	320	0.2286	0.230610011
570-207	0.3	570-207-0.3	59	0.0421	0.042155342
570-207	0.6	570-207-0.6	250	0.1786	0.179534351
570-208	0	570-208-0	1000	0.7143	0.795602953
570-208	0.3	570-208-0.3	780	0.5571	0.590941199
570-208	0.6	570-208-0.6	770	0.5500	0.582364238
570-209	0	570-209-0	470	0.3357	0.342363422
570-209	0.3	570-209-0.3	580	0.4143	0.427157860
570-209	0.6	570-209-0.6	130	0.0929	0.092991106
570-209	0.9	570-209-0.9	98	0.0700	0.070057293
570-210	0	570-210-0	640	0.4571	0.474780074

TABLE C-44
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 200s
SURFACE, 0.3, 0.6, AND 0.9-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-210	0.3	570-210-0.3	110	0.0786	0.078652497
570-210	0.6	570-210-0.6	400	0.2857	0.289751701
570-211	0	570-211-0	470	0.3357	0.342363422
570-211	0.3	570-211-0.3	60	0.0429	0.042870273
570-211	0.6	570-211-0.6	35	0.0250	0.025002605
570-212	0	570-212-0	150	0.1071	0.107348916
570-212	0.3	570-212-0.3	10	0.0071	0.007142918
570-212	0.6	570-212-0.6	16	0.0114	0.011428820
570-213	0	570-213-0	85	0.0607	0.060751649
570-214	0	570-214-0	1300	0.9286	1.190545120
570-214	0.3	570-214-0.3	240	0.1714	0.172279524
570-215	0	570-215-0	78	0.0557	0.055743150
570-216	0	570-216-0	230	0.1643	0.165033843
570-216	0.3	570-216-0.3	37	0.0264	0.026431649
570-217	0	570-217-0	140	0.1000	0.100167421
570-218	0	570-218-0	90	0.0643	0.064330075
570-218	0.3	570-218-0.3	180	0.1286	0.128928317
570-218	0.6	570-218-0.6	9.8	0.0070	0.007000057
570-218	0.9	570-218-0.9	2	0.0014	0.001428572
570-219	0	570-219-0	100	0.0714	0.071489450
570-219	0.3	570-219-0.3	72	0.0514	0.051451269
570-219	0.6	570-219-0.6	140	0.1000	0.100167421
570-220	0	570-220-0	43	0.0307	0.030719117
570-220	0.3	570-220-0.3	17	0.0121	0.012143156
570-220	0.6	570-220-0.6	6.7	0.0048	0.004785733
570-220	0.9	570-220-0.9	2	0.0014	0.001428572
570-221	0	570-221-0	240	0.1714	0.172279524
570-222	0	570-222-0	25	0.0179	0.017858092
570-222	0.3	570-222-0.3	8.4	0.0060	0.006000036
570-222	0.6	570-222-0.6	27	0.0193	0.019286910
570-222	0.9	570-222-0.9	30	0.0214	0.021430212
570-223	0	570-223-0	330	0.2357	0.237953499

TABLE C-44
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 200s
SURFACE, 0.3, 0.6, AND 0.9-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-223	0.3	570-223-0.3	96	0.0686	0.068625280
570-224	0	570-224-0	310	0.2214	0.223279164
570-224	0.3	570-224-0.3	18	0.0129	0.012857497
570-224	0.6	570-224-0.6	41	0.0293	0.029289902
570-225	0	570-225-0	170	0.1214	0.121728978
570-225	0.3	570-225-0.3	110	0.0786	0.078652497
570-226	0	570-226-0	16	0.0114	0.011428820
570-226	0.3	570-226-0.3	5.9	0.0042	0.004214298
570-226	0.6	570-226-0.6	9.5	0.0068	0.006785766
570-227	0	570-227-0	48	0.0343	0.034292435
570-227	0.3	570-227-0.3	68	0.0486	0.048590547

Total Lead	Max TTLC:	1400.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	75		75			
Sample Mean:	204		0.160			
Delta = RT - mean	146					
Appropriate Number of Samples:	7					
Standard Deviation of Sample:	288		0.263			
Standard Deviation of Mean:	33		0.030			
Sample Variance:	83182		0.069			
t-value for 90%:	1.294	Need to Transform Data	1.294			
Upper Confidence Limit for 90%:			0.200			
Reverse Transformation for 90%			277.63	mg/kg	20.06	mg/l
t-value for 95%:			1.67			
Upper Confidence Limit for 95%:			0.21			
Reverse Transformation for 95%			293.19	mg/kg	21.21	mg/l

TABLE C-45
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 200s
1.5-METER LAYER

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-201	1.5	570-201-1.5	170	0.6800	0.747762635
570-202	1.5	570-202-1.5	250	1.0000	1.570796327
570-206	1.5	570-206-1.5	12	0.0480	0.048018451
570-218	1.5	570-218-1.5	5.7	0.0228	0.022801976
570-220	1.5	570-220-1.5	7.2	0.0288	0.028803983
570-222	1.5	570-222-1.5	32	0.1280	0.128352128

Total Lead	Max TTLC:	250.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	6		6			
Sample Mean:	79		0.424			
Delta = RT - mean	271					
Appropriate Number of Samples:	0					
Standard Deviation of Sample:	105		0.627			
Standard Deviation of Mean:	43		0.256			
Sample Variance:	10949		0.393			
t-value for 90%:	1.476	Need to Transform Data	1.476			
Upper Confidence Limit for 90%:			0.802			
Reverse Transformation for 90%			179.73	mg/kg	12.86	mg/l
t-value for 95%:			2.02			
Upper Confidence Limit for 95%:			0.94			
Reverse Transformation for 95%			201.92	mg/kg	14.49	mg/l

TABLE C-46
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 400s
COMBINED LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-401	0	570-401-0	400	1.0000	1.570796327
570-401	0.3	570-401-0.3	240	0.6000	0.643501109
570-401	0.6	570-401-0.6	40	0.1000	0.100167421
570-401	0.9	570-401-0.9	99	0.2475	0.250099123
570-401	1.5	570-401-1.5	49	0.1225	0.122808465
570-408	0	570-408-0	61	0.1525	0.153097369
570-408	0.3	570-408-0.3	11	0.0275	0.027503467
570-408	0.6	570-408-0.6	47	0.1175	0.117772066
570-408	0.9	570-408-0.9	18	0.0450	0.045015201
570-408	1.5	570-408-1.5	36	0.0900	0.090121945
570-409	0	570-409-0	230	0.5750	0.612604148
570-409	0.3	570-409-0.3	59	0.1475	0.148040146

Total Lead	Max TTLC:	400.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	12		12			
Sample Mean:	108		0.323			
Delta = RT - mean	243					
Appropriate Number of Samples:	0					
Standard Deviation of Sample:	119		0.443			
Standard Deviation of Mean:	34		0.128			
Sample Variance:	14253		0.196			
t-value for 90%:	1.363	Need to Transform Data	1.363			
Upper Confidence Limit for 90%:			0.498			
Reverse Transformation for 90%			190.99	mg/kg	13.69	mg/l
t-value for 95%:			1.80			
Upper Confidence Limit for 95%:			0.55			
Reverse Transformation for 95%			210.15	mg/kg	15.10	mg/l

TABLE C-47
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 400s
SURFACE LAYER

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-401	0	570-401-0	400	1.0000	1.570796327
570-408	0	570-408-0	61	0.1525	0.153097369
570-409	0	570-409-0	230	0.5750	0.612604148

Total Lead	Max TTLC:	400.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	3		3			
Sample Mean:	230		0.779			
Delta = RT - mean	120					
Appropriate Number of Samples:	7					
Standard Deviation of Sample:	170		0.723			
Standard Deviation of Mean:	98		0.418			
Sample Variance:	28730		0.523			
t-value for 90%:	1.886	Need to Transform Data	1.886			
Upper Confidence Limit for 90%:			1.566			
Reverse Transformation for 90%			NA	mg/kg	NA	mg/l
t-value for 95%:			2.92			
Upper Confidence Limit for 95%:			2.00			
Reverse Transformation for 95%			NA	mg/kg	NA	mg/l

TABLE C-48
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 400s
0.3, 0.6, 0.9, AND 1.5-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-401	0.3	570-401-0.3	240	1.0000	1.570796327
570-401	0.6	570-401-0.6	40	0.1667	0.167448079
570-401	0.9	570-401-0.9	99	0.4125	0.425196727
570-401	1.5	570-401-1.5	49	0.2042	0.205612367
570-408	0.3	570-408-0.3	11	0.0458	0.045849395
570-408	0.6	570-408-0.6	47	0.1958	0.197107166
570-408	0.9	570-408-0.9	18	0.0750	0.075070491
570-408	1.5	570-408-1.5	36	0.1500	0.150568273
570-409	0.3	570-409-0.3	59	0.2458	0.248379315

Total Lead	Max TTLC:	240.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	9		9			
Sample Mean:	67		0.343			
Delta = RT - mean	283					
Appropriate Number of Samples:	0					
Standard Deviation of Sample:	70		0.473			
Standard Deviation of Mean:	23		0.158			
Sample Variance:	4871		0.224			
t-value for 90%:	1.397	Need to Transform Data	1.397			
Upper Confidence Limit for 90%:			0.563			
Reverse Transformation for 90%			128.14	mg/kg	9.06	mg/l
t-value for 95%:			1.86			
Upper Confidence Limit for 95%:			0.64			
Reverse Transformation for 95%			142.61	mg/kg	10.13	mg/l

TABLE C-49
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 400s
SURFACE AND 0.3-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-401	0	570-401-0	400	1.0000	1.570796327
570-401	0.3	570-401-0.3	240	0.6000	0.643501109
570-408	0	570-408-0	61	0.1525	0.153097369
570-408	0.3	570-408-0.3	11	0.0275	0.027503467
570-409	0	570-409-0	230	0.5750	0.612604148
570-409	0.3	570-409-0.3	59	0.1475	0.148040146

Total Lead	Max TTLC:	400.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	6		6			
Sample Mean:	167		0.526			
Delta = RT - mean	183					
Appropriate Number of Samples:	1					
Standard Deviation of Sample:	149		0.573			
Standard Deviation of Mean:	61		0.234			
Sample Variance:	22165		0.329			
t-value for 90%:	1.476	Need to Transform Data	1.476			
Upper Confidence Limit for 90%:			0.871			
Reverse Transformation for 90%			306.09	mg/kg	22.16	mg/l
t-value for 95%:			2.02			
Upper Confidence Limit for 95%:			1.00			
Reverse Transformation for 95%			336.05	mg/kg	24.36	mg/l

TABLE C-50
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 400s
0.6, 0.9 AND 1.5-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-401	0.6	570-401-0.6	40	0.4040	0.415929552
570-401	0.9	570-401-0.9	99	1.0000	1.570796327
570-401	1.5	570-401-1.5	49	0.4949	0.517776707
570-408	0.6	570-408-0.6	47	0.4747	0.494677089
570-408	0.9	570-408-0.9	18	0.1818	0.182835137
570-408	1.5	570-408-1.5	36	0.3636	0.372168534

Total Lead	Max TTLC:	99.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	6		6			
Sample Mean:	48		0.592			
Delta = RT - mean	302					
Appropriate Number of Samples:	0					
Standard Deviation of Sample:	27		0.494			
Standard Deviation of Mean:	11		0.202			
Sample Variance:	742		0.244			
t-value for 90%:	1.476	Need to Transform Data	1.476			
Upper Confidence Limit for 90%:			0.890			
Reverse Transformation for 90%			76.93	mg/kg	5.29	mg/l
t-value for 95%:			2.02			
Upper Confidence Limit for 95%:			1.00			
Reverse Transformation for 95%			83.23	mg/kg	5.76	mg/l

TABLE C-51
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 400s
SURFACE, 0.3 AND 0.6-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-401	0	570-401-0	400	1.0000	1.570796327
570-401	0.3	570-401-0.3	240	0.6000	0.643501109
570-401	0.6	570-401-0.6	40	0.1000	0.100167421
570-408	0	570-408-0	61	0.1525	0.153097369
570-408	0.3	570-408-0.3	11	0.0275	0.027503467
570-408	0.6	570-408-0.6	47	0.1175	0.117772066
570-409	0	570-409-0	230	0.5750	0.612604148
570-409	0.3	570-409-0.3	59	0.1475	0.148040146

Total Lead	Max TTLC:	400.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	8		8			
Sample Mean:	136		0.422			
Delta = RT - mean	214					
Appropriate Number of Samples:	1					
Standard Deviation of Sample:	138		0.522			
Standard Deviation of Mean:	49		0.184			
Sample Variance:	19095		0.272			
t-value for 90%:	1.415	Need to Transform Data	1.415			
Upper Confidence Limit for 90%:			0.683			
Reverse Transformation for 90%			252.33	mg/kg	18.20	mg/l
t-value for 95%:			1.90			
Upper Confidence Limit for 95%:			0.77			
Reverse Transformation for 95%			278.78	mg/kg	20.15	mg/l

TABLE C-52
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 400s
0.9 AND 1.5-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-401	0.9	570-401-0.9	99	1.0000	1.570796327
570-401	1.5	570-401-1.5	49	0.4949	0.517776707
570-408	0.9	570-408-0.9	18	0.1818	0.182835137
570-408	1.5	570-408-1.5	36	0.3636	0.372168534

Total Lead	Max TTLC:	99.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	4		4			
Sample Mean:	51		0.661			
Delta = RT - mean	300					
Appropriate Number of Samples:	0					
Standard Deviation of Sample:	35		0.622			
Standard Deviation of Mean:	17		0.311			
Sample Variance:	1207		0.387			
t-value for 90%:	1.638	Need to Transform Data	1.638			
Upper Confidence Limit for 90%:			1.170			
Reverse Transformation for 90%			91.16	mg/kg	6.34	mg/l
t-value for 95%:			2.35			
Upper Confidence Limit for 95%:			1.39			
Reverse Transformation for 95%			97.43	mg/kg	6.80	mg/l

TABLE C-53
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 400s
SURFACE, 0.3, 0.6, AND 0.9-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-401	0	570-401-0	400	1.0000	1.570796327
570-401	0.3	570-401-0.3	240	0.6000	0.643501109
570-401	0.6	570-401-0.6	40	0.1000	0.100167421
570-401	0.9	570-401-0.9	99	0.2475	0.250099123
570-408	0	570-408-0	61	0.1525	0.153097369
570-408	0.3	570-408-0.3	11	0.0275	0.027503467
570-408	0.6	570-408-0.6	47	0.1175	0.117772066
570-408	0.9	570-408-0.9	18	0.0450	0.045015201
570-409	0	570-409-0	230	0.5750	0.612604148
570-409	0.3	570-409-0.3	59	0.1475	0.148040146

Total Lead	Max TTLC:	400.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	10		10			
Sample Mean:	121		0.367			
Delta = RT - mean	230					
Appropriate Number of Samples:	1					
Standard Deviation of Sample:	128		0.477			
Standard Deviation of Mean:	40		0.151			
Sample Variance:	16284		0.227			
t-value for 90%:	1.383	Need to Transform Data	1.383			
Upper Confidence Limit for 90%:			0.575			
Reverse Transformation for 90%			217.65	mg/kg	15.65	mg/l
t-value for 95%:			1.83			
Upper Confidence Limit for 95%:			0.64			
Reverse Transformation for 95%			239.90	mg/kg	17.29	mg/l

TABLE C-54
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 400s
1.5-METER LAYER

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-401	1.5	570-401-1.5	49	1.0000	1.570796312
570-408	1.5	570-408-1.5	36	0.7347	0.825215328

Total Lead	Max TTLC:	49.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	2		2			
Sample Mean:	43		1.198			
Delta = RT - mean	308					
Appropriate Number of Samples:	0					
Standard Deviation of Sample:	9		0.527			
Standard Deviation of Mean:	7		0.373			
Sample Variance:	85		0.278			
t-value for 90%:	3.078	Need to Transform Data	3.078			
Upper Confidence Limit for 90%:			2.345			
Reverse Transformation for 90%			NA	mg/kg	NA	mg/l
t-value for 95%:			6.31			
Upper Confidence Limit for 95%:			3.55			
Reverse Transformation for 95%			NA	mg/kg	NA	mg/l

TABLE C-55
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 600s
COMBINED LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-601	0	570-601-0	460	0.2421	0.244535081
570-601	0.3	570-601-0.3	44	0.0232	0.023159965
570-601	0.6	570-601-0.6	47	0.0247	0.024739366
570-601	0.9	570-601-0.9	140	0.0737	0.073751050
570-602	0	570-602-0	570	0.3000	0.304692654
570-602	0.3	570-602-0.3	67	0.0353	0.035270470
570-602	0.6	570-602-0.6	110	0.0579	0.057927128
570-602	0.9	570-602-0.9	130	0.0684	0.068474550
570-603	0	570-603-0	650	0.3421	0.349156435
570-603	0.3	570-603-0.3	140	0.0737	0.073751050
570-603	0.6	570-603-0.6	170	0.0895	0.089593497
570-610	0	570-610-0	72	0.0379	0.037903812
570-610	0.3	570-610-0.3	9.6	0.0051	0.005052653
570-610	0.6	570-610-0.6	1900	1.0000	1.570796327
570-610	0.9	570-610-0.9	380	0.2000	0.201357921
570-611	0	570-611-0	200	0.1053	0.105458525
570-611	0.3	570-611-0.3	6.8	0.0036	0.003578955
570-612	0	570-612-0	5.2	0.0027	0.002736846
570-612	0.3	570-612-0.3	25	0.0132	0.013158274
570-612	0.6	570-612-0.6	55	0.0289	0.028951413
570-612	0.9	570-612-0.9	4	0.0021	0.002105265
570-612	1.5	570-612-1.5	3	0.0016	0.001578948
570-613	0	570-613-0	80	0.0421	0.042117714
570-613	0.3	570-613-0.3	7.9	0.0042	0.004157907
570-613	0.6	570-613-0.6	83	0.0437	0.043698116
570-613	0.9	570-613-0.9	20	0.0105	0.010526510

TABLE C-55
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 600s
COMBINED LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-614	0	570-614-0	260	0.1368	0.137272823
570-614	0.3	570-614-0.3	270	0.1421	0.142587939
570-614	0.6	570-614-0.6	260	0.1368	0.137272823
570-614	0.9	570-614-0.9	5.1	0.0027	0.002684214
570-614	1.5	570-614-1.5	5.6	0.0029	0.002947373
570-615	0	570-615-0	1100	0.5789	0.617437104
570-615	0.3	570-615-0.3	5.6	0.0029	0.002947373
570-615	0.6	570-615-0.6	920	0.4842	0.505460637
570-615	0.9	570-615-0.9	9.4	0.0049	0.004947389
570-615	1.5	570-615-1.5	11	0.0058	0.005789506
570-616	0	570-616-0	380	0.2000	0.201357921
570-616	0.3	570-616-0.3	99	0.0521	0.052128869
570-616	0.6	570-616-0.6	630	0.3316	0.337976713
570-616	0.9	570-616-0.9	8.7	0.0046	0.004578963
570-617	0	570-617-0	300	0.1579	0.158558281
570-617	0.3	570-617-0.3	260	0.1368	0.137272823
570-617	0.6	570-617-0.6	34	0.0179	0.017895692
570-618	0	570-618-0	150	0.0789	0.079029608
570-618	0.3	570-618-0.3	41	0.0216	0.021580622
570-618	0.6	570-618-0.6	7	0.0037	0.003684219
570-618	0.9	570-618-0.9	6.5	0.0034	0.003421059
570-618	1.5	570-618-1.5	5.8	0.0031	0.003052636
570-619	0	570-619-0	68	0.0358	0.035797118
570-619	0.3	570-619-0.3	15	0.0079	0.007894819
570-619	0.6	570-619-0.6	6.1	0.0032	0.003210532
570-619	0.9	570-619-0.9	7.8	0.0041	0.004105275

TABLE C-55
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 600s
COMBINED LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-619	1.5	570-619-1.5	7.2	0.0038	0.003789483
570-620	0	570-620-0	74	0.0389	0.038957222
570-620	0.3	570-620-0.3	37	0.0195	0.019474915
570-621	0	570-621-0	69	0.0363	0.036323777
570-621	0.3	570-621-0.3	23	0.0121	0.012105559
570-621	0.9	570-621-0.9	11	0.0058	0.005789506

Total Lead	Max TTLC:	1900.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	58		58			
Sample Mean:	180		0.106			
Delta = RT - mean	170					
Appropriate Number of Samples:	6					
Standard Deviation of Sample:	325		0.233			
Standard Deviation of Mean:	43		0.031			
Sample Variance:	105430		0.054			
t-value for 90%:	1.297	Need to Transform Data	1.297			
Upper Confidence Limit for 90%:			0.146			
Reverse Transformation for 90%			276.24	mg/kg	19.96	mg/l
t-value for 95%:			1.67			
Upper Confidence Limit for 95%:			0.16			
Reverse Transformation for 95%			297.79	mg/kg	21.55	mg/l

TABLE C-56
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 600s
SURFACE LAYER

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-601	0	570-601-0	460	0.4182	0.431442794
570-602	0	570-602-0	570	0.5182	0.544723722
570-603	0	570-603-0	650	0.5909	0.632185249
570-610	0	570-610-0	72	0.0655	0.065501374
570-611	0	570-611-0	200	0.1818	0.182835137
570-612	0	570-612-0	5.2	0.0047	0.004727290
570-613	0	570-613-0	80	0.0727	0.072791538
570-614	0	570-614-0	260	0.2364	0.238621731
570-615	0	570-615-0	1100	1.0000	1.570796327
570-616	0	570-616-0	380	0.3455	0.352723107
570-617	0	570-617-0	300	0.2727	0.276226631
570-618	0	570-618-0	150	0.1364	0.136789827
570-619	0	570-619-0	68	0.0618	0.061857623
570-620	0	570-620-0	74	0.0673	0.067323573
570-621	0	570-621-0	69	0.0627	0.062768481

Total Lead	Max TTLC:	1100.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	15		15			
Sample Mean:	296		0.313			
Delta = RT - mean	54					
Appropriate Number of Samples:	55					
Standard Deviation of Sample:	298		0.397			
Standard Deviation of Mean:	77		0.103			
Sample Variance:	89057		0.158			
t-value for 90%:	1.345	Need to Transform Data	1.345			
Upper Confidence Limit for 90%:			0.451			
Reverse Transformation for 90%			479.79	mg/kg	34.94	mg/l
t-value for 95%:			1.76			
Upper Confidence Limit for 95%:			0.49			
Reverse Transformation for 95%			521.56	mg/kg	38.02	mg/l

TABLE C-57
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 600s
0.3, 0.6, 0.9, AND 1.5-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-601	0.3	570-601-0.3	44	0.0232	0.023159965
570-601	0.6	570-601-0.6	47	0.0247	0.024739366
570-601	0.9	570-601-0.9	140	0.0737	0.073751050
570-602	0.3	570-602-0.3	67	0.0353	0.035270470
570-602	0.6	570-602-0.6	110	0.0579	0.057927128
570-602	0.9	570-602-0.9	130	0.0684	0.068474550
570-603	0.3	570-603-0.3	140	0.0737	0.073751050
570-603	0.6	570-603-0.6	170	0.0895	0.089593497
570-610	0.3	570-610-0.3	9.6	0.0051	0.005052653
570-610	0.6	570-610-0.6	1900	1.0000	1.570796327
570-610	0.9	570-610-0.9	380	0.2000	0.201357921
570-611	0.3	570-611-0.3	6.8	0.0036	0.003578955
570-612	0.3	570-612-0.3	25	0.0132	0.013158274
570-612	0.6	570-612-0.6	55	0.0289	0.028951413
570-612	0.9	570-612-0.9	4	0.0021	0.002105265
570-612	1.5	570-612-1.5	3	0.0016	0.001578948
570-613	0.3	570-613-0.3	7.9	0.0042	0.004157907
570-613	0.6	570-613-0.6	83	0.0437	0.043698116
570-613	0.9	570-613-0.9	20	0.0105	0.010526510
570-614	0.3	570-614-0.3	270	0.1421	0.142587939
570-614	0.6	570-614-0.6	260	0.1368	0.137272823
570-614	0.9	570-614-0.9	5.1	0.0027	0.002684214
570-614	1.5	570-614-1.5	5.6	0.0029	0.002947373
570-615	0.3	570-615-0.3	5.6	0.0029	0.002947373
570-615	0.6	570-615-0.6	920	0.4842	0.505460637
570-615	0.9	570-615-0.9	9.4	0.0049	0.004947389
570-615	1.5	570-615-1.5	11	0.0058	0.005789506
570-616	0.3	570-616-0.3	99	0.0521	0.052128869
570-616	0.6	570-616-0.6	630	0.3316	0.337976713
570-616	0.9	570-616-0.9	8.7	0.0046	0.004578963

TABLE C-57
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 600s
0.3, 0.6, 0.9, AND 1.5-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-617	0.3	570-617-0.3	260	0.1368	0.137272823
570-617	0.6	570-617-0.6	34	0.0179	0.017895692
570-618	0.3	570-618-0.3	41	0.0216	0.021580622
570-618	0.6	570-618-0.6	7	0.0037	0.003684219
570-618	0.9	570-618-0.9	6.5	0.0034	0.003421059
570-618	1.5	570-618-1.5	5.8	0.0031	0.003052636
570-619	0.3	570-619-0.3	15	0.0079	0.007894819
570-619	0.6	570-619-0.6	6.1	0.0032	0.003210532
570-619	0.9	570-619-0.9	7.8	0.0041	0.004105275
570-619	1.5	570-619-1.5	7.2	0.0038	0.003789483
570-620	0.3	570-620-0.3	37	0.0195	0.019474915
570-621	0.3	570-621-0.3	23	0.0121	0.012105559
570-621	0.9	570-621-0.9	11	0.0058	0.005789506

Total Lead	Max TTLC:	1900.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	43		43			
Sample Mean:	140		0.088			
Delta = RT - mean	210					
Appropriate Number of Samples:	4					
Standard Deviation of Sample:	327		0.251			
Standard Deviation of Mean:	50		0.038			
Sample Variance:	106980		0.063			
t-value for 90%:	1.302	Need to Transform Data	1.302			
Upper Confidence Limit for 90%:			0.138			
Reverse Transformation for 90%			260.57	mg/kg	18.81	mg/l
t-value for 95%:			1.68			
Upper Confidence Limit for 95%:			0.15			
Reverse Transformation for 95%			287.92	mg/kg	20.82	mg/l

TABLE C-58
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 600s
SURFACE AND 0.3-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-601	0	570-601-0	460	0.4182	0.431442794
570-601	0.3	570-601-0.3	44	0.0400	0.040010674
570-602	0	570-602-0	570	0.5182	0.544723722
570-602	0.3	570-602-0.3	67	0.0609	0.060946815
570-603	0	570-603-0	650	0.5909	0.632185249
570-603	0.3	570-603-0.3	140	0.1273	0.127618858
570-610	0	570-610-0	72	0.0655	0.065501374
570-610	0.3	570-610-0.3	9.6	0.0087	0.008727384
570-611	0	570-611-0	200	0.1818	0.182835137
570-611	0.3	570-611-0.3	6.8	0.0062	0.006181858
570-612	0	570-612-0	5.2	0.0047	0.004727290
570-612	0.3	570-612-0.3	25	0.0227	0.022729230
570-613	0	570-613-0	80	0.0727	0.072791538
570-613	0.3	570-613-0.3	7.9	0.0072	0.007181880
570-614	0	570-614-0	260	0.2364	0.238621731
570-614	0.3	570-614-0.3	270	0.2455	0.247988554
570-615	0	570-615-0	1100	1.0000	1.570796327
570-615	0.3	570-615-0.3	5.6	0.0051	0.005090931
570-616	0	570-616-0	380	0.3455	0.352723107
570-616	0.3	570-616-0.3	99	0.0900	0.090121945
570-617	0	570-617-0	300	0.2727	0.276226631
570-617	0.3	570-617-0.3	260	0.2364	0.238621731
570-618	0	570-618-0	150	0.1364	0.136789827
570-618	0.3	570-618-0.3	41	0.0373	0.037281363
570-619	0	570-619-0	68	0.0618	0.061857623
570-619	0.3	570-619-0.3	15	0.0136	0.013636786
570-620	0	570-620-0	74	0.0673	0.067323573

TABLE C-58
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 600s
SURFACE AND 0.3-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-620	0.3	570-620-0.3	37	0.0336	0.033642710
570-621	0	570-621-0	69	0.0627	0.062768481
570-621	0.3	570-621-0.3	23	0.0209	0.020910615

Total Lead	Max TTLC:	1100.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	30		30			
Sample Mean:	183		0.189			
Delta = RT - mean	167					
Appropriate Number of Samples:	4					
Standard Deviation of Sample:	245		0.309			
Standard Deviation of Mean:	45		0.056			
Sample Variance:	59883		0.095			
t-value for 90%:	1.311	Need to Transform Data	1.311			
Upper Confidence Limit for 90%:			0.263			
Reverse Transformation for 90%			285.60	mg/kg	20.65	mg/l
t-value for 95%:			1.70			
Upper Confidence Limit for 95%:			0.28			
Reverse Transformation for 95%			308.76	mg/kg	22.35	mg/l

TABLE C-59
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 600s
0.6, 0.9 AND 1.5-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-601	0.6	570-601-0.6	47	0.0247	0.024739366
570-601	0.9	570-601-0.9	140	0.0737	0.073751050
570-602	0.6	570-602-0.6	110	0.0579	0.057927128
570-602	0.9	570-602-0.9	130	0.0684	0.068474550
570-603	0.6	570-603-0.6	170	0.0895	0.089593497
570-610	0.6	570-610-0.6	1900	1.0000	1.570796327
570-610	0.9	570-610-0.9	380	0.2000	0.201357921
570-612	0.6	570-612-0.6	55	0.0289	0.028951413
570-612	0.9	570-612-0.9	4	0.0021	0.002105265
570-612	1.5	570-612-1.5	3	0.0016	0.001578948
570-613	0.6	570-613-0.6	83	0.0437	0.043698116
570-613	0.9	570-613-0.9	20	0.0105	0.010526510
570-614	0.6	570-614-0.6	260	0.1368	0.137272823
570-614	0.9	570-614-0.9	5.1	0.0027	0.002684214
570-614	1.5	570-614-1.5	5.6	0.0029	0.002947373
570-615	0.6	570-615-0.6	920	0.4842	0.505460637
570-615	0.9	570-615-0.9	9.4	0.0049	0.004947389
570-615	1.5	570-615-1.5	11	0.0058	0.005789506
570-616	0.6	570-616-0.6	630	0.3316	0.337976713
570-616	0.9	570-616-0.9	8.7	0.0046	0.004578963
570-617	0.6	570-617-0.6	34	0.0179	0.017895692
570-618	0.6	570-618-0.6	7	0.0037	0.003684219
570-618	0.9	570-618-0.9	6.5	0.0034	0.003421059
570-618	1.5	570-618-1.5	5.8	0.0031	0.003052636
570-619	0.6	570-619-0.6	6.1	0.0032	0.003210532

TABLE C-59
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 600s
0.6, 0.9 AND 1.5-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-619	0.9	570-619-0.9	7.8	0.0041	0.004105275
570-619	1.5	570-619-1.5	7.2	0.0038	0.003789483
570-621	0.9	570-621-0.9	11	0.0058	0.005789506

Total Lead	Max TTLC:	1900.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	28		28			
Sample Mean:	178		0.115			
Delta = RT - mean	172					
Appropriate Number of Samples:	9					
Standard Deviation of Sample:	398		0.307			
Standard Deviation of Mean:	75		0.058			
Sample Variance:	158241		0.095			
t-value for 90%:	1.314	Need to Transform Data	1.314			
Upper Confidence Limit for 90%:			0.191			
Reverse Transformation for 90%			361.34	mg/kg	26.22	mg/l
t-value for 95%:			1.70			
Upper Confidence Limit for 95%:			0.21			
Reverse Transformation for 95%			403.40	mg/kg	29.32	mg/l

TABLE C-60
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 600s
SURFACE, 0.3 AND 0.6-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-601	0	570-601-0	460	0.2421	0.244535081
570-601	0.3	570-601-0.3	44	0.0232	0.023159965
570-601	0.6	570-601-0.6	47	0.0247	0.024739366
570-602	0	570-602-0	570	0.3000	0.304692654
570-602	0.3	570-602-0.3	67	0.0353	0.035270470
570-602	0.6	570-602-0.6	110	0.0579	0.057927128
570-603	0	570-603-0	650	0.3421	0.349156435
570-603	0.3	570-603-0.3	140	0.0737	0.073751050
570-603	0.6	570-603-0.6	170	0.0895	0.089593497
570-610	0	570-610-0	72	0.0379	0.037903812
570-610	0.3	570-610-0.3	9.6	0.0051	0.005052653
570-610	0.6	570-610-0.6	1900	1.0000	1.570796327
570-611	0	570-611-0	200	0.1053	0.105458525
570-611	0.3	570-611-0.3	6.8	0.0036	0.003578955
570-612	0	570-612-0	5.2	0.0027	0.002736846
570-612	0.3	570-612-0.3	25	0.0132	0.013158274
570-612	0.6	570-612-0.6	55	0.0289	0.028951413
570-613	0	570-613-0	80	0.0421	0.042117714
570-613	0.3	570-613-0.3	7.9	0.0042	0.004157907
570-613	0.6	570-613-0.6	83	0.0437	0.043698116
570-614	0	570-614-0	260	0.1368	0.137272823
570-614	0.3	570-614-0.3	270	0.1421	0.142587939
570-614	0.6	570-614-0.6	260	0.1368	0.137272823
570-615	0	570-615-0	1100	0.5789	0.617437104
570-615	0.3	570-615-0.3	5.6	0.0029	0.002947373
570-615	0.6	570-615-0.6	920	0.4842	0.505460637
570-616	0	570-616-0	380	0.2000	0.201357921
570-616	0.3	570-616-0.3	99	0.0521	0.052128869
570-616	0.6	570-616-0.6	630	0.3316	0.337976713

TABLE C-60
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 600s
SURFACE, 0.3 AND 0.6-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-617	0	570-617-0	300	0.1579	0.158558281
570-617	0.3	570-617-0.3	260	0.1368	0.137272823
570-617	0.6	570-617-0.6	34	0.0179	0.017895692
570-618	0	570-618-0	150	0.0789	0.079029608
570-618	0.3	570-618-0.3	41	0.0216	0.021580622
570-618	0.6	570-618-0.6	7	0.0037	0.003684219
570-619	0	570-619-0	68	0.0358	0.035797118
570-619	0.3	570-619-0.3	15	0.0079	0.007894819
570-619	0.6	570-619-0.6	6.1	0.0032	0.003210532
570-620	0	570-620-0	74	0.0389	0.038957222
570-620	0.3	570-620-0.3	37	0.0195	0.019474915
570-621	0	570-621-0	69	0.0363	0.036323777
570-621	0.3	570-621-0.3	23	0.0121	0.012105559

Total Lead	Max TTLC:	1900.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	42		42			
Sample Mean:	231		0.137			
Delta = RT - mean	119					
Appropriate Number of Samples:	16					
Standard Deviation of Sample:	365		0.266			
Standard Deviation of Mean:	56		0.041			
Sample Variance:	133434		0.071			
t-value for 90%:	1.303	Need to Transform Data	1.303			
Upper Confidence Limit for 90%:			0.191			
Reverse Transformation for 90%			360.16	mg/kg	26.14	mg/l
t-value for 95%:			1.68			
Upper Confidence Limit for 95%:			0.21			
Reverse Transformation for 95%			389.23	mg/kg	28.28	mg/l

TABLE C-61
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 600s
0.9 AND 1.5-METER LAYER

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-601	0.9	570-601-0.9	140	0.3684	0.377310032
570-602	0.9	570-602-0.9	130	0.3421	0.349156435
570-610	0.9	570-610-0.9	380	1.0000	1.570796327
570-612	0.9	570-612-0.9	4	0.0105	0.010526510
570-612	1.5	570-612-1.5	3	0.0079	0.007894819
570-613	0.9	570-613-0.9	20	0.0526	0.052655908
570-614	0.9	570-614-0.9	5.1	0.0134	0.013421456
570-614	1.5	570-614-1.5	5.6	0.0147	0.014737376
570-615	0.9	570-615-0.9	9.4	0.0247	0.024739366
570-615	1.5	570-615-1.5	11	0.0289	0.028951413
570-616	0.9	570-616-0.9	8.7	0.0229	0.022896737
570-618	0.9	570-618-0.9	6.5	0.0171	0.017106097
570-618	1.5	570-618-1.5	5.8	0.0153	0.015263751
570-619	0.9	570-619-0.9	7.8	0.0205	0.020527757
570-619	1.5	570-619-1.5	7.2	0.0189	0.018948502
570-621	0.9	570-621-0.9	11	0.0289	0.028951413

Total Lead	Max TTLC:	380.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	16		16			
Sample Mean:	47		0.161			
Delta = RT - mean	303					
Appropriate Number of Samples:	0					
Standard Deviation of Sample:	99		0.394			
Standard Deviation of Mean:	25		0.098			
Sample Variance:	9756		0.155			
t-value for 90%:	1.341	Need to Transform Data	1.341			
Upper Confidence Limit for 90%:			0.293			
Reverse Transformation for 90%			109.70	mg/kg	7.70	mg/l
t-value for 95%:			1.75			
Upper Confidence Limit for 95%:			0.33			
Reverse Transformation for 95%			124.36	mg/kg	8.78	mg/l

TABLE C-62
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 600s
SURFACE, 0.3, 0.6, AND 0.9-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-601	0	570-601-0	460	0.2421	0.244535081
570-601	0.3	570-601-0.3	44	0.0232	0.023159965
570-601	0.6	570-601-0.6	47	0.0247	0.024739366
570-601	0.9	570-601-0.9	140	0.0737	0.073751050
570-602	0	570-602-0	570	0.3000	0.304692654
570-602	0.3	570-602-0.3	67	0.0353	0.035270470
570-602	0.6	570-602-0.6	110	0.0579	0.057927128
570-602	0.9	570-602-0.9	130	0.0684	0.068474550
570-603	0	570-603-0	650	0.3421	0.349156435
570-603	0.3	570-603-0.3	140	0.0737	0.073751050
570-603	0.6	570-603-0.6	170	0.0895	0.089593497
570-610	0	570-610-0	72	0.0379	0.037903812
570-610	0.3	570-610-0.3	9.6	0.0051	0.005052653
570-610	0.6	570-610-0.6	1900	1.0000	1.570796327
570-610	0.9	570-610-0.9	380	0.2000	0.201357921
570-611	0	570-611-0	200	0.1053	0.105458525
570-611	0.3	570-611-0.3	6.8	0.0036	0.003578955
570-612	0	570-612-0	5.2	0.0027	0.002736846
570-612	0.3	570-612-0.3	25	0.0132	0.013158274
570-612	0.6	570-612-0.6	55	0.0289	0.028951413
570-612	0.9	570-612-0.9	4	0.0021	0.002105265
570-613	0	570-613-0	80	0.0421	0.042117714
570-613	0.3	570-613-0.3	7.9	0.0042	0.004157907
570-613	0.6	570-613-0.6	83	0.0437	0.043698116
570-613	0.9	570-613-0.9	20	0.0105	0.010526510
570-614	0	570-614-0	260	0.1368	0.137272823
570-614	0.3	570-614-0.3	270	0.1421	0.142587939
570-614	0.6	570-614-0.6	260	0.1368	0.137272823
570-614	0.9	570-614-0.9	5.1	0.0027	0.002684214
570-615	0	570-615-0	1100	0.5789	0.617437104
570-615	0.3	570-615-0.3	5.6	0.0029	0.002947373
570-615	0.6	570-615-0.6	920	0.4842	0.505460637
570-615	0.9	570-615-0.9	9.4	0.0049	0.004947389
570-616	0	570-616-0	380	0.2000	0.201357921

TABLE C-62
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 600s
SURFACE, 0.3, 0.6, AND 0.9-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-616	0.3	570-616-0.3	99	0.0521	0.052128869
570-616	0.6	570-616-0.6	630	0.3316	0.337976713
570-616	0.9	570-616-0.9	8.7	0.0046	0.004578963
570-617	0	570-617-0	300	0.1579	0.158558281
570-617	0.3	570-617-0.3	260	0.1368	0.137272823
570-617	0.6	570-617-0.6	34	0.0179	0.017895692
570-618	0	570-618-0	150	0.0789	0.079029608
570-618	0.3	570-618-0.3	41	0.0216	0.021580622
570-618	0.6	570-618-0.6	7	0.0037	0.003684219
570-618	0.9	570-618-0.9	6.5	0.0034	0.003421059
570-619	0	570-619-0	68	0.0358	0.035797118
570-619	0.3	570-619-0.3	15	0.0079	0.007894819
570-619	0.6	570-619-0.6	6.1	0.0032	0.003210532
570-619	0.9	570-619-0.9	7.8	0.0041	0.004105275
570-620	0	570-620-0	74	0.0389	0.038957222
570-620	0.3	570-620-0.3	37	0.0195	0.019474915
570-621	0	570-621-0	69	0.0363	0.036323777
570-621	0.3	570-621-0.3	23	0.0121	0.012105559
570-621	0.9	570-621-0.9	11	0.0058	0.005789506

Total Lead	Max TTLC:	1900.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	53		53			
Sample Mean:	197		0.116			
Delta = RT - mean	153					
Appropriate Number of Samples:	8					
Standard Deviation of Sample:	335		0.241			
Standard Deviation of Mean:	46		0.033			
Sample Variance:	112384		0.058			
t-value for 90%:	1.299	Need to Transform Data	1.299			
Upper Confidence Limit for 90%:			0.159			
Reverse Transformation for 90%			300.89	mg/kg	21.77	mg/l
t-value for 95%:			1.68			
Upper Confidence Limit for 95%:			0.17			
Reverse Transformation for 95%			324.32	mg/kg	23.50	mg/l

TABLE C-63
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 600s
1.5-METER LAYER

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-612	1.5	570-612-1.5	3	0.2727	0.276226631
570-614	1.5	570-614-1.5	5.6	0.5091	0.534128253
570-615	1.5	570-615-1.5	11	1.0000	1.570796327
570-618	1.5	570-618-1.5	5.8	0.5273	0.555387653
570-619	1.5	570-619-1.5	7.2	0.6545	0.713581231

Total Lead	Max TTLC:	11.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	5		5			
Sample Mean:	7		0.730			
Delta = RT - mean	343					
Appropriate Number of Samples:	0					
Standard Deviation of Sample:	3		0.495			
Standard Deviation of Mean:	1		0.222			
Sample Variance:	9		0.245			
t-value for 90%:	1.533	Need to Transform Data	1.533			
Upper Confidence Limit for 90%:			1.070			
Reverse Transformation for 90%			9.65	mg/kg	0.34	mg/l
t-value for 95%:			2.13			
Upper Confidence Limit for 95%:			1.20			
Reverse Transformation for 95%			10.26	mg/kg	0.38	mg/l

TABLE C-64
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 800s
COMBINED LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-801	0	570-801-0	44	0.0314	0.031433748
570-801	0.3	570-801-0.3	13	0.0093	0.009285848
570-801	0.6	570-801-0.6	14	0.0100	0.010000167
570-801	0.9	570-801-0.9	36	0.0257	0.025717120
570-801	1.5	570-801-1.5	9.9	0.0071	0.007071488
570-802	0	570-802-0	63	0.0450	0.045015201
570-802	0.3	570-802-0.3	22	0.0157	0.015714933
570-802	0.6	570-802-0.6	39	0.0279	0.027860747
570-802	0.9	570-802-0.9	33	0.0236	0.023573612
570-803	0	570-803-0	140	0.1000	0.100167421
570-803	0.3	570-803-0.3	340	0.2429	0.245310090
570-803	0.6	570-803-0.6	260	0.1857	0.186798744
570-803	0.9	570-803-0.9	3	0.0021	0.002142859
570-803	1.5	570-803-1.5	3	0.0021	0.002142859
570-804	0	570-804-0	1000	0.7143	0.795602953
570-804	0.3	570-804-0.3	36	0.0257	0.025717120
570-804	0.6	570-804-0.6	720	0.5143	0.540174570
570-804	0.9	570-804-0.9	8.8	0.0063	0.006285756
570-804	1.5	570-804-1.5	11	0.0079	0.007857224
570-805	0	570-805-0	24	0.0171	0.017143697
570-805	0.3	570-805-0.3	150	0.1071	0.107348916
570-805	0.6	570-805-0.6	54	0.0386	0.038580999
570-805	0.9	570-805-0.9	210	0.1500	0.150568273
570-807	0	570-807-0	83	0.0593	0.059320499
570-807	0.3	570-807-0.3	9.2	0.0066	0.006571476
570-807	0.6	570-807-0.6	22	0.0157	0.015714933
570-807	0.9	570-807-0.9	280	0.2000	0.201357921
570-808	0	570-808-0	83	0.0593	0.059320499
570-808	0.3	570-808-0.3	52	0.0371	0.037151403
570-808	0.6	570-808-0.6	1400	1.0000	1.570796327
570-808	0.9	570-808-0.9	35	0.0250	0.025002605
570-809	0	570-809-0	7.9	0.0056	0.005642887
570-809	0.3	570-809-0.3	29	0.0207	0.020715767
570-809	0.6	570-809-0.6	75	0.0536	0.053597086
570-809	0.9	570-809-0.9	19	0.0136	0.013571845
570-810	0	570-810-0	190	0.1357	0.136134383

TABLE C-64
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 800s
COMBINED LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-810	0.3	570-810-0.3	78	0.0557	0.055743150
570-810	0.6	570-810-0.6	44	0.0314	0.031433748
570-810	0.9	570-810-0.9	8.4	0.0060	0.006000036
570-810	1.5	570-810-1.5	5.5	0.0039	0.003928582
570-811	0	570-811-0	560	0.4000	0.411516846
570-811	0.3	570-811-0.3	290	0.2071	0.208653566
570-811	0.6	570-811-0.6	670	0.4786	0.499027005
570-811	0.9	570-811-0.9	40	0.0286	0.028575317
570-811	1.5	570-811-1.5	150	0.1071	0.107348916
570-812	0	570-812-0	17	0.0121	0.012143156
570-812	0.3	570-812-0.3	1000	0.7143	0.795602953
570-812	0.6	570-812-0.6	8.8	0.0063	0.006285756
570-812	0.9	570-812-0.9	14	0.0100	0.010000167
570-812	1.5	570-812-1.5	14	0.0100	0.010000167
570-813	0	570-813-0	48	0.0343	0.034292435
570-813	0.3	570-813-0.3	6.1	0.0044	0.004357157
570-813	0.6	570-813-0.6	130	0.0929	0.092991106
570-813	0.9	570-813-0.9	26	0.0186	0.018572496

Samples 570-811-0 and 570-811-1.5 removed from regression analysis

Total Lead	Max TTLC:	1400.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	54		54			
Sample Mean:	160		0.129			
Delta = RT - mean	190					
Appropriate Number of Samples:	4					
Standard Deviation of Sample:	289		0.269			
Standard Deviation of Mean:	39		0.037			
Sample Variance:	83471		0.072			
t-value for 90%:	1.298	Need to Transform Data	1.298			
Upper Confidence Limit for 90%:			0.176			
Reverse Transformation for 90%			245.79	mg/kg	17.72	mg/l
t-value for 95%:			1.68			
Upper Confidence Limit for 95%:			0.19			
Reverse Transformation for 95%			264.79	mg/kg	19.12	mg/l

TABLE C-65
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 800s
SURFACE LAYER

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-801	0	570-801-0	44	0.0440	0.044014210
570-802	0	570-802-0	63	0.0630	0.063041749
570-803	0	570-803-0	140	0.1400	0.140461415
570-804	0	570-804-0	1000	1.0000	1.570796327
570-805	0	570-805-0	24	0.0240	0.024002305
570-807	0	570-807-0	83	0.0830	0.083095594
570-808	0	570-808-0	83	0.0830	0.083095594
570-809	0	570-809-0	7.9	0.0079	0.007900082
570-810	0	570-810-0	190	0.1900	0.191162147
570-811	0	570-811-0	560	0.5600	0.594385800
570-812	0	570-812-0	17	0.0170	0.017000819
570-813	0	570-813-0	48	0.0480	0.048018451

Samples 570-811-0 and 570-811-1.5 removed from regression analysis

Total Lead	Max TTLC:	1000.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	12		12			
Sample Mean:	188		0.239			
Delta = RT - mean	162					
Appropriate Number of Samples:	6					
Standard Deviation of Sample:	296		0.449			
Standard Deviation of Mean:	86		0.130			
Sample Variance:	87874		0.201			
t-value for 90%:	1.363	Need to Transform Data	1.363			
Upper Confidence Limit for 90%:			0.415			
Reverse Transformation for 90%			403.62	mg/kg	29.34	mg/l
t-value for 95%:			1.80			
Upper Confidence Limit for 95%:			0.47			
Reverse Transformation for 95%			454.28	mg/kg	33.06	mg/l

TABLE C-66
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 800s
0.3, 0.6, 0.9, AND 1.5-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-801	0.3	570-801-0.3	13	0.0093	0.009285848
570-801	0.6	570-801-0.6	14	0.0100	0.010000167
570-801	0.9	570-801-0.9	36	0.0257	0.025717120
570-801	1.5	570-801-1.5	9.9	0.0071	0.007071488
570-802	0.3	570-802-0.3	22	0.0157	0.015714933
570-802	0.6	570-802-0.6	39	0.0279	0.027860747
570-802	0.9	570-802-0.9	33	0.0236	0.023573612
570-803	0.3	570-803-0.3	340	0.2429	0.245310090
570-803	0.6	570-803-0.6	260	0.1857	0.186798744
570-803	0.9	570-803-0.9	3	0.0021	0.002142859
570-803	1.5	570-803-1.5	3	0.0021	0.002142859
570-804	0.3	570-804-0.3	36	0.0257	0.025717120
570-804	0.6	570-804-0.6	720	0.5143	0.540174570
570-804	0.9	570-804-0.9	8.8	0.0063	0.006285756
570-804	1.5	570-804-1.5	11	0.0079	0.007857224
570-805	0.3	570-805-0.3	150	0.1071	0.107348916
570-805	0.6	570-805-0.6	54	0.0386	0.038580999
570-805	0.9	570-805-0.9	210	0.1500	0.150568273
570-807	0.3	570-807-0.3	9.2	0.0066	0.006571476
570-807	0.6	570-807-0.6	22	0.0157	0.015714933
570-807	0.9	570-807-0.9	280	0.2000	0.201357921
570-808	0.3	570-808-0.3	52	0.0371	0.037151403
570-808	0.6	570-808-0.6	1400	1.0000	1.570796327
570-808	0.9	570-808-0.9	35	0.0250	0.025002605
570-809	0.3	570-809-0.3	29	0.0207	0.020715767
570-809	0.6	570-809-0.6	75	0.0536	0.053597086
570-809	0.9	570-809-0.9	19	0.0136	0.013571845
570-810	0.3	570-810-0.3	78	0.0557	0.055743150
570-810	0.6	570-810-0.6	44	0.0314	0.031433748
570-810	0.9	570-810-0.9	8.4	0.0060	0.006000036

TABLE C-66
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 800s
0.3, 0.6, 0.9, AND 1.5-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-810	1.5	570-810-1.5	5.5	0.0039	0.003928582
570-811	0.3	570-811-0.3	290	0.2071	0.208653566
570-811	0.6	570-811-0.6	670	0.4786	0.499027005
570-811	0.9	570-811-0.9	40	0.0286	0.028575317
570-811	1.5	570-811-1.5	150	0.1071	0.107348916
570-812	0.3	570-812-0.3	1000	0.7143	0.795602953
570-812	0.6	570-812-0.6	8.8	0.0063	0.006285756
570-812	0.9	570-812-0.9	14	0.0100	0.010000167
570-812	1.5	570-812-1.5	14	0.0100	0.010000167
570-813	0.3	570-813-0.3	6.1	0.0044	0.004357157
570-813	0.6	570-813-0.6	130	0.0929	0.092991106
570-813	0.9	570-813-0.9	26	0.0186	0.018572496

Samples 570-811-0 and 570-811-1.5 removed from regression analysis

Total Lead	Max TTLC:	1400.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	42		42			
Sample Mean:	152		0.125			
Delta = RT - mean	198					
Appropriate Number of Samples:	4					
Standard Deviation of Sample:	290		0.281			
Standard Deviation of Mean:	45		0.043			
Sample Variance:	84019		0.079			
t-value for 90%:	1.303	Need to Transform Data	1.303			
Upper Confidence Limit for 90%:			0.182			
Reverse Transformation for 90%			252.80	mg/kg	18.24	mg/l
t-value for 95%:			1.68			
Upper Confidence Limit for 95%:			0.20			
Reverse Transformation for 95%			275.48	mg/kg	19.90	mg/l

TABLE C-67
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 800s
SURFACE AND 0.3-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-801	0	570-801-0	44	0.0440	0.044014210
570-801	0.3	570-801-0.3	13	0.0130	0.013000366
570-802	0	570-802-0	63	0.0630	0.063041749
570-802	0.3	570-802-0.3	22	0.0220	0.022001775
570-803	0	570-803-0	140	0.1400	0.140461415
570-803	0.3	570-803-0.3	340	0.3400	0.346916898
570-804	0	570-804-0	1000	1.0000	1.570796327
570-804	0.3	570-804-0.3	36	0.0360	0.036007781
570-805	0	570-805-0	24	0.0240	0.024002305
570-805	0.3	570-805-0.3	150	0.1500	0.150568273
570-807	0	570-807-0	83	0.0830	0.083095594
570-807	0.3	570-807-0.3	9.2	0.0092	0.009200130
570-808	0	570-808-0	83	0.0830	0.083095594
570-808	0.3	570-808-0.3	52	0.0520	0.052023463
570-809	0	570-809-0	7.9	0.0079	0.007900082
570-809	0.3	570-809-0.3	29	0.0290	0.029004066
570-810	0	570-810-0	190	0.1900	0.191162147
570-810	0.3	570-810-0.3	78	0.0780	0.078079309
570-811	0	570-811-0	560	0.5600	0.594385800
570-811	0.3	570-811-0.3	290	0.2900	0.294226838
570-812	0	570-812-0	17	0.0170	0.017000819

TABLE C-67
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 800s
SURFACE AND 0.3-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-812	0.3	570-812-0.3	1000	1.0000	1.570796327
570-813	0	570-813-0	48	0.0480	0.048018451
570-813	0.3	570-813-0.3	6.1	0.0061	0.006100038

Samples 570-811-0 and 570-811-1.5 removed from regression analysis

Total Lead	Max TTLC:	1000.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	24		24			
Sample Mean:	179		0.228			
Delta = RT - mean	171					
Appropriate Number of Samples:	5					
Standard Deviation of Sample:	284		0.435			
Standard Deviation of Mean:	58		0.089			
Sample Variance:	80913		0.190			
t-value for 90%:	1.319	Need to Transform Data	1.319			
Upper Confidence Limit for 90%:			0.345			
Reverse Transformation for 90%			338.52	mg/kg	24.54	mg/l
t-value for 95%:			1.71			
Upper Confidence Limit for 95%:			0.38			
Reverse Transformation for 95%			371.33	mg/kg	26.96	mg/l

TABLE C-68
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 800s
0.6, 0.9 AND 1.5-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-801	0.6	570-801-0.6	14	0.0100	0.010000167
570-801	0.9	570-801-0.9	36	0.0257	0.025717120
570-801	1.5	570-801-1.5	9.9	0.0071	0.007071488
570-802	0.6	570-802-0.6	39	0.0279	0.027860747
570-802	0.9	570-802-0.9	33	0.0236	0.023573612
570-803	0.6	570-803-0.6	260	0.1857	0.186798744
570-803	0.9	570-803-0.9	3	0.0021	0.002142859
570-803	1.5	570-803-1.5	3	0.0021	0.002142859
570-804	0.6	570-804-0.6	720	0.5143	0.540174570
570-804	0.9	570-804-0.9	8.8	0.0063	0.006285756
570-804	1.5	570-804-1.5	11	0.0079	0.007857224
570-805	0.6	570-805-0.6	54	0.0386	0.038580999
570-805	0.9	570-805-0.9	210	0.1500	0.150568273
570-807	0.6	570-807-0.6	22	0.0157	0.015714933
570-807	0.9	570-807-0.9	280	0.2000	0.201357921
570-808	0.6	570-808-0.6	1400	1.0000	1.570796327
570-808	0.9	570-808-0.9	35	0.0250	0.025002605
570-809	0.6	570-809-0.6	75	0.0536	0.053597086
570-809	0.9	570-809-0.9	19	0.0136	0.013571845
570-810	0.6	570-810-0.6	44	0.0314	0.031433748
570-810	0.9	570-810-0.9	8.4	0.0060	0.006000036
570-810	1.5	570-810-1.5	5.5	0.0039	0.003928582
570-811	0.6	570-811-0.6	670	0.4786	0.499027005
570-811	0.9	570-811-0.9	40	0.0286	0.028575317
570-811	1.5	570-811-1.5	150	0.1071	0.107348916
570-812	0.6	570-812-0.6	8.8	0.0063	0.006285756

TABLE C-68
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 800s
0.6, 0.9 AND 1.5-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-812	0.9	570-812-0.9	14	0.0100	0.010000167
570-812	1.5	570-812-1.5	14	0.0100	0.010000167
570-813	0.6	570-813-0.6	130	0.0929	0.092991106
570-813	0.9	570-813-0.9	26	0.0186	0.018572496

Samples 570-811-0 and 570-811-1.5 removed from regression analysis

Total Lead	Max TTLC:	1400.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	30		30			
Sample Mean:	145		0.124			
Delta = RT - mean	205					
Appropriate Number of Samples:	4					
Standard Deviation of Sample:	296		0.304			
Standard Deviation of Mean:	54		0.055			
Sample Variance:	87854		0.092			
t-value for 90%:	1.311	Need to Transform Data	1.311			
Upper Confidence Limit for 90%:			0.197			
Reverse Transformation for 90%			273.73	mg/kg	19.78	mg/l
t-value for 95%:			1.70			
Upper Confidence Limit for 95%:			0.22			
Reverse Transformation for 95%			303.20	mg/kg	21.94	mg/l

TABLE C-69
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 800s
SURFACE, 0.3 AND 0.6-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-801	0	570-801-0	44	0.0314	0.031433748
570-801	0.3	570-801-0.3	13	0.0093	0.009285848
570-801	0.6	570-801-0.6	14	0.0100	0.010000167
570-802	0	570-802-0	63	0.0450	0.045015201
570-802	0.3	570-802-0.3	22	0.0157	0.015714933
570-802	0.6	570-802-0.6	39	0.0279	0.027860747
570-803	0	570-803-0	140	0.1000	0.100167421
570-803	0.3	570-803-0.3	340	0.2429	0.245310090
570-803	0.6	570-803-0.6	260	0.1857	0.186798744
570-804	0	570-804-0	1000	1.0000	1.570796327
570-804	0.3	570-804-0.3	36	0.0257	0.025717120
570-804	0.6	570-804-0.6	720	0.5143	0.540174570
570-805	0	570-805-0	24	0.0171	0.017143697
570-805	0.3	570-805-0.3	150	0.1071	0.107348916
570-805	0.6	570-805-0.6	54	0.0386	0.038580999
570-807	0	570-807-0	83	0.0593	0.059320499
570-807	0.3	570-807-0.3	9.2	0.0066	0.006571476
570-807	0.6	570-807-0.6	22	0.0157	0.015714933
570-808	0	570-808-0	83	0.0593	0.059320499
570-808	0.3	570-808-0.3	52	0.0371	0.037151403
570-808	0.6	570-808-0.6	1400	1.0000	1.570796327
570-809	0	570-809-0	7.9	0.0056	0.005642887
570-809	0.3	570-809-0.3	29	0.0207	0.020715767
570-809	0.6	570-809-0.6	75	0.0536	0.053597086
570-810	0	570-810-0	190	0.1357	0.136134383
570-810	0.3	570-810-0.3	78	0.0557	0.055743150
570-810	0.6	570-810-0.6	44	0.0314	0.031433748
570-811	0	570-811-0	560	0.5600	0.594385800

TABLE C-69
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 800s
SURFACE, 0.3 AND 0.6-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-811	0.3	570-811-0.3	290	0.2071	0.208653566
570-811	0.6	570-811-0.6	670	0.4786	0.499027005
570-812	0	570-812-0	17	0.0121	0.012143156
570-812	0.3	570-812-0.3	1000	0.7143	0.795602953
570-812	0.6	570-812-0.6	8.8	0.0063	0.006285756
570-813	0	570-813-0	48	0.0343	0.034292435
570-813	0.3	570-813-0.3	6.1	0.0044	0.004357157
570-813	0.6	570-813-0.6	130	0.0929	0.092991106

Samples 570-811-0 and 570-811-1.5 removed from regression analysis

Total Lead	Max TTLC:	1400.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	36		36			
Sample Mean:	215		0.202			
Delta = RT - mean	136					
Appropriate Number of Samples:	11					
Standard Deviation of Sample:	338		0.386			
Standard Deviation of Mean:	56		0.064			
Sample Variance:	114123		0.149			
t-value for 90%:	1.307	Need to Transform Data	1.307			
Upper Confidence Limit for 90%:			0.286			
Reverse Transformation for 90%			394.90	mg/kg	28.69	mg/l
t-value for 95%:			1.69			
Upper Confidence Limit for 95%:			0.31			
Reverse Transformation for 95%			427.92	mg/kg	31.12	mg/l

TABLE C-70
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 800s
0.9 AND 1.5-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-801	0.9	570-801-0.9	36	0.1286	0.128928317
570-801	1.5	570-801-1.5	9.9	0.0354	0.035364514
570-802	0.9	570-802-0.9	33	0.1179	0.118131708
570-803	0.9	570-803-0.9	3	0.0107	0.010714491
570-803	1.5	570-803-1.5	3	0.0107	0.010714491
570-804	0.9	570-804-0.9	8.8	0.0314	0.031433748
570-804	1.5	570-804-1.5	11	0.0393	0.039295827
570-805	0.9	570-805-0.9	210	0.7500	0.848062079
570-807	0.9	570-807-0.9	280	1.0000	1.570796327
570-808	0.9	570-808-0.9	35	0.1250	0.125327831
570-809	0.9	570-809-0.9	19	0.0679	0.067909327
570-810	0.9	570-810-0.9	8.4	0.0300	0.030004502
570-810	1.5	570-810-1.5	5.5	0.0196	0.019644121
570-811	0.9	570-811-0.9	40	0.1429	0.143347569
570-811	1.5	570-811-1.5	150	0.5357	0.565353430
570-812	0.9	570-812-0.9	14	0.0500	0.050020857
570-812	1.5	570-812-1.5	14	0.0500	0.050020857
570-813	0.9	570-813-0.9	26	0.0929	0.092991106

Samples 570-811-0 and 570-811-1.5 removed from regression analysis

Total Lead	Max TTLC:	280.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	18		18			
Sample Mean:	50		0.219			
Delta = RT - mean	300					
Appropriate Number of Samples:	0					
Standard Deviation of Sample:	79		0.401			
Standard Deviation of Mean:	19		0.095			
Sample Variance:	6258		0.161			
t-value for 90%:	1.333	Need to Transform Data	1.333			
Upper Confidence Limit for 90%:			0.345			
Reverse Transformation for 90%			94.64	mg/kg	6.59	mg/l
t-value for 95%:			1.74			
Upper Confidence Limit for 95%:			0.38			
Reverse Transformation for 95%			104.71	mg/kg	7.34	mg/l

TABLE C-71
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 800s
SURFACE, 0.3, 0.6, AND 0.9-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-801	0	570-801-0	44	0.0314	0.031433748
570-801	0.3	570-801-0.3	13	0.0093	0.009285848
570-801	0.6	570-801-0.6	14	0.0100	0.010000167
570-801	0.9	570-801-0.9	36	0.0257	0.025717120
570-802	0	570-802-0	63	0.0450	0.045015201
570-802	0.3	570-802-0.3	22	0.0157	0.015714933
570-802	0.6	570-802-0.6	39	0.0279	0.027860747
570-802	0.9	570-802-0.9	33	0.0236	0.023573612
570-803	0	570-803-0	140	0.1000	0.100167421
570-803	0.3	570-803-0.3	340	0.2429	0.245310090
570-803	0.6	570-803-0.6	260	0.1857	0.186798744
570-803	0.9	570-803-0.9	3	0.0021	0.002142859
570-804	0	570-804-0	1000	0.7143	0.795602953
570-804	0.3	570-804-0.3	36	0.0257	0.025717120
570-804	0.6	570-804-0.6	720	0.5143	0.540174570
570-804	0.9	570-804-0.9	8.8	0.0063	0.006285756
570-805	0	570-805-0	24	0.0171	0.017143697
570-805	0.3	570-805-0.3	150	0.1071	0.107348916
570-805	0.6	570-805-0.6	54	0.0386	0.038580999
570-805	0.9	570-805-0.9	210	0.1500	0.150568273
570-807	0	570-807-0	83	0.0593	0.059320499
570-807	0.3	570-807-0.3	9.2	0.0066	0.006571476
570-807	0.6	570-807-0.6	22	0.0157	0.015714933
570-807	0.9	570-807-0.9	280	0.2000	0.201357921
570-808	0	570-808-0	83	0.0593	0.059320499
570-808	0.3	570-808-0.3	52	0.0371	0.037151403
570-808	0.6	570-808-0.6	1400	1.0000	1.570796327
570-808	0.9	570-808-0.9	35	0.0250	0.025002605
570-809	0	570-809-0	7.9	0.0056	0.005642887
570-809	0.3	570-809-0.3	29	0.0207	0.020715767
570-809	0.6	570-809-0.6	75	0.0536	0.053597086
570-809	0.9	570-809-0.9	19	0.0136	0.013571845

TABLE C-71
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 800s
SURFACE, 0.3, 0.6, AND 0.9-METER LAYERS

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-810	0	570-810-0	190	0.1357	0.136134383
570-810	0.3	570-810-0.3	78	0.0557	0.055743150
570-810	0.6	570-810-0.6	44	0.0314	0.031433748
570-810	0.9	570-810-0.9	8.4	0.0060	0.006000036
570-811	0	570-811-0	560	0.4000	0.411516846
570-811	0.3	570-811-0.3	290	0.2071	0.208653566
570-811	0.6	570-811-0.6	670	0.4786	0.499027005
570-811	0.9	570-811-0.9	40	0.0286	0.028575317
570-812	0	570-812-0	17	0.0121	0.012143156
570-812	0.3	570-812-0.3	1000	0.7143	0.795602953
570-812	0.6	570-812-0.6	8.8	0.0063	0.006285756
570-812	0.9	570-812-0.9	14	0.0100	0.010000167
570-813	0	570-813-0	48	0.0343	0.034292435
570-813	0.3	570-813-0.3	6.1	0.0044	0.004357157
570-813	0.6	570-813-0.6	130	0.0929	0.092991106
570-813	0.9	570-813-0.9	26	0.0186	0.018572496

Samples 570-811-0 and 570-811-1.5 removed from regression analysis

Total Lead	Max TTLC:	1400.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	48		48			
Sample Mean:	176		0.142			
Delta = RT - mean	174					
Appropriate Number of Samples:	5					
Standard Deviation of Sample:	302		0.283			
Standard Deviation of Mean:	44		0.041			
Sample Variance:	91435		0.080			
t-value for 90%:	1.301	Need to Transform Data	1.301			
Upper Confidence Limit for 90%:			0.195			
Reverse Transformation for 90%			271.56	mg/kg	19.62	mg/l
t-value for 95%:			1.68			
Upper Confidence Limit for 95%:			0.21			
Reverse Transformation for 95%			292.75	mg/kg	21.18	mg/l

TABLE C-72
LEAD ANALYSES - SEGMENT 2 - EASTBOUND 800s
1.5-METER LAYER

Contractor Borehole ID	Depth (meters bgs)	Sample ID	Total Lead (mg/kg)	Total Lead % of Maximum	Transformed Data Arcsine
570-801	1.5	570-801-1.5	9.9	0.0660	0.066048010
570-803	1.5	570-803-1.5	3	0.0200	0.020001334
570-804	1.5	570-804-1.5	11	0.0733	0.073399221
570-810	1.5	570-810-1.5	5.5	0.0367	0.036674888
570-811	1.5	570-811-1.5	150	1.0000	1.570796327
570-812	1.5	570-812-1.5	14	0.0933	0.093469373

Samples 570-811-0 and 570-811-1.5 removed from regression analysis

Total Lead	Max TTLC:	150.0	**Transformed Data**		**Soluble Data**	
Number of Samples:	6		6			
Sample Mean:	32		0.310			
Delta = RT - mean	318					
Appropriate Number of Samples:	0					
Standard Deviation of Sample:	58		0.618			
Standard Deviation of Mean:	24		0.252			
Sample Variance:	3344		0.382			
t-value for 90%:	1.476	Need to Transform Data	1.476			
Upper Confidence Limit for 90%:			0.683			
Reverse Transformation for 90%			94.62	mg/kg	6.59	mg/l
t-value for 95%:			2.02			
Upper Confidence Limit for 95%:			0.82			
Reverse Transformation for 95%			109.53	mg/kg	7.69	mg/l

APPENDIX D

NORMAL DISTRIBUTION HISTOGRAMS

FIGURE D-1
NORMAL DISTRIBUTION HISTOGRAM
Segment 2 Westbound 100s

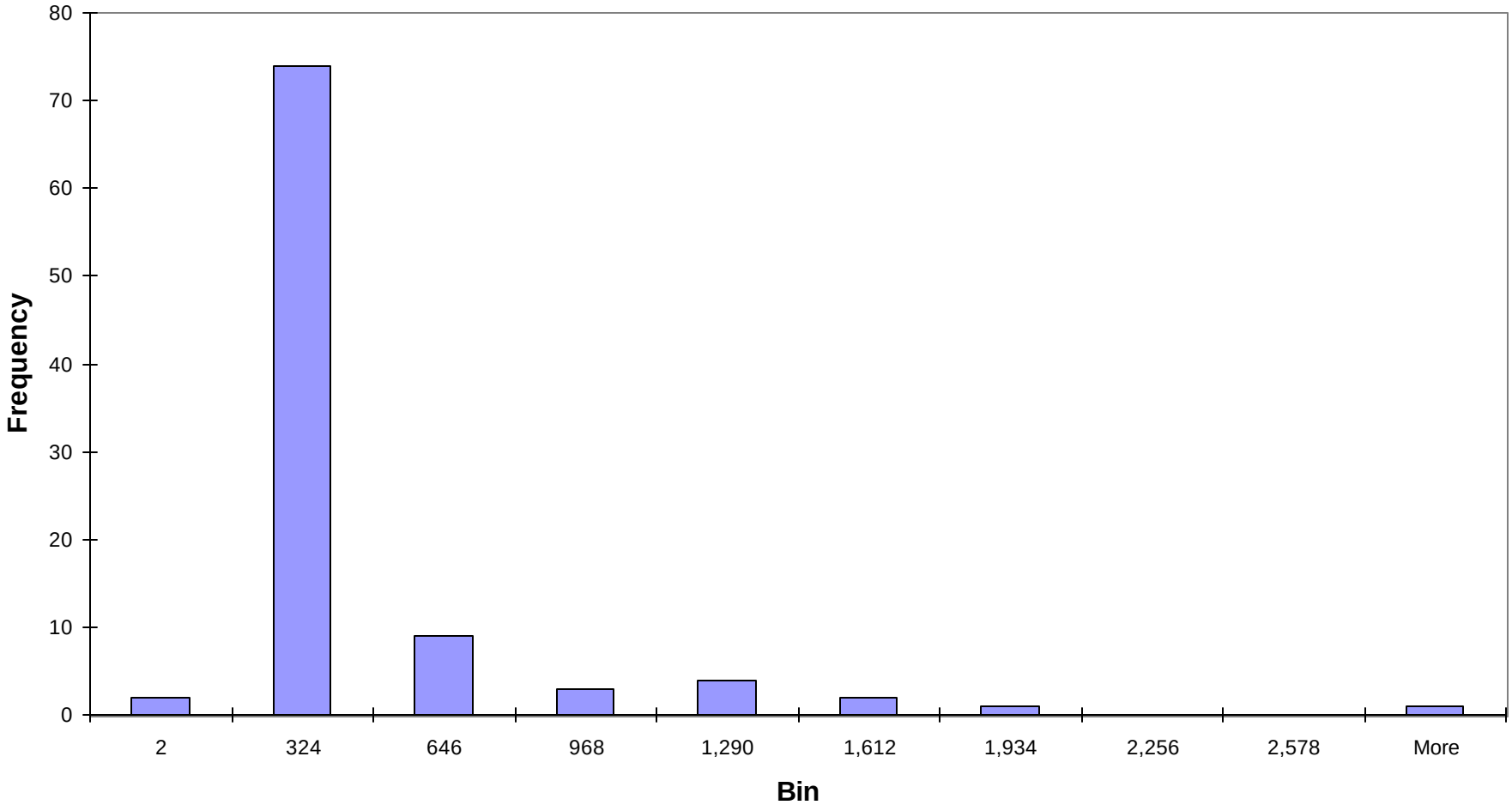


FIGURE D-2
NORMAL DISTRIBUTION HISTOGRAM
Segment 2 Westbound 300s

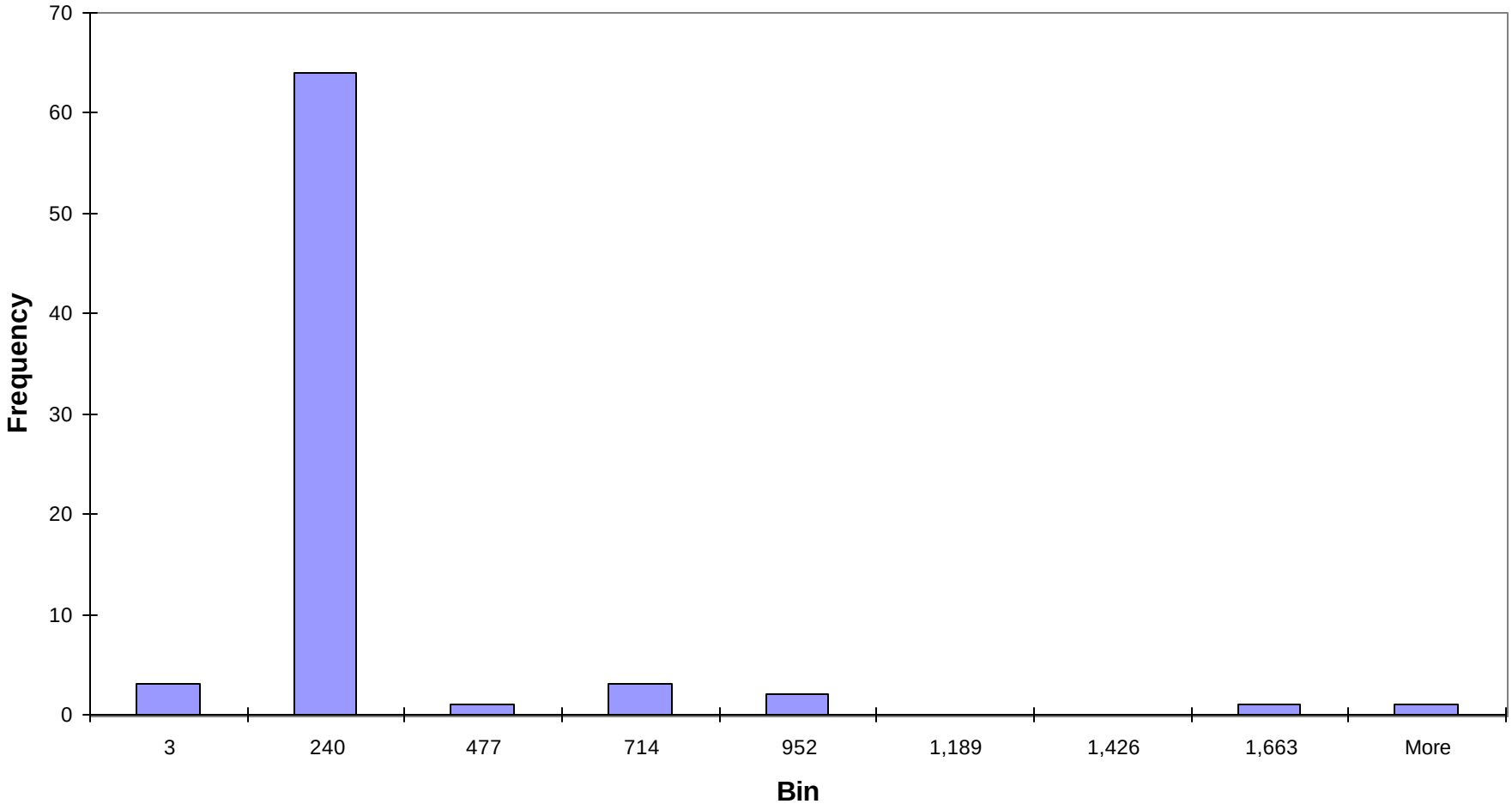


FIGURE D-3
NORMAL DISTRIBUTION HISTOGRAM
Segment 2 Westbound 500s

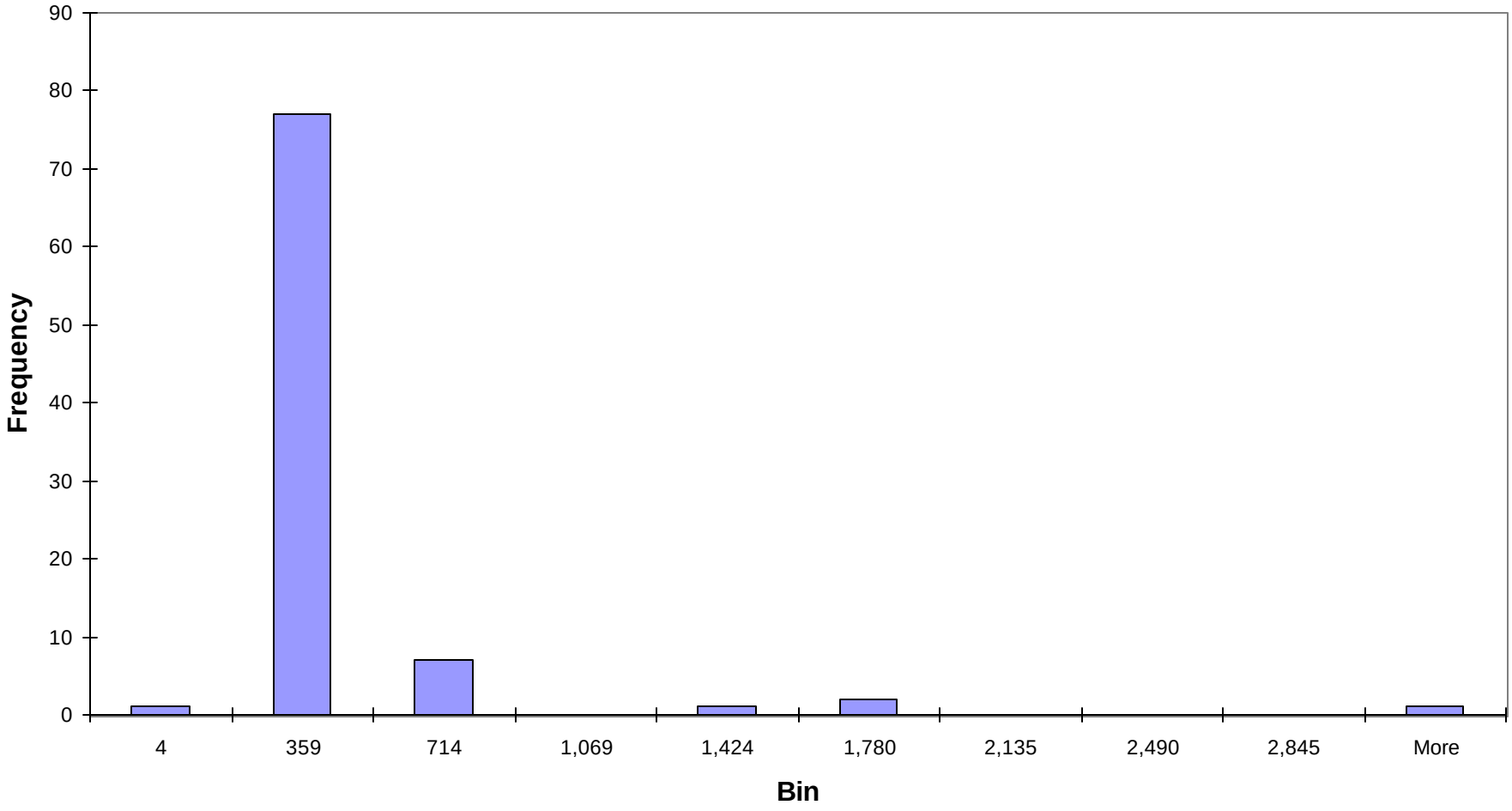


FIGURE D-4
NORMAL DISTRIBUTION HISTOGRAM
Segment 2 Westbound 700s

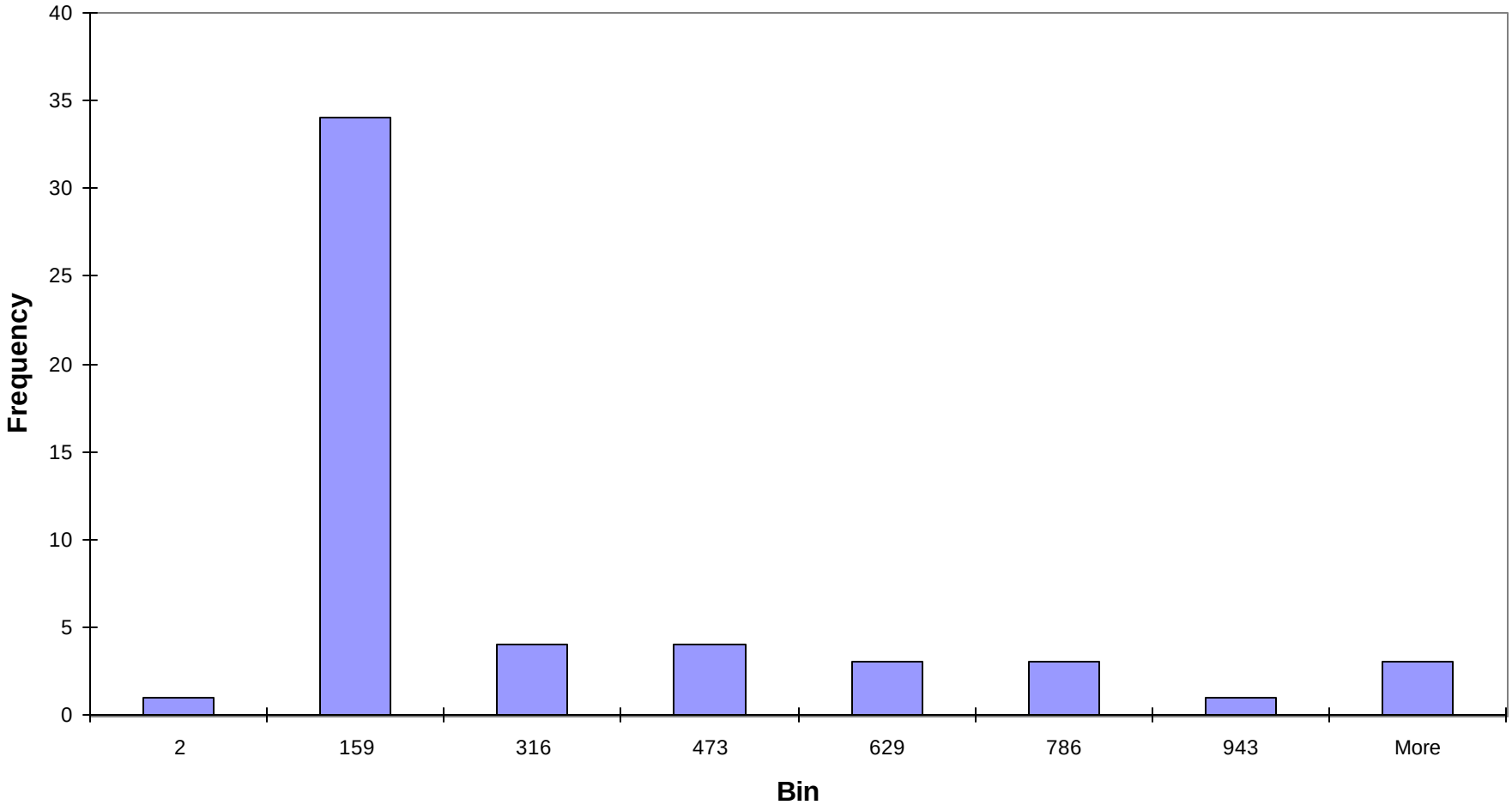


FIGURE D-5
NORMAL DISTRIBUTION HISTOGRAM
Segment 2 Eastbound 200s

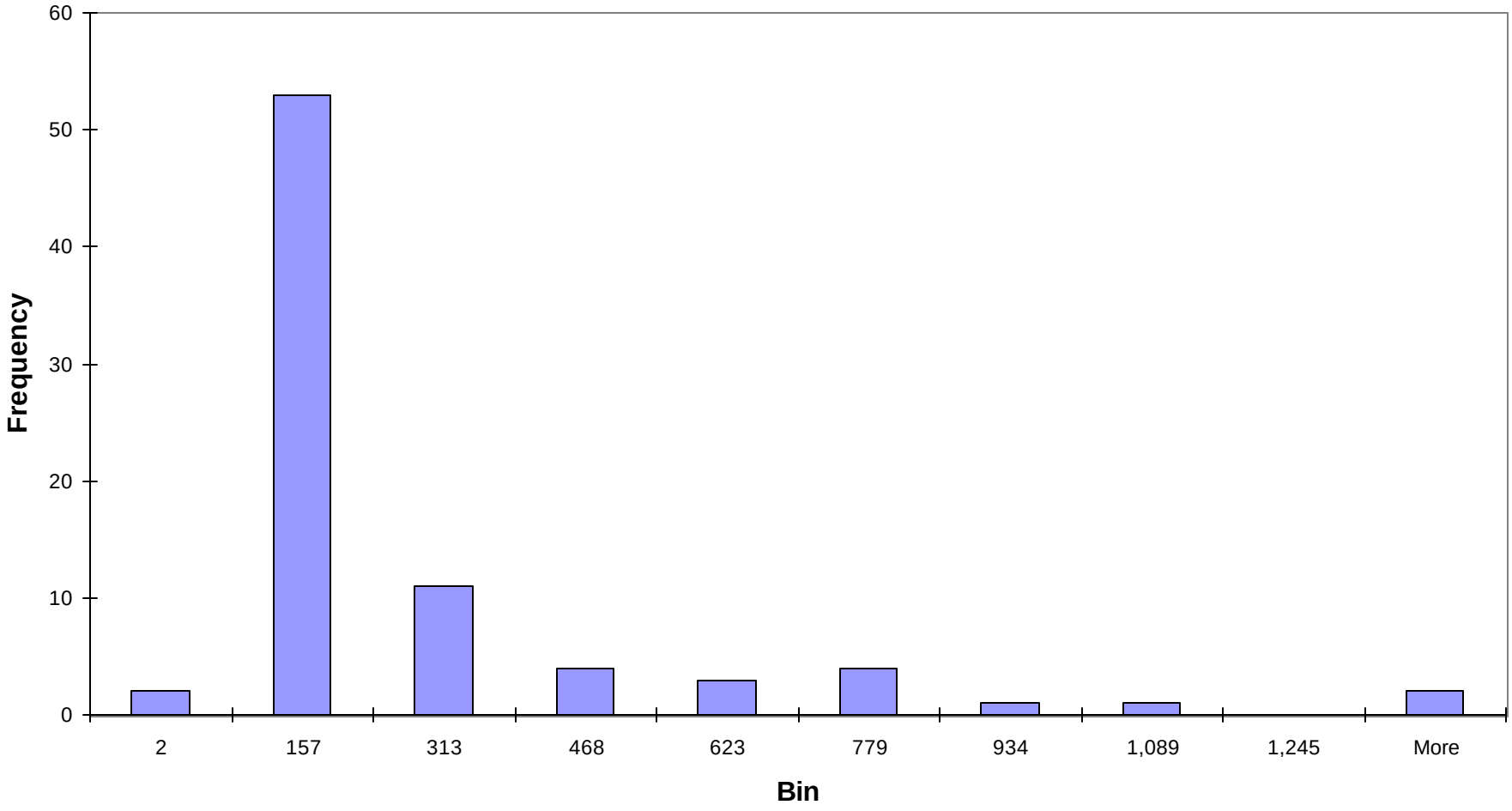


FIGURE D-6
NORMAL DISTRIBUTION HISTOGRAM
Segment 2 Eastbound 400s

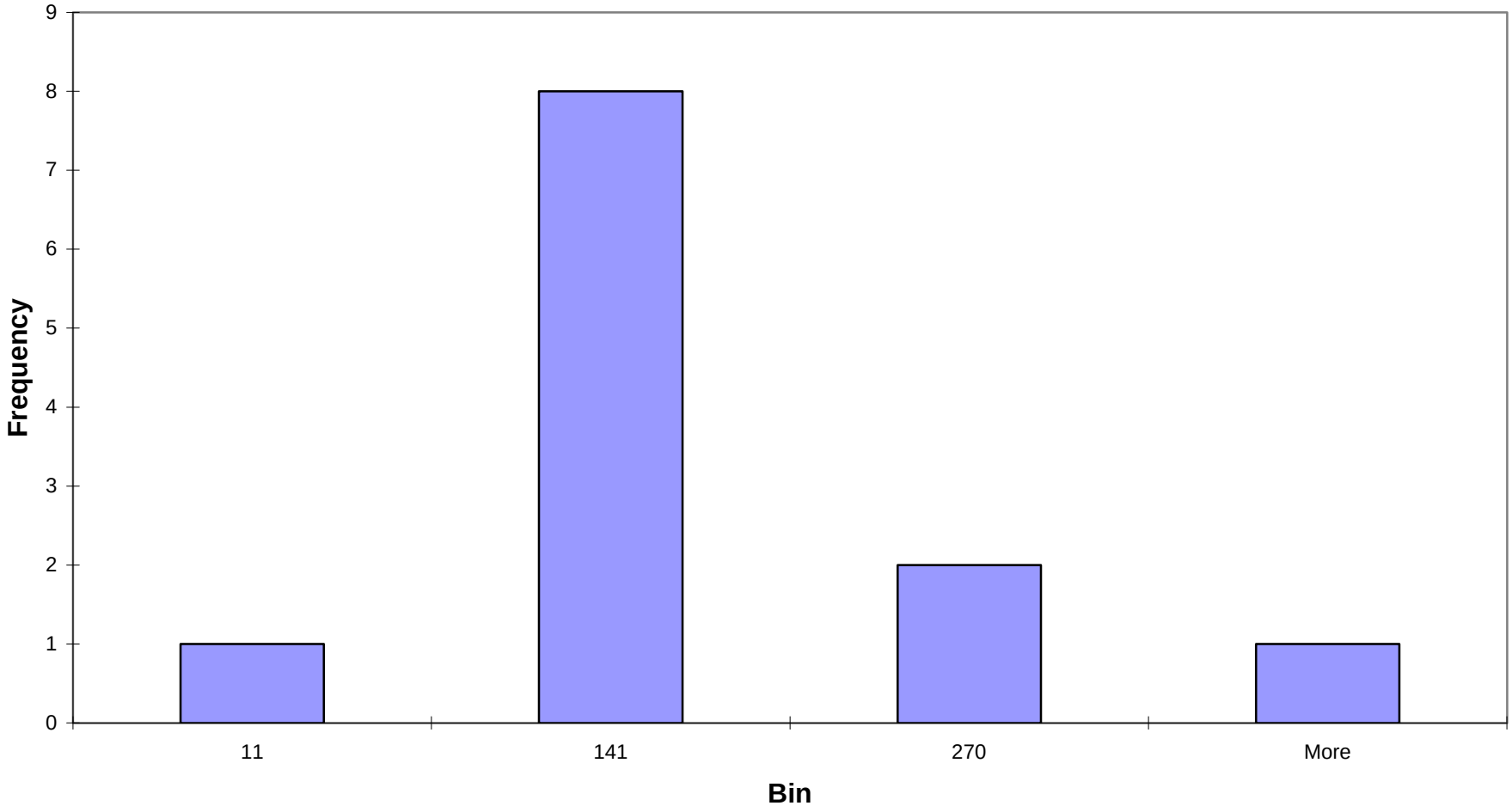


FIGURE D-7
NORMAL DISTRIBUTION HISTOGRAM
Segment 2 Eastbound 600s

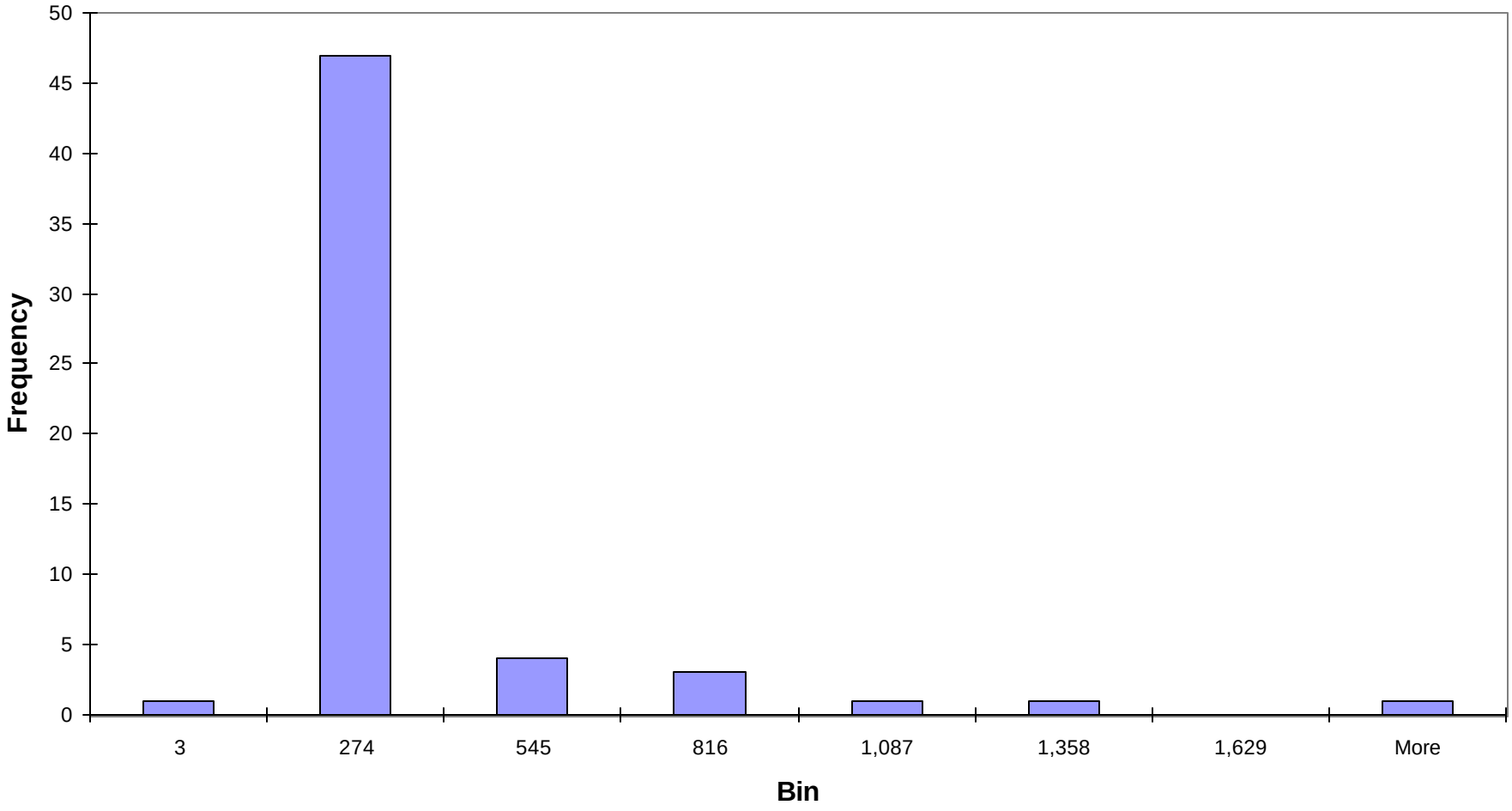
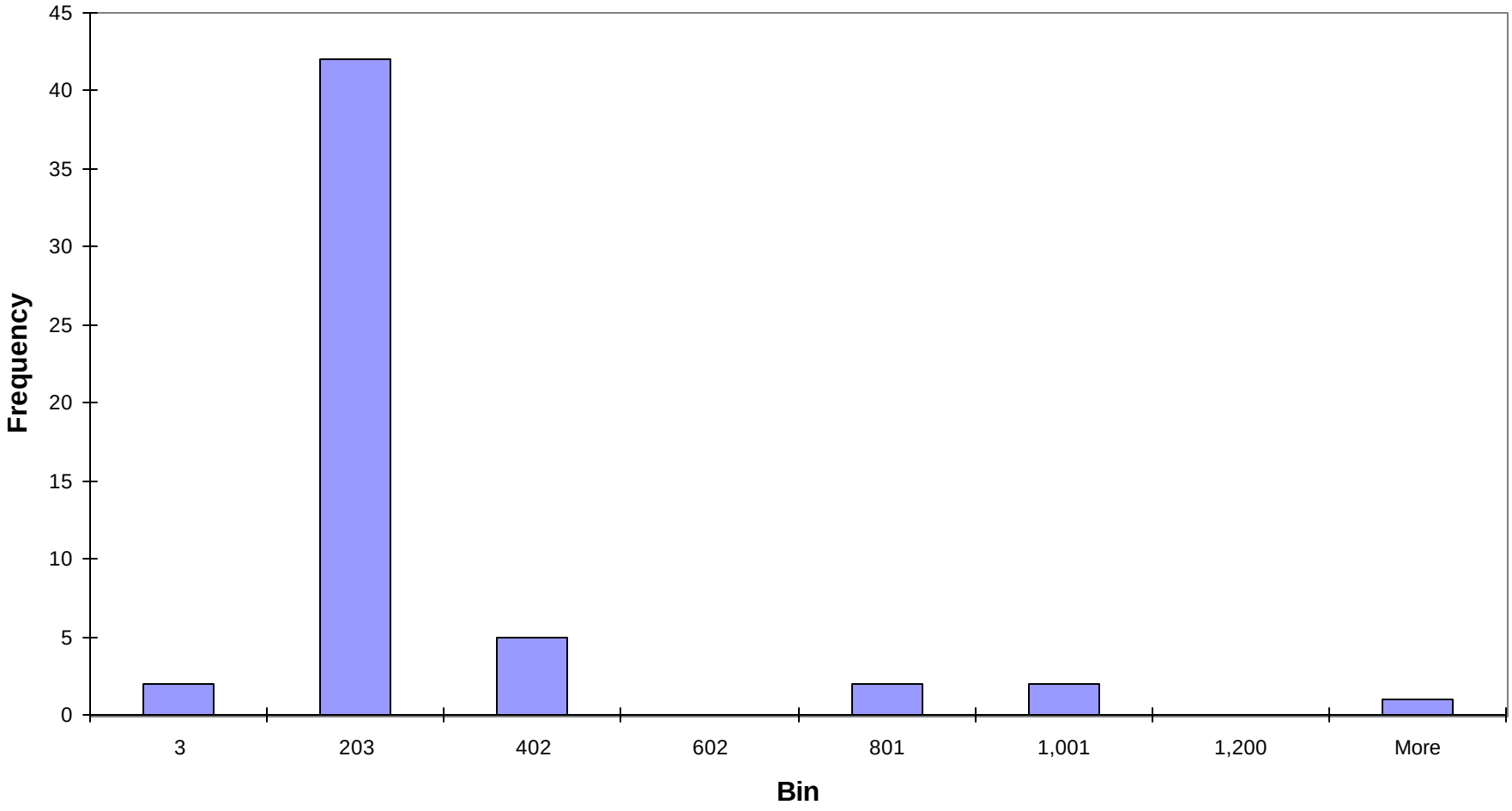


FIGURE D-8
NORMAL DISTRIBUTION HISTOGRAM
Segment 2 Eastbound 800s



APPENDIX E

CORRELATION OF TOTAL LEAD TO SOLUBLE LEAD

FIGURE E-1
CORRELATION OF TOTAL LEAD TO SOLUBLE LEAD
Segment 2 Westbound

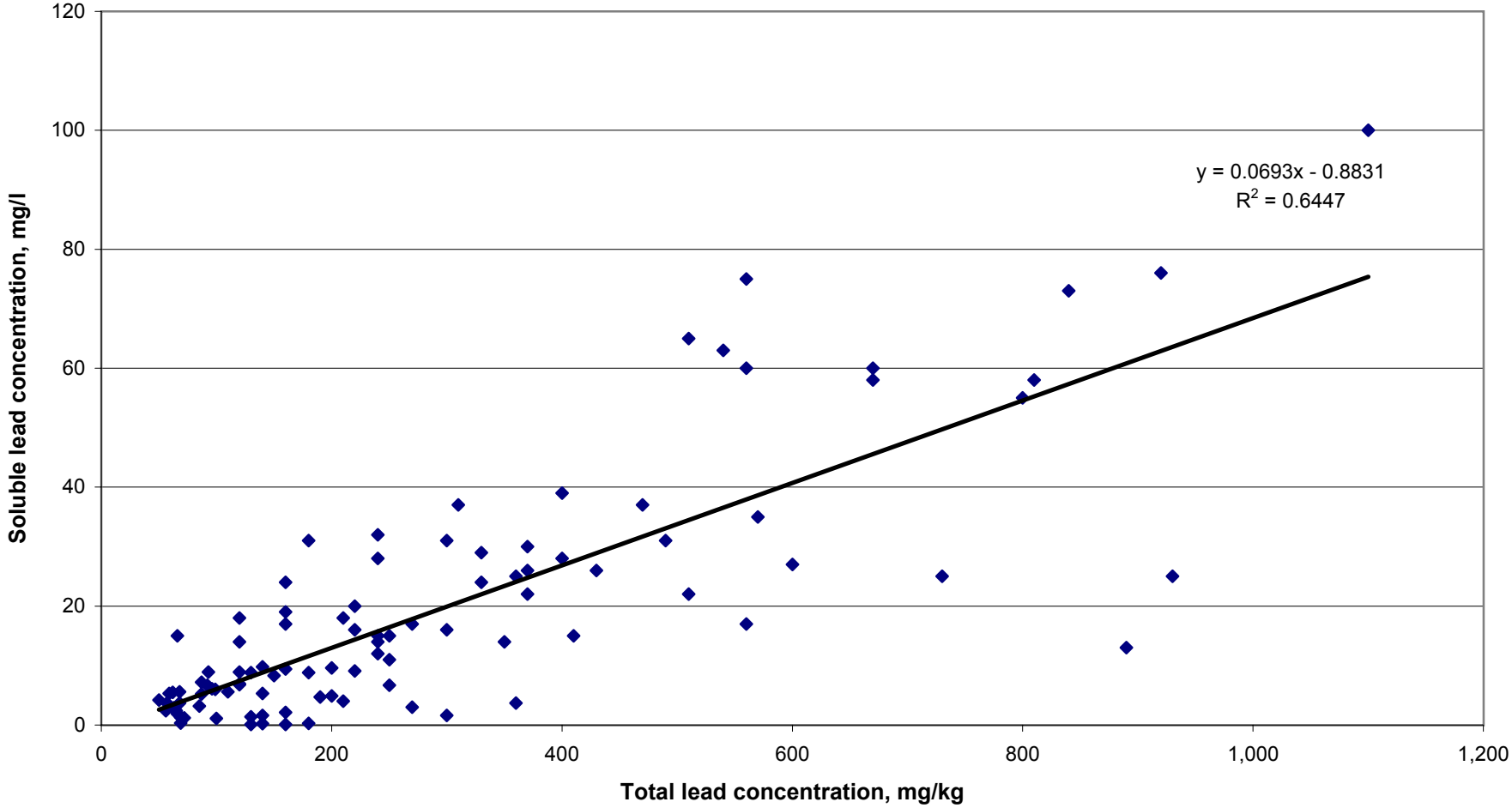
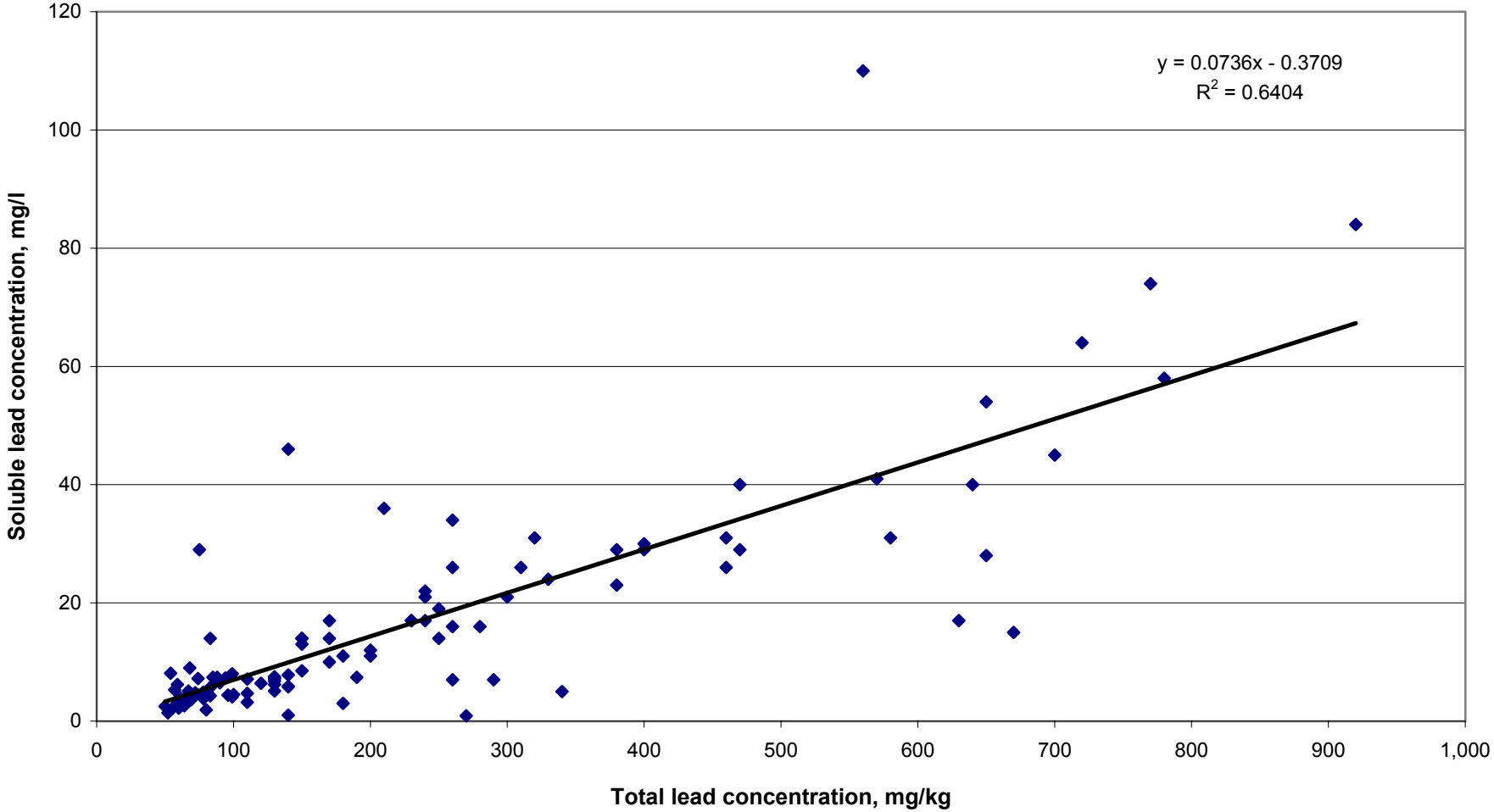


FIGURE E-2
CORRELATION OF TOTAL LEAD TO SOLUBLE LEAD
Segment 2 Eastbound



SUPPLEMENTAL AERIALLY DEPOSITED LEAD SITE INVESTIGATION REPORT FOR BRIDGE STRUCTURES AND RETAINING WALLS

INTERSTATE 10 HOV LANE WIDENING PROJECT
SEGMENTS 2 AND 3
PUENTE AVENUE TO STATE ROUTE 57
07-LA-10, PM 33.4/42.4
LOS ANGELES COUNTY, CALIFORNIA

***PREPARED FOR*:**
CALIFORNIA DEPARTMENT OF TRANSPORTATION
DISTRICT 7
100 SOUTH MAIN STREET
LOS ANGELES, CALIFORNIA

***PREPARED BY*:**
GEOCON CONSULTANTS, INC.
3303 N. SAN FERNANDO BLVD., SUITE 100
BURBANK, CALIFORNIA

CALTRANS CONTRACT 07A2730
TASK ORDER NO. 11
EA NOs. 07-1170U1 and 07-119341
PROJECT NOs. 070000085-1 AND 0700000097-1

GEOCON PROJECT NO. S9500-06-04 **May 31, 2011**

May 31, 2011

Project 0153240110

Mr. Samuel Yang
California Department of Transportation
District 7
100 South Main Street
Los Angeles, California

Re: Supplemental Aerially Deposited Lead Site Investigation Report for Bridge Structures and Retaining Walls, Interstate 10 HOV Lane Widening Project, Segments 2 and 3, Puente Avenue to State Route 57, 07-LA-10, PM 33.4/42.4, Los Angeles County, California

Dear Mr. Yang:

AMEC Geomatrix, Inc. (AMEC), has reviewed the subject report that has been prepared by GEOCON Consultants, Inc. (GEOCON). The subject report was prepared by Geocon under subcontract to AMEC and in partial fulfillment of Task Order 11 to Contract 07A2730. The specifications, findings, and professional opinions are presented within the limits described by the client, after being prepared in accordance with generally accepted professional engineering and geologic practice. We find the report acceptable for its further use by Caltrans in the context of the report limitations provided by GEOCON. No warranty is expressed or implied.

Sincerely yours,
AMEC Geomatrix, Inc.

PROFESSIONAL GEOLOGIST
DUANE G. PAUL
No. 414
Exp. 12/31/11
CERTIFIED HYDROGEOLOGIST
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REGISTERED PROFESSIONAL ENGINEER
CALVIN HUNTER HARDCASTLE
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AMEC Geomatrix

GEOCON
CONSULTANTS, INC.
GEOTECHNICAL ■ ENVIRONMENTAL ■ MATERIALS

Project No. S9500-06-04
May 31, 2011

Mr. Duane Paul, PG, CHG
AMEC Geomatrix Inc.
510 Superior Avenue, Suite 200
Newport Beach, CA 92663

Subject: INTERSTATE 10 HOV LANE WIDENING PROJECT, SEGMENTS 2 AND 3
PUENTE AVENUE TO STATE ROUTE 57
07-LA-10 PM 33.4/42.4 LOS ANGELES COUNTY, CALIFORNIA
CONTRACT NO. 07A2730, TASK ORDER NO. 11, EAs. 07-1170U1 AND 07-119341
CALTRANS PROJECT NOs. 070000085-1 AND 0700000097-1
SUPPLEMENTAL AERIALLY DEPOSITED LEAD SITE INVESTIGATION REPORT
FOR BRIDGE STRUCTURES AND RETAINING WALLS

Dear Mr. Paul:

In accordance with Caltrans Contract No. 07A2730, Task Order No. 11 and the AMEC Geomatrix Agreement Number 2010-5005-15324 executed on December 16, 2010, Geocon Consultants, Inc. performed an aerially deposited lead investigation at specific locations between Puente Avenue and State Route 57 (PM 13.6/42.4) within the Interstate High Occupancy Vehicles lane project limits in the Cities of Baldwin Park and West Covina, Los Angeles County, California. The accompanying report summarizes the services performed, including the advancement of hand-auger and geoprobe borings, soil sampling, laboratory analyses, and global positioning system data acquisition.

The contents of this report reflect the views of the author, who is responsible for the facts and accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the State of California or the Federal Highway Administration. This report does not constitute a standard, specification, or regulation.

Please contact us if there are questions concerning this report or if we may be of further service.

Sincerely,

GEOCON CONSULTANTS, INC.

PROFESSIONAL GEOLOGIST
MICHAEL P. CONKLE
No. 7824
Exp. 9/30/12
STATE OF CALIFORNIA

Mike Akoto
Staff Geologist

Michael P. Conkle, PG
Project Manager

(3/1CD) Addressee

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C. Laboratory Reports and Chain-of-Custody Documentation
D. Boring Logs
E. Data Validation Report

EXECUTIVE SUMMARY

Interstate (I-10) is an east-west route classified as interstate freeway that provides commuter access to the Los Angeles Central Business District from Riverside County. The Department of Transportation (Caltrans) plans to extend the existing I-10 High Occupancy Vehicle (HOV) lanes to Interstate 15 in San Bernardino County. Geocon Consultants, Inc. and AMEC Geomatrix Inc. performed an aerially deposited lead (ADL) investigation, at specific locations (Segments 2 and 3) within the I-10 HOV project limits. This investigation was performed between Puente Avenue and State Route 57 (PM 33.4/42.4) near the Cities of Baldwin Park and West Covina, Los Angeles County, California. The objective of the investigation was to evaluate soil at the Site for the potential presence of elevated concentrations of lead suspected due to impact from vehicle exhaust emissions when leaded gasoline was used. Caltrans will use information obtained from the investigation to determine soil disposal options and identify health and safety concerns during construction activities at the Sites.

Project Segment 2 extends between approximately Puente Avenue on the west and Citrus Street on the east. Project Segment 3 extends from approximately Citrus Street on the west to the Routes 10/57/210 Interchange on the east.

Laboratory analytical data verification was performed in accordance with the United States Environmental Protection Agency Contract Laboratory Program National Functional Guidelines for Inorganic Data Review. Based on the data review some of the sample results were qualified as estimated values (J-flagged). The data qualifiers have been appended to the respective data in the analytical results summary tables (Table 1 through 4). A review of the laboratory QA/QC results indicates satisfactory data reporting, and the data are of sufficient quality for the purposes of this report. Sampling results by Segment are discussed below.

Segment 2 – EA 1170U1 (Caltrans Project No. 070000085-1)

Total lead was detected in 83 soil samples at a maximum concentration of 180 milligrams per kilogram (mg/kg). Total lead concentrations exceeding the Total Threshold Limit Concentration (TTLC) were not reported for any of the 83 soil samples collected within Segment 2. Eleven samples were analyzed for soluble lead using the waste extraction test (WET). WET lead was reported for the samples at concentrations ranging from 1.2 to 8.4 milligrams per liter (mg/l). Two of the eleven soil samples analyzed using the WET contained soluble lead concentrations greater than or equal to the Soluble Threshold Limit Concentration (STLC) of 5.0 mg/l and were further analyzed by the WET using de-ionized water as the extractant (DI-WET). DI-WET lead was reported for one of the samples at a concentration of 0.46 mg/l. Concentrations of Toxicity Characteristic Leaching Procedure (TCLP) lead in excess of 5.0 mg/l were not reported for the three samples analyzed. Analysis of selected soil samples indicate that the pH of the soil ranged from 7.5 to 8.4.

Analysis of three select soil samples for CCR Title 22 metals did not indicate the presence of metals at or above their respective TTLCs or ten times their respective STLCs (other than lead). The concentrations of metals, other than lead, reported in the soil samples were below their respective California Human Health Screening Levels (CHHSLs) for residential and industrial land use.

Segment 3 – EA 119341 (Caltrans Project No. 0700000097-1)

Total lead was detected in 187 soil samples at a maximum concentration of 590 mg/kg. Total lead concentrations exceeding the TTLC were not reported for any of the 187 soil samples collected within Segment 3. Fifty-three samples were analyzed for soluble lead using the WET. WET lead was reported for the samples at concentrations ranging from 1.6 to 57 mg/l. Forty-one soil samples were reported to contain (WET) soluble lead concentrations greater than or equal to the STLC and were further analyzed by DI-WET. DI-WET lead was not detected at concentrations equal to or exceeding the detection limit of 0.21 mg/l. Concentrations of TCLP lead in excess of 5.0 mg/l were not reported for the 26 samples analyzed. Analysis of selected soil samples indicate that the pH of the soil ranged from 7.2 to 8.4.

Analysis of thirteen select soil samples for CCR Title 22 metals did not indicate the presence of at or above their respective TTLCs or ten times their respective STLCs metals (other than lead). The concentrations of metals, other than lead, arsenic, and cadmium reported in the soil samples were below their respective CHHSLs for residential and industrial land use. Arsenic was reported for twelve of the samples at concentrations ranging from 1.2 to 8.5 mg/kg. The reported arsenic concentrations exceed the industrial and residential use CHHSLs of 0.24 and 0.07mg/kg, respectively; however the reported arsenic concentrations are within the reported range of background concentrations in California soils. Cadmium was reported for the samples at concentrations ranging from 0.77 to 6.8 mg/kg. The reported cadmium concentrations exceed the residential use CHHSL of 1.7 mg/kg but are less than the industrial use CHHSL of 7.5 mg/kg.

AERIALLY DEPOSITED LEAD SITE INVESTIGATION REPORT

1. INTRODUCTION

Interstate (I-10) is an east-west route classified as interstate freeway that provides commuter access to the Los Angeles Central Business District from Riverside County. The Department of Transportation (Caltrans) plans to extend the existing I-10 High Occupancy Vehicle (HOV) lanes to the Interstate 15 in San Bernardino County. Geocon Consultants, Inc. (Geocon) and AMEC Geomatrix Inc. (AMEC) performed an aerially deposited lead (ADL) investigation for Caltrans at specific locations (Segments 2 and 3) within the I-10 HOV project limits. This investigation was performed between Puente Avenue and State Route 57, Post Mile (PM) 33.4 to 42.4, near the Cities of Baldwin Park and West Covina, Los Angeles County, California (Figure 1). The investigation was conducted under Caltrans Contract No. 07A2730, Task Order (TO) No. 11, Expense Authorizations 07-1170U1 and 07-119341, and Caltrans Project Nos. 070000085-1 and 0700000097-1. A general description of the investigation objectives are summarized below.

1.1 Investigation Background/Objective

Testing by Caltrans throughout the State has shown that ADL exists in soil along major highway routes due to vehicle exhaust containing lead from the combustion of leaded gasoline. The concentration and distribution of ADL in soil is a function of many variables, but in general, highway age and traffic volume appear to be primary factors. The objective of the investigation was to evaluate soil at the Site for the potential presence of elevated concentrations of lead suspected due to impact from vehicle exhaust emissions when leaded gasoline was used. Caltrans will use information obtained from the investigation to determine soil management options (e.g., disposal or onsite reuse) and identify health and safety concerns during proposed construction activities at the Sites.

2. SCOPE OF SERVICES

We performed the scope of services summarized below as requested by Caltrans in TO No.11

2.1 Pre-field Activities

- Prepared a *Health and Safety Plan* (HSP) dated January 2011 to provide guidelines on the use of personal protective equipment and the health and safety procedures to be implemented by Geocon and AMEC personnel during field activities. The HSP specified the safety procedures for field work, summarized chemical hazard information, and identified site safety officers, emergency contacts, and the locations of emergency medical care facilities. A copy of the HSP is provided in Appendix A.

- Contacted Underground Service Alert (USA) to notify utility companies of the field activities. The USA ticket number are A10200149, A10200167, A10200178, A10200187, A10200198, A10200202, A10200209, A10200217, A10200228, A10200239, A10200262, A10200282, A10630603, and A10700568.

2.2 Field Activities

Field activities consisted of collecting 215 soil samples from 96 hand-auger borings between January 24 and January 28, 2011. Additional field activities, which consisted of collecting 55 soil samples from twelve direct-push borings, were performed by AMEC on March 15, 2011. The 108 borings were advanced at the approximate locations, selected by Caltrans, as shown on Figures 2-1 through 2-14. Photos of the boring locations and copies of the daily field notes from Geocon and AMEC are provided in Appendix B. Soil samples were collected from boreholes at 6-inch depth intervals, selected by Caltrans, ranging from the surface to a depth of 10 feet. Soil samples were homogenized in the field and placed in laboratory-provided sample containers for subsequent laboratory analysis.

2.3 GPS Coordinates

The borings were located with a Trimble GeoXT Global Positioning System (GPS) receiver using State Plane 83 coordinates and TerraSync™ software. Boring location latitude/longitude coordinates are provided on Tables 1 and 3.

2.4 Laboratory Analyses

Sample laboratory analyses were performed by ATL. Copies of laboratory reports and chain-of-custody (COC) documentation are in Appendix C. As requested by Caltrans in TO No. 11, samples were analyzed as follows:

- Two-hundred seventy soil samples were analyzed for total lead using Environmental Protection Agency (EPA) Test Method 6010B.
- Sixty-four soil samples with total lead concentration greater than or equal to 50 milligrams per kilogram (mg/kg) were analyzed for soluble lead by the California Waste Extraction Test (WET) using citrate acid as the extractant by EPA Test Method 7420.
- Forty-three samples with WET soluble lead concentrations greater than 5.0 mg/l and were analyzed for soluble lead using the WET with de-ionized water as the extractant (DI-WET).
- Twenty-nine soil samples with the highest total lead concentrations were also tested for soluble lead using the Toxicity Characteristic Leaching Procedure (TCLP) by EPA Test Method 1311/7420.
- Sixteen soil samples were analyzed for Title 22 metals according to Title 22 CCR, EPA Test Method 6010B and 7471A (mercury).
- The twenty-nine soil samples with the highest total lead concentrations were tested for pH using EPA Test Method 9045C.
- Twenty equipment blank water samples were analyzed for total lead using EPA Test Method 6010B.
- Four field blank water samples were analyzed for total lead using EPA Test Method 6010B.
- One sample of the source water used for equipment blank and field blank samples collected by AMEC was analyzed for total lead using EPA Test Method 6010B.

2.5 Report Preparation

This report was prepared to summarize the objectives, procedures, and results of the supplemental ADL investigation activities requested by Caltrans as performed by Geocon and AMEC.

3. INVESTIGATIVE METHODS

3.1 Soil Sampling

Soil samples were collected from borings advanced with 2.5-inch-diameter stainless steel hand-augers and a direct-push drilling rig. Surface vegetation (e.g., native grasses/forbs and landscaping plants) at the boring locations was removed prior to boring/sampling activities. Soil collected from each depth interval was placed into to a new re-sealable plastic bag and the soil was field homogenized within the sample bag. Homogenized soil within the bag was then transferred into a new 4-ounce, laboratory-provided, glass soil jar which was subsequently capped, labeled with the sample date/time and a unique soil sample number, placed in a chilled ice chest, and delivered to the analytical laboratory the same day the sample was collected.

Soil boring numbers were assigned based on a four-digit unique identification number provided by Caltrans (1127) and a sequential location number (101 through 196 for hand-auger borings and 201 through 212 for the direct-push borings). Soil sample numbers were designated by the boring number and the 6-inch depth interval from which the sample was collected. For example, the soil sample designated 1127-101-1.5-2.0 was obtained from a depth of approximately 1.5 to 2.0 feet from boring 1127-101 and soil sample designated 1127-201-3.5 was obtained from a depth of approximately 3.0 to 3.5 feet from boring 1127-201.

Quality Assurance/Quality Control (QA/QC) procedures conducted during field activities included decontamination of sampling equipment before each boring was advanced, single use of new re-sealable plastic bags and soil jars, and sample COC documentation. Hand-augers and direct-push sampling equipment were cleansed between borings by washing the equipment with an Alconox™ tap water solution followed by a tap water rinse and a final rinse with distilled/purified water.

The hand-auger borings were backfilled with surface soil from the immediate vicinity of the boring location. Direct-push borings were backfilled with hydrated bentonite chips. Decontamination water was discharged to the ground surface away from areas potentially associated with surface water bodies or storm drain inlets.

3.2 Equipment Blank Sampling

Sixteen equipment blank samples were collected by Geocon (one for each chain of custody completed) to verify proper cleaning of the hand-augers. The equipment blank samples were obtained by collecting distilled/purified water passed over the hand-augers into unpreserved, laboratory-provided containers.

Four equipment blank samples, four field blank samples, and one source water sample collected by AMEC Geomatrix, Inc. were analyzed to verify cleaning of the direct-push equipment. The equipment blank samples were obtained by collecting distilled/purified water through the direct-push sampling equipment into unpreserved, laboratory-provided containers. The field blank samples were collected by filling unpreserved laboratory-provided containers with distilled/purified water, and the source water sample was collected by filling unpreserved laboratory-provided container with distilled/ purified water used for both equipment blanks and field blank water samples.

3.3 Deviations from the Task Order

The TO served as the workplan for this investigation. The scope of work was performed as generally summarized in the TO with the following exceptions based on directions provided by Caltrans during sampling activities:

The TO indicated that hand auger equipment used for soil collection should be decontaminated prior to the collection of each sample at each depth. Approximately half way through the second day of sampling the onsite Caltrans representative observed that one of the Geocon sampling crews were decontaminating the equipment immediately after the collection of the soil sample and not immediately prior to sample collection. The error in sampling protocol was discussed with the sampling crew and they adjusted their decontamination procedures accordingly. Based on review of the analytical results this procedural error does not appear to have negatively impacted the sample results.

At Puente Avenue boring 1127-101 was not completed to the planned total depth of 9 feet because refusal conditions were encountered at 7.5 feet due to the presence of gravel. Boring 1127-102 was not completed also to the planned total depth of 9 feet because refusal conditions were encountered at 6 feet due to the presence of gravel. Boring 1127-103 was not completed to the total depth of 9 feet because refusal conditions were encountered at 2 feet due to the presence of gravel. Sample 1127-103-0.5-1.0 was collected at a depth of 0.5 to 1.0 foot, which was not originally specified in the TO. Boring 1127-104 was not completed to the planned total depth of 9 feet because refusal conditions were encountered at 4 feet due to the presence of gravel.

At Cameron Avenue, boring 1127-105 was not completed to the planned total depth of 9 feet because refusal conditions were encountered at 4.5 feet due to the presence of gravel. Boring 1127-106 was not

completed to the planned total depth 9 feet because of refusal conditions that were encountered at 4 feet due to the presence of gravel.

At West Covina Parkway Undercrossing/Pacific Avenue, boring 1127-110 was not completed to the planned total depth of 6 feet because refusal conditions were encountered at 3 feet due to the presence of gravel. Sample 1127-110-0.5-1.0 was collected at 0.5 to 1.0 foot, which was not originally specified in the TO. Boring 1127-111 was not completed to the planned total depth of 6 feet because refusal conditions were encountered at 3 feet due to the presence of gravel. Sample 1127-111-0.5-1.0 was collected at 0.5 to 1.0 foot, which was not originally specified in the TO. Boring 1127-112 was not completed to the planned total depth of 6 feet because refusal conditions were encountered at 3 feet due to the presence of gravel. Sample 1127-112-0.5-1.0 was collected at 0.5 to 1.0 foot, which was not originally specified in the TO.

At Vincent Avenue Undercrossing, boring 1127-113 was not completed to the planned total depth of 5 feet because refusal conditions were encountered at 2.5 feet due to the presence of gravel. Boring 1127-114 was not completed to the planned total depth of 5 feet because refusal conditions were encountered at 4 feet due to the presence of gravel. Boring 1127-115 was also not completed to the planned total depth of 5 feet because refusal conditions were encountered at 4 feet due to the presence of gravel.

At Lark Allen Avenue Undercrossing, boring 1127-118 was not completed to the planned total depth of 6 feet because refusal conditions were encountered at 4.5 feet due to the presence of gravel and cobbles. Boring 1127-119 was not completed to the planned total depth of 10 feet because refusal conditions were encountered at 4 feet due to the presence of gravel. Boring 1127-120 was not completed to the planned total depth of 10 feet because refusal conditions were encountered at 4.5 feet due to the presence of gravel. Boring 1127-122 was not completed to the planned total depth of 10 feet because refusal conditions were encountered at 6 feet due to the presence of gravel.

At Azusa Avenue, boring 1127-125 was not completed to the planned total depth of 6 feet because refusal conditions were encountered at 2.5 feet due to the presence of gravel. Sample 1127-125-0.5-1.0 was collected at 0.5 to 1.0 foot, which was not originally specified in the TO. Boring 1127-126 was not completed to the planned total depth of 6 feet because refusal conditions were encountered at 3 feet due to the presence of coarse gravel. Sample 1127-126-0.5-1.0 was collected at 0.5 to 1.0 foot, which was not originally specified in the TO. Boring 1127-127 was not completed to the planned total depth of 6 feet because refusal conditions were encountered at 2.5 feet due to the presence of gravel. Sample 1127-127-0.5-1.0 was collected at 0.5 to 1.0 foot, which was not originally specified in the TO. Boring 1127-128 was not completed to the planned total depth of 6 feet because refusal conditions were encountered at 2.5 feet due to the presence of gravel. Sample 1127-128-0.5-1.0 was collected at 0.5 to 1.0 foot, which was not originally specified in the TO.

At Hollenbeck Street, boring 1127-129 was not completed to the planned total depth of 10 feet because refusal conditions were encountered at 4 feet due to the presence of gravel. Sample 1127-129-0.5-1.0 was collected at 0.5 to 1.0 foot, which was not originally specified in the TO. Boring 1127-131 was not completed to the planned total depth of 10 feet because refusal conditions were encountered at 4.5 feet due to the presence of gravel. Sample 1127-131-0.5-1.0 was collected at 0.5 to 1.0 foot, which was not originally specified in the TO. Boring 1127-132 was not completed to the planned total depth of 10 feet because refusal conditions were encountered at 5.5 feet due to the presence of gravel. Boring 1127-133 was not completed to the planned total depth of 10 feet because refusal conditions were encountered at 2.5 feet due to the presence of gravel. Boring 1127-134 was not completed to the planned total depth of 10 feet because refusal conditions were encountered at 5.5 feet due to the presence of gravel. Boring 1127-135 was not completed to the planned total depth of 10 feet because refusal conditions were encountered at 3 feet due to the presence of gravel. Sample 1127-135-0.5-1.0 was collected at 0.5 to 1.0 foot, which was not originally specified in the TO. Boring 1127-136 was not completed to the planned total depth of 10 feet because refusal conditions were encountered at 5.5 feet due to the presence of gravel.

At Citrus Street, boring 1127-139 was not completed to the planned total depth of 9 feet because refusal conditions were encountered at 2 feet due to the presence of gravel. Sample 1127-139-0.5-1.0 was collected at 0.5 to 1.0 foot, which was not originally specified in the TO. Boring 1127-140 was not completed to the planned total depth of 9 feet because refusal conditions were encountered at 2.5 feet due to the presence of gravel. Sample 1127-140-0.5-1.0 was collected at 0.5 to 1.0 foot, which was not specified in the TO.

At Barranca Avenue Undercrossing, Boring 1127-141 was not completed to the planned total depth of 8 feet because refusal conditions were encountered at 2.5 feet due to the presence gravel. Sample 1127-141-0.5-1.0 was collected at 0.5 to 1.0 foot was not specified in the TO. Boring 1127-142 was not completed to the planned total depth of 8 feet because refusal conditions were encountered at 2 feet due to the presence of gravel. Sample 1127-142-0.5-1.0 was collected at 0.5 to 1.0 foot, which was not specified in the TO. Boring 1127-143 was not completed to the planned total depth of 8 feet because refusal conditions were encountered at 3 feet due to the presence of gravel. Sample 1127-143-0.5-1.0 was collected at 0.5 to 1.0 foot, which was not specified in the TO. Boring 1127-144 was not completed to the planned total depth of 8 feet because refusal conditions were encountered at 2 feet due to the presence of gravel. Sample 1127-144-0.5-1.0 was collected at 0.5 to 1.0 foot, which was not specified in the TO. Boring 1127-145 was not completed to the planned total depth of 8 feet because refusal conditions were encountered at 2 feet due to the presence of gravel. Sample 1127-145-0.5-1.0 was collected at 0.5 to 1.0 foot, which was not originally specified in the TO. Boring 1127-146 was not completed to the planned total depth of 8 feet because refusal conditions were encountered at 2 feet due to the presence of gravel. Sample 1127-146-0.5-1.0 was collected at 0.5 to 1.0 foot, which was not specified in the TO. Boring 1127-147 was not completed to planned total depth of 8 feet because

refusal conditions were encountered at 7 feet due to the presence of gravel. Boring 1127-148 was completed to the planned total depth of 8 feet because refusal conditions were encountered at 5 feet due to the presence of gravel. Sample 1127-148-0.5-1.0 was collected at 0.5 to 1.0 foot, which was not specified in the TO. Boring 1127-149 was not completed to planned total depth of 8 feet because refusal conditions were encountered at 6.5 feet due to the presence of gravels. Sample 1127-149-0.5-1.0 was collected at 0.5 to 1.0 foot, which was not specified in the TO. Boring 1127-150 was not completed to the planned total depth of 8 feet because refusal conditions were encountered at 4.5 feet due to the presence of gravel.

At Grand Avenue undercrossing, Boring 1127-154 was not completed to planned total depth of 8 feet because refusal conditions were encountered at 2.5-feet due to the presence of gravel. Sample 1127-154-0.5-1.0 was collected at 0.5 to 1.0 foot, which was not specified in the TO.

At Holt Avenue undercrossing, Boring 1127-156 was not completed to the planned total depth of 6 feet because of refusal conditions were encountered at 3 feet due to the presence of gravel. Sample 1127-156-0.5-1.0 was collected at 0.5 to 1.0 foot which was not specified in the TO. Boring 1127-157 was not completed to the planned total depth of 6 feet because refusal conditions were encountered at 2.5 feet due to the presence of gravel. Sample 1127-157-0.5-1.0 was collected at 0.5 to 1.0 feet, which was not specified in the TO. Boring 1127-158 was not completed to the planned total depth of 6 feet because refusal conditions were encountered at 4.5 feet due to the presence of gravel. Sample 1127-158-0.5-1.0 was collected at 0.5 to 1.0 foot, which was not specified in the TO.

At Via Verde undercrossing, boring 1127-159 was not completed to the planned total depth of 5 feet because refusal conditions were encountered at 2 feet due to the presence of gravel. Boring 1127-160 was not completed to the planned total depth of 5 feet because refusal conditions were encountered at 2 feet due to the presence of gravel. Boring 1127-161 was not completed to the planned total depth of 5 feet because refusal conditions were encountered at 4 feet due to the presence of gravel. Boring 1127-162 was not completed to the planned total depth of 5 feet because refusal conditions were encountered at 3.5 feet due to the presence of gravel. Boring 1127-163 was completed to the planned total depth of 5 feet because refusal conditions were encountered at 4 feet due to the presence of gravel. Boring 1127-164 was not completed to the planned total depth of 5 feet because refusal conditions were encountered at 3 feet due to the presence of gravel. Boring 1127-165 was not completed to the planned total depth of 5 feet because refusal conditions were encountered at 2 feet due to the presence of gravel. Boring 1127-166 was not completed to the planned total depth of 5 feet because refusal conditions were encountered at 3.5 feet due to the presence of gravel.

At Kellogg Drive, boring 1127-168 was not completed to the planned total depth of 6 feet because refusal conditions were encountered at 2.5 feet due to the presence of gravel. Sample 1127-168-0.5-1.0 was collected at 0.5 to 1.0 foot, which was not specified in the TO. Boring 1127-169 was not

completed to the planned total depth of 6 feet because refusal conditions were encountered at 3 feet due to the presence of gravel. Sample 1127-169-0.5-1.0 was collected at 0.5 to 1.0 foot which was not specified in the TO. Boring 1127-170 not completed to the planned total depth of 6 feet because refusal conditions were encountered at 3 feet due to the presence of gravel. Sample 1127-170-0.5-1.0 was collected at 0.5 to1.0 foot, which was not specified in the Caltrans TO. Boring 1127-172 was not completed to the planned total depth of 6 feet because refusal conditions were encountered at 3 feet due to the presence of gravel. Sample 1127-0.5-1.0 was collected at 0.5 to1.0 foot, which was not specified in Caltrans TO. Boring 1127-174 was not completed to the planned total depth of 6 feet because refusal conditions were encountered at 2.5 feet due to the presence of gravel. Sample 1127-174-0.5-1.0 was collected at 0.5 to 1.0 foot, which was not specified in the Caltrans TO.

Hand-auger borings 1127-175 through 1127-196, located between Via Verde and Kellogg Drive, were added by Caltrans after the start of the field sampling program and were not part of the original scope outlined in the TO.

The sampling performed by AMEC with a direct-push rig at borings 1127-201 through 1127-212 was added by Caltrans after the start of the field sampling program and was not part of the original scope outlined in the TO.

4. FIELD OBSERVATIONS AND INVESTIGATIVE RESULTS

Soil samples were collected from borings located in both Segment 2 and Segment 3 of the I-10 HOV project. Project Segment 2 extends between approximately Puente Avenue on the west and Citrus Street on the east. Borings 1127-101 through 1127-136 were advanced within Segment 2. Project Segment 3 extends from approximately Citrus Street on the west to the Routes 10/57/210 Interchange on the east. Borings 1127-137 through 1127-196, and 1127-201 through 1127-212 were advanced within Segment 3. Sampling results by Segment are discussed below.

4.1 Segment 2 – EA 1170U1, Caltrans Project No. 070000085-1

4.1.1 Soil Conditions

Soil conditions encountered within Segment 2 generally ranged from very dark brown sandy silt and silty sand with gravel to very dark brown clayey sand and clayey silt. Surface water and groundwater was not encountered at the boring locations. Boring logs are presented in Appendix D.

4.1.2 Soil Sample Analytical Results

The Segment 2 soil sample analytical results for total lead, WET lead, DI-WET lead, TCLP lead, and pH are summarized in Table 1. Soil sample analytical results for Title 22 metals are summarized in Table 2.

Copies of laboratory reports and COC documentation are in Appendix C. The following summarizes the soil sample analytical results:

- **Total lead** was reported for 83 soil samples at concentrations ranging from an estimated ("J" flagged) 2.4J to 180 milligrams per kilogram (mg/kg).

- **WET lead** was reported for eleven samples at concentrations ranging from 1.2 to 8.4 mg/l. WET lead concentrations that equal or exceed the STLC value of 5.0 milligrams per liter (mg/l) were reported for two of the samples.

- **DI-WET lead** was reported for one of the two samples analyzed at a concentration of 0.46 mg/l. DI-WET lead was not reported above the laboratory detection limit of 0.21 mg/l for the other sample analyzed.

- **TCLP lead** was reported for two of the three samples analyzed at concentrations of 0.28 and 0.30 mg/l. TCLP lead was not detected above the laboratory detection limit of 0.21 mg/l in the remaining samples. TCLP lead concentrations that equal or exceed the TCLP value of 5.0 mg/l were not reported in the samples.

- **Title 22 metals** arsenic, beryllium, molybdenum, selenium, silver, and thallium were not reported, at concentration above their respective laboratory reporting limits, in the three samples analyzed. Excluding lead, concentrations of the other reported Title 22 metals were less than ten times their respective STLCs.

- **Soil pH** values in the three samples tested ranged from 7.5 to 8.4.

4.2 Segment 3 – EA 119341, Caltrans Project No. 0700000097-1

4.2.1 Soil Conditions

Soil conditions encountered within Segment 3 hand-auger borings generally ranged from very dark brown sandy silt and silty sand with gravel to very dark brown clayey sand and clayey silt. Weathered sandstone (bedrock), overlain by 12 to 18 inches of brown silty to clayey sand was encountered in the direct-push borings 1127-201 through 1127-208. Soil conditions encountered within direct-push borings 1127-209 through 1127-212 generally consisted of dark brown clayey and silty sands, and brown to dark brown clay. Surface water and groundwater was not encountered at the boring locations. Boring logs are presented in Appendix D.

4.2.2 Soil Sample Analytical Results

The Segment 3 soil sample analytical results for total lead, WET lead, DI-WET lead, TCLP lead, and pH analyses are summarized in Table 3. Soil sample analytical results for Title 22 metals are summarized in Table 4. Copies of laboratory reports and COC documentation are in Appendix C. The following summarizes the soil sample analytical results:

- **Total lead** was reported for 187 soil samples at concentrations ranging from an estimated ("J" flagged) 2.5J to 590 mg/kg.

- **WET lead** was reported for 53 samples at concentrations ranging from 1.6 to 57 mg/l. WET lead concentrations that equal or exceed the STLC value of 5.0 mg/l were reported for 41 of the samples.

- **DI-WET lead** was not reported above the laboratory detection limit of 0.21 mg/l for the any of the 41 samples analyzed.

- **TCLP lead** was reported for 24 of the 26 samples analyzed at concentrations ranging from an estimated 0.21J to 2.6 mg/l. TCLP lead was not detected above the laboratory detection limit of 0.21 mg/l in the two remaining samples. TCLP lead concentrations that equal or exceed the TCLP value of 5.0 mg/l were not reported in the samples.

- **Title 22 metals** beryllium, silver, and thallium were not detected in the 13 samples analyzed at concentration above their respective laboratory reporting limits. Excluding lead, concentrations of the other reported Title 22 metals were less than ten times their respective STLCs.

- **Soil pH** values in the 26 samples tested ranged from 7.2 to 8.4.

4.3 Data Validation

Geocon, AMEC, and ATL use QA/QC measures to minimize and control errors associated with field and laboratory methods. Field QA/QC measures consist of cleaning sampling equipment between each use with a detergent solution followed by tap and distilled/purified water rinses. Based on the equipment blank sample analytical results, it appears that the field investigation was free from potential cross-contamination resulting from inadequate equipment decontamination.

Laboratory QA/QC measures include the use of matrix spikes, duplicates, and method blanks, in addition to calculation of percent recovery and relative percentage difference (RPD). Laboratory analytical data verification was performed in accordance with the United States Environmental Protection Agency Contract Laboratory Program National Functional Guidelines for Inorganic Data Review. A data validation report based on review of the laboratory QA/QC results, for the data collected by Geocon and AMEC, is provided in Appendix E. Based on the data review some of the sample results were qualified as estimated values (J-flagged). The data qualifiers have been appended to the respective data in the analytical results summary tables (Table 1 through 4). A review of the laboratory QA/QC results indicates satisfactory data reporting, and the data are of sufficient quality for the purposes of this report.

5. FINDINGS

5.1 Segment 2 – EA 1170U1, Caltrans Project No. 070000085-1

5.1.1 Lead and pH

Total lead was detected in 83 soil samples at a maximum concentration of 180 mg/kg. Total lead concentrations exceeding the TTLC were not reported for any of the 83 soil samples collected within Segment 2. Two of the eleven soil samples analyzed using the WET contained soluble lead concentrations greater than or equal to the STLC of 5.0 mg/l and were further analyzed by DI-WET. DI-WET lead was reported for one of the samples at a concentration of 0.46 mg/l. Concentrations of TCLP lead in excess of 5.0 mg/l were not reported for the three samples analyzed. Analysis of selected soil samples indicate that the pH of the soil ranged from 7.5 to 8.4.

5.1.2 Title 22 Metals

Analysis of selected soil samples for CCR Title 22 metals did not indicate the presence of metals at or above their respective TTLCs or ten times their respective STLCs (other than lead). The concentrations of metals, other than lead, reported in the soil samples were below their respective California Human Health Screening Levels (CHHSLs) for residential and industrial land use.

5.2 Segment 3 – EA 119341, Caltrans Project No. 0700000097-1

5.2.1 Lead and pH

Total lead was detected in 187 soil samples at a maximum concentration of 590 mg/kg. Total lead concentrations exceeding the TTLC were not reported for any of the 187 soil samples collected within Segment 3. Forty-one soil samples were reported to contain (WET) soluble lead concentrations greater than or equal to the STLC and were further analyzed by DI-WET. DI-WET lead was not detected at concentrations equal to or exceeding the detection limit of 0.21 mg/l. Concentrations of TCLP lead in excess of 5.0 mg/l were not reported for the 26 samples analyzed. Analysis of selected soil samples indicate that the pH of the soil ranged from 7.2 to 8.4.

5.2.2 Title 22 Metals

Analysis of selected soil samples for CCR Title 22 metals did not indicate the presence of metals (other than lead) at or above their respective TTLCs or ten times their respective STLCs. The concentrations of metals, other than lead, arsenic, and cadmium reported in the soil samples were below their respective CHHSLs for residential and industrial land use.

Arsenic was detected in soil in twelve of the samples analyzed at concentrations ranging from 1.2 to 8.5J mg/kg. These results are greater than the residential/and industrial soil CHHSLs for arsenic of 0.07 and 0.24 mg/kg, respectively. Arsenic is a naturally occurring element; therefore, the concentrations

reported at the Site are compared to regional background concentrations. The March 2008 Department of Toxic Substance Control (DTSC) publication *Determination of a Southern California Regional Background Arsenic Concentration in Soil* establishes a regional background for arsenic within Southern California including Los Angeles County using naturally occurring and anthropogenic concentrations of arsenic. The report finds that the upper-bound background concentration for arsenic within Los Angeles County is 12 mg/kg. None of the detected arsenic concentrations exceeded 12 mg/kg, and therefore, the arsenic concentrations are considered to be consistent with background concentrations of arsenic in Los Angeles County.

Cadmium was detected in 13 soil samples at concentrations ranging from an estimated 0.77J to 6.8 mg/kg. Nine of the samples were reported to have cadmium concentrations greater than, or equal to, the residential soil CHHSL for cadmium of 1.7 mg/kg but less than the industrial CHHSL of 7.5 mg/kg.

Reported metals concentrations were compared with published background levels typically present in California soils as presented in *Background Concentrations of Trace and Major Elements in California Soils* (Kearney Foundation of Soil Science, Division of Agriculture and Natural Resources, University of California, March 1996). Concentrations of metals, other than lead, reported in soil samples collected from Segment 3 are within the published background ranges.

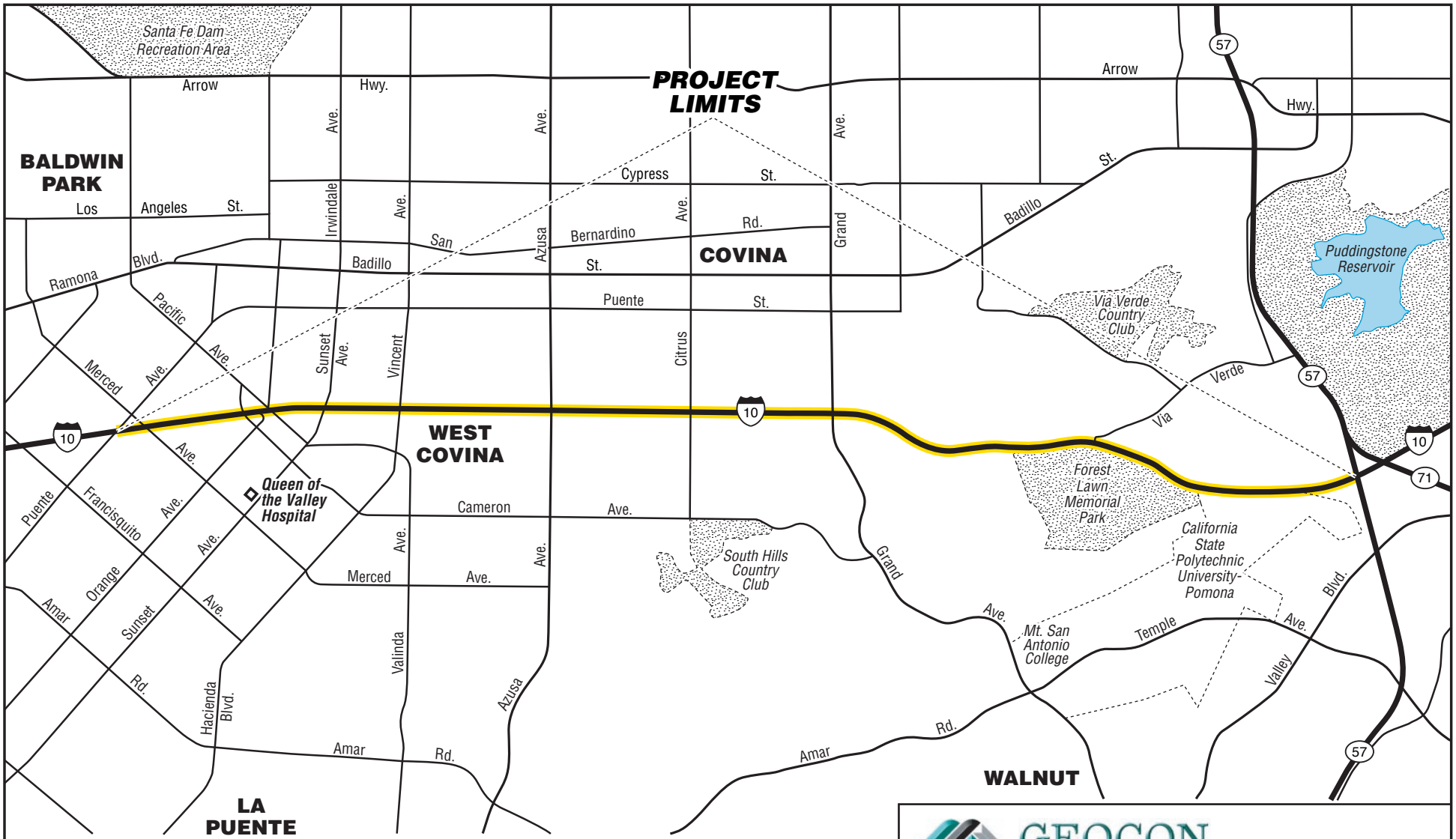
6. REPORT LIMITATIONS

This report has been prepared exclusively for AMEC and Caltrans. The information obtained is only relevant as of the date of the latest site visit and will require an update to reflect additional information obtained.

The findings presented herein are based on laboratory analytical results obtained from a limited number of samples collected from in-place soil and from widely spaced locations according to Caltrans-prescribed protocol. The purpose of these sampling and characterization activities was to allow Caltrans to reasonably predict the character of soil to be disturbed for planned construction activities within the described limits of the Caltrans right-of-way.

The Client should recognize that this report is not a comprehensive site characterization and should not be construed as such. The appropriate regulatory agency may require additional investigations. The findings as presented in this report are predicated on the results of the limited soil sampling and laboratory analyses performed. In addition, the information obtained is not intended to address potential impacts related to sources other than those specified herein.

Therefore, the report should only be deemed conclusive with respect to the information obtained. No guarantee or warranty of the results of the report is implied within the intent of this report or any subsequent reports, correspondence, or consultation, either express or implied. Geocon strived to perform the services summarized herein in accordance with the local standard of care in the geographic region at the time the services were rendered.



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Interstate 10 HOV Lane Widening Project

Los Angeles County, California

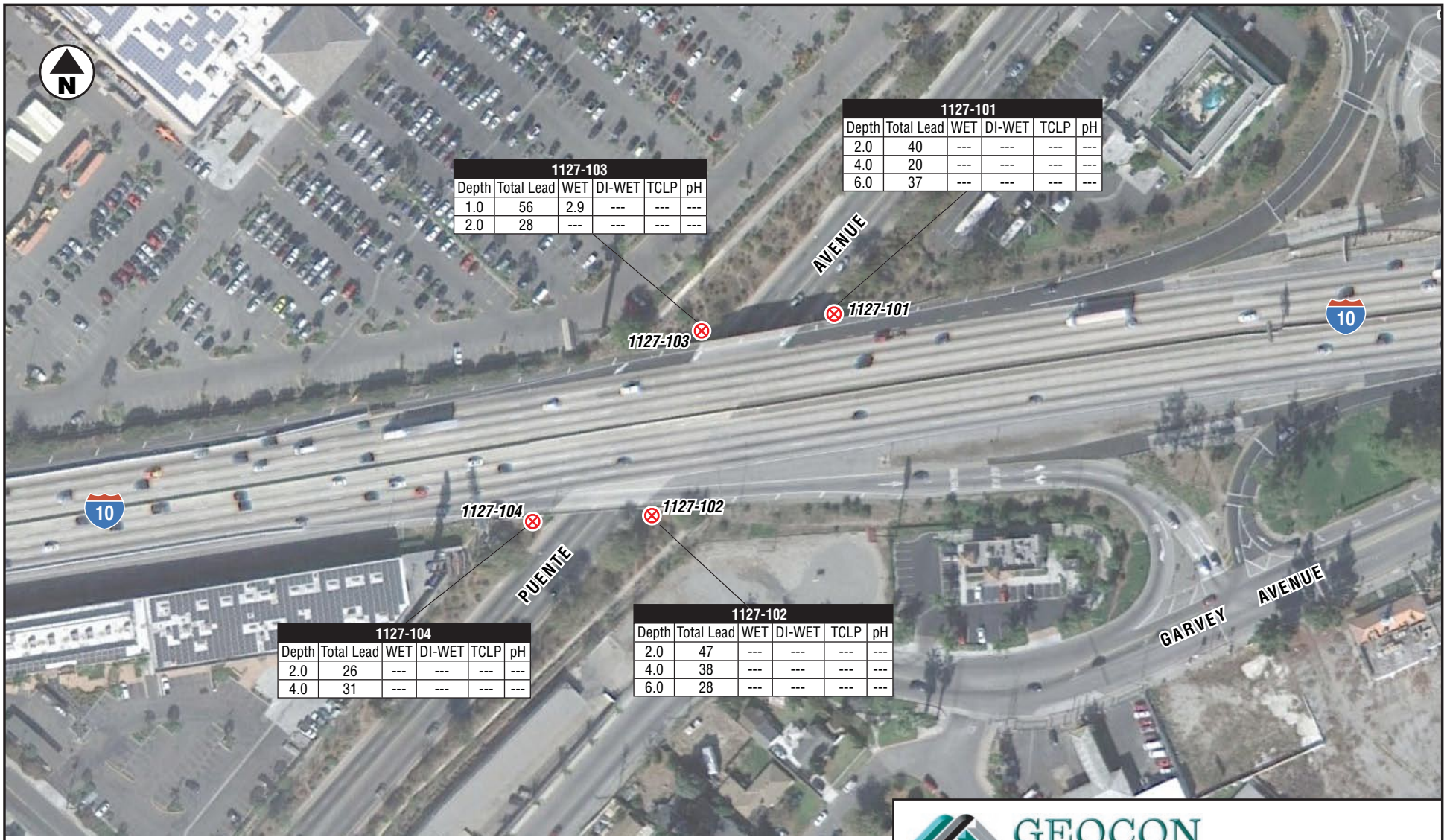
GEOCON Proj. No. S9500-06-04

Task Order No. 11

VICINITY MAP

May 2011

Figure 1



1127-103					
Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	56	2.9	---	---	---
2.0	28	---	---	---	---

1127-101					
Depth	Total Lead	WET	DI-WET	TCLP	pH
2.0	40	---	---	---	---
4.0	20	---	---	---	---
6.0	37	---	---	---	---

1127-104					
Depth	Total Lead	WET	DI-WET	TCLP	pH
2.0	26	---	---	---	---
4.0	31	---	---	---	---

1127-102					
Depth	Total Lead	WET	DI-WET	TCLP	pH
2.0	47	---	---	---	---
4.0	38	---	---	---	---
6.0	28	---	---	---	---

LEGEND:

⊗ Approximate Boring Location

Total Lead Results in mg/kg
WET, DI-WET, TCLP Results in mg/l
Depth in Feet
<0.21 = Not Detected at or above laboratory detection limit indicated
--- = Analysis not performed
J = Result qualified as an estimated value due to analytical bias in precision or accuracy

0 150
Scale in Feet

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Interstate 10 HOV Lane Widening Project

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1127-107

Depth	Total Lead	WET	DI-WET	TCLP	pH
2.0	9.7	---	---	---	---
4.0	8.1	---	---	---	---
6.0	12	---	---	---	---
9.0	4.8 J	---	---	---	---

1127-105

Depth	Total Lead	WET	DI-WET	TCLP	pH
2.0	120	4.2	---	0.30	8.4
4.0	11	---	---	---	---

1127-109

Depth	Total Lead	WET	DI-WET	TCLP	pH
2.0	4.6 J	---	---	---	---
4.0	2.5 J	---	---	---	---
6.0	2.4 J	---	---	---	---

1127-111

Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	14	---	---	---	---
2.0	4.2 J	---	---	---	---

1127-110

Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	11	---	---	---	---
2.0	10	---	---	---	---

1127-112

Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	13	---	---	---	---
2.0	8.6	---	---	---	---

1127-106

Depth	Total Lead	WET	DI-WET	TCLP	pH
2.0	20	---	---	---	---
4.0	11	---	---	---	---

LEGEND:

⊗ Approximate Boring Location

Total Lead Results in mg/kg
WET, DI-WET, TCLP Results in mg/l
Depth in Feet
<0.21 = Not Detected at or above laboratory detection limit indicated
--- = Analysis not performed
J = Result qualified as an estimated value due to analytical bias in precision or accuracy

0 150
Scale in Feet

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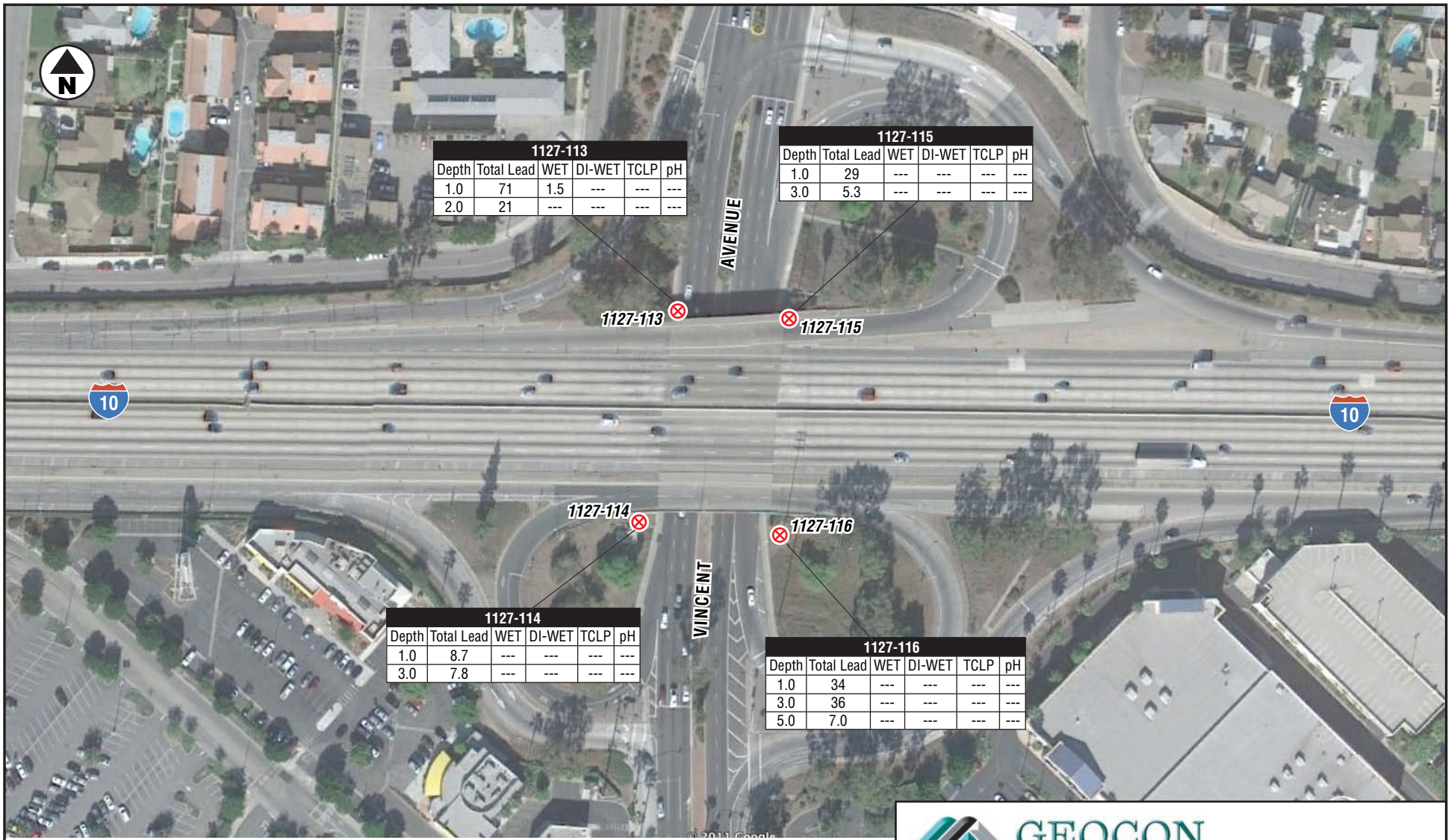
Task Order No. 11 | May 2011 | Figure 2-2



1127-113					
Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	71	1.5	---	---	---
2.0	21	---	---	---	---

1127-115					
Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	29	---	---	---	---
3.0	5.3	---	---	---	---

1127-114					
Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	8.7	---	---	---	---
3.0	7.8	---	---	---	---

1127-116					
Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	34	---	---	---	---
3.0	36	---	---	---	---
5.0	7.0	---	---	---	---

LEGEND:

⊗ Approximate Boring Location

Total Lead Results in mg/kg
WET, DI-WET, TCLP Results in mg/l
Depth in Feet
<0.21 = Not Detected at or above laboratory detection limit indicated
--- = Analysis not performed
J = Result qualified as an estimated value due to analytical bias in precision or accuracy

0 150
Scale in Feet

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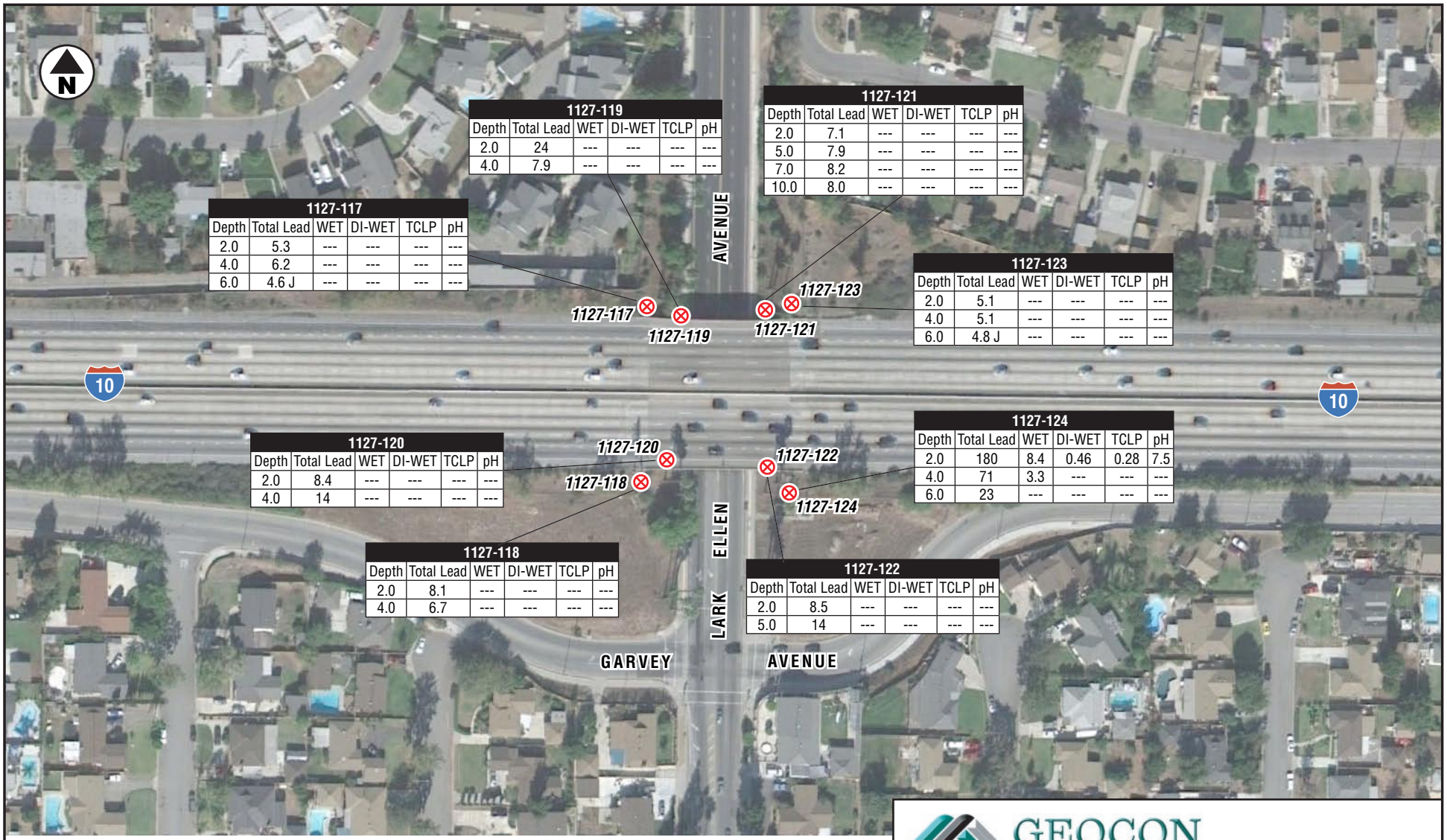
Task Order No. 11 | May 2011 | Figure 2-3



1127-117

Depth	Total Lead	WET	DI-WET	TCLP	pH
2.0	5.3	---	---	---	---
4.0	6.2	---	---	---	---
6.0	4.6 J	---	---	---	---

1127-118

Depth	Total Lead	WET	DI-WET	TCLP	pH
2.0	8.1	---	---	---	---
4.0	6.7	---	---	---	---

1127-119

Depth	Total Lead	WET	DI-WET	TCLP	pH
2.0	24	---	---	---	---
4.0	7.9	---	---	---	---

1127-120

Depth	Total Lead	WET	DI-WET	TCLP	pH
2.0	8.4	---	---	---	---
4.0	14	---	---	---	---

1127-121

Depth	Total Lead	WET	DI-WET	TCLP	pH
2.0	7.1	---	---	---	---
5.0	7.9	---	---	---	---
7.0	8.2	---	---	---	---
10.0	8.0	---	---	---	---

1127-122

Depth	Total Lead	WET	DI-WET	TCLP	pH
2.0	8.5	---	---	---	---
5.0	14	---	---	---	---

1127-123

Depth	Total Lead	WET	DI-WET	TCLP	pH
2.0	5.1	---	---	---	---
4.0	5.1	---	---	---	---
6.0	4.8 J	---	---	---	---

1127-124

Depth	Total Lead	WET	DI-WET	TCLP	pH
2.0	180	8.4	0.46	0.28	7.5
4.0	71	3.3	---	---	---
6.0	23	---	---	---	---

LEGEND:

⊗ Approximate Boring Location

Total Lead Results in mg/kg
WET, DI-WET, TCLP Results in mg/l
Depth in Feet
<0.21 = Not Detected at or above laboratory detection limit indicated
--- = Analysis not performed
J = Result qualified as an estimated value due to analytical bias in precision or accuracy

0 150
Scale in Feet

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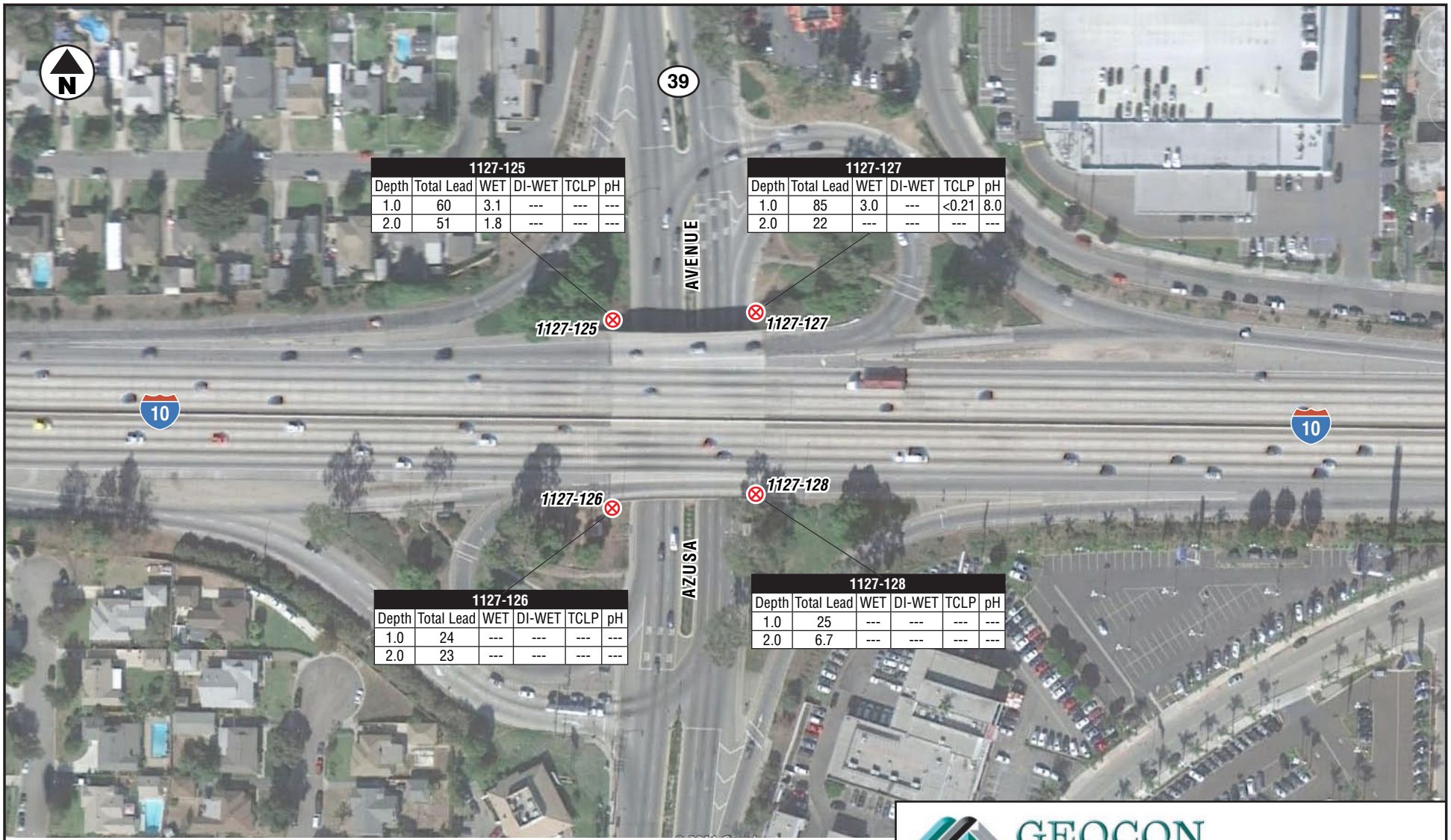
Task Order No. 11 | May 2011 | Figure 2-4



1127-125					
Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	60	3.1	---	---	---
2.0	51	1.8	---	---	---

1127-127					
Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	85	3.0	---	<0.21	8.0
2.0	22	---	---	---	---

1127-126					
Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	24	---	---	---	---
2.0	23	---	---	---	---

1127-128					
Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	25	---	---	---	---
2.0	6.7	---	---	---	---

LEGEND:

⊗ Approximate Boring Location

Total Lead Results in mg/kg
WET, DI-WET, TCLP Results in mg/l
Depth in Feet
<0.21 = Not Detected at or above laboratory detection limit indicated
--- = Analysis not performed
J = Result qualified as an estimated value due to analytical bias in precision or accuracy

0 150
Scale in Feet

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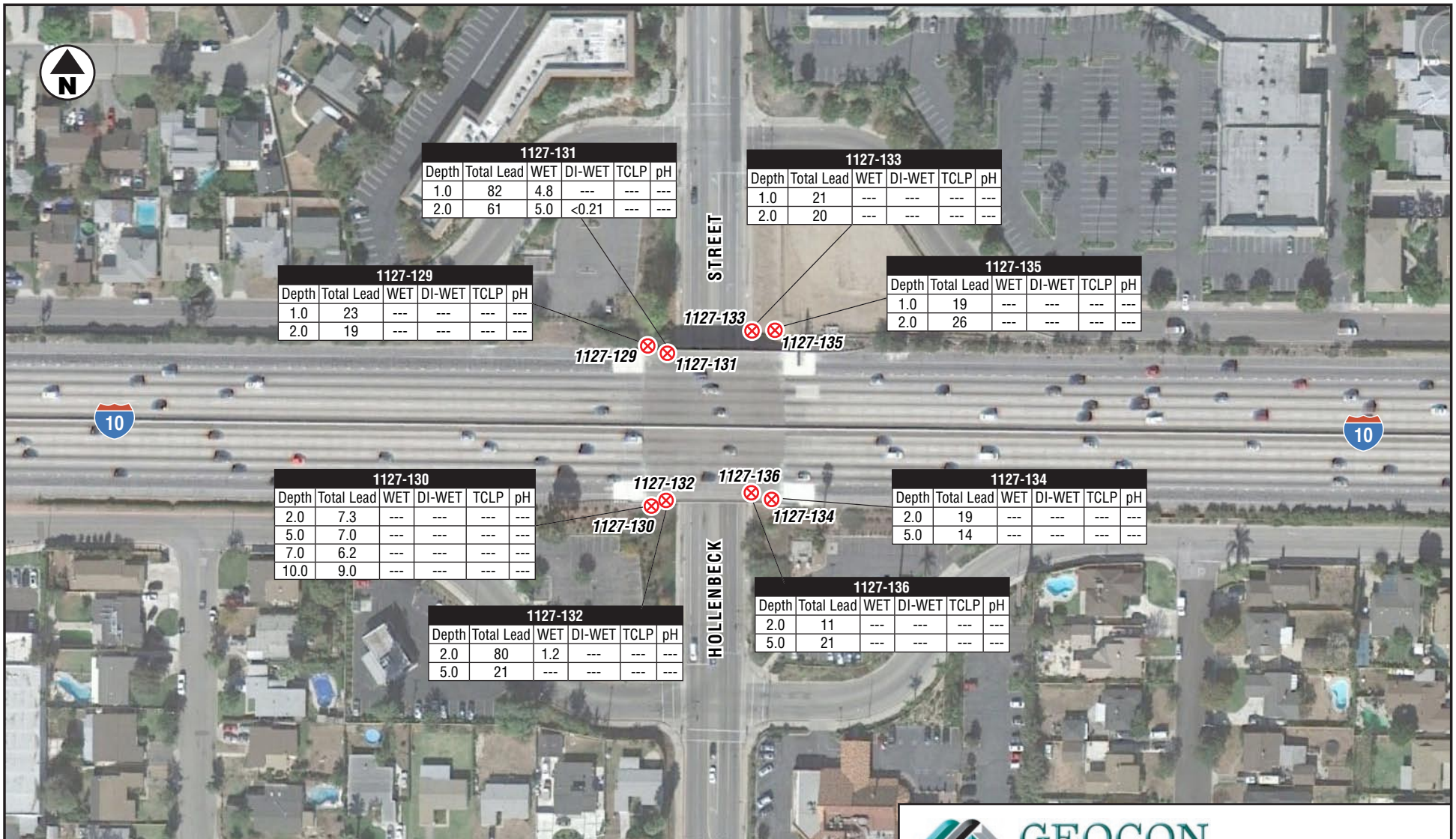
GEOCON Proj. No. S9500-06-04

Task Order No. 11 | May 2011 | Figure 2-5



1127-131

Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	82	4.8	---	---	---
2.0	61	5.0	<0.21	---	---

1127-133

Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	21	---	---	---	---
2.0	20	---	---	---	---

1127-129

Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	23	---	---	---	---
2.0	19	---	---	---	---

1127-135

Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	19	---	---	---	---
2.0	26	---	---	---	---

1127-130

Depth	Total Lead	WET	DI-WET	TCLP	pH
2.0	7.3	---	---	---	---
5.0	7.0	---	---	---	---
7.0	6.2	---	---	---	---
10.0	9.0	---	---	---	---

1127-134

Depth	Total Lead	WET	DI-WET	TCLP	pH
2.0	19	---	---	---	---
5.0	14	---	---	---	---

1127-132

Depth	Total Lead	WET	DI-WET	TCLP	pH
2.0	80	1.2	---	---	---
5.0	21	---	---	---	---

1127-136

Depth	Total Lead	WET	DI-WET	TCLP	pH
2.0	11	---	---	---	---
5.0	21	---	---	---	---

LEGEND:

⊗ Approximate Boring Location

Total Lead Results in mg/kg
WET, DI-WET, TCLP Results in mg/l
Depth in Feet
<0.21 = Not Detected at or above laboratory detection limit indicated
--- = Analysis not performed
J = Result qualified as an estimated value due to analytical bias in precision or accuracy

0 150
Scale in Feet

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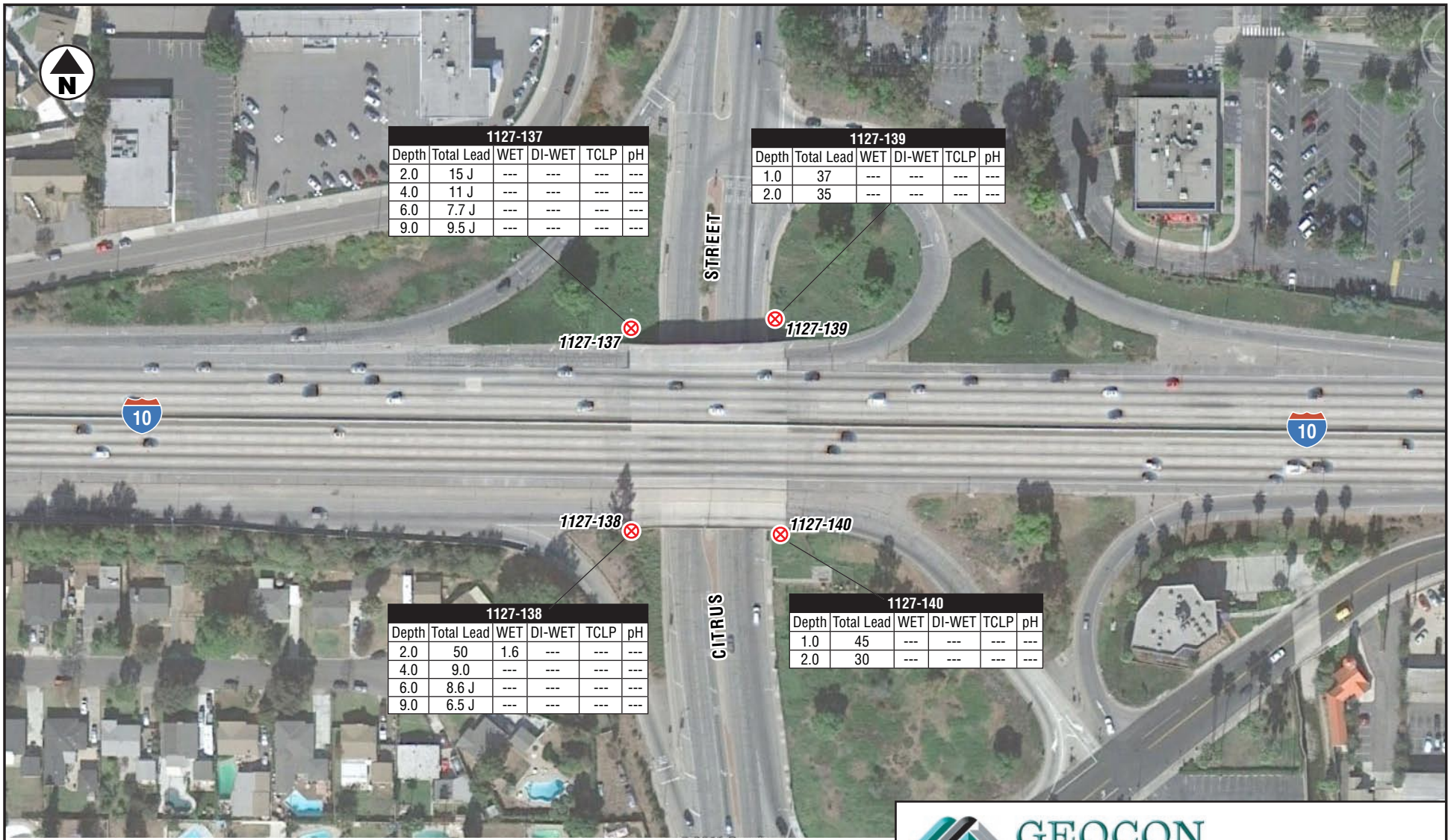
Task Order No. 11 | May 2011 | Figure 2-6



1127-137					
Depth	Total Lead	WET	DI-WET	TCLP	pH
2.0	15 J	---	---	---	---
4.0	11 J	---	---	---	---
6.0	7.7 J	---	---	---	---
9.0	9.5 J	---	---	---	---

1127-139					
Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	37	---	---	---	---
2.0	35	---	---	---	---

1127-138					
Depth	Total Lead	WET	DI-WET	TCLP	pH
2.0	50	1.6	---	---	---
4.0	9.0	---	---	---	---
6.0	8.6 J	---	---	---	---
9.0	6.5 J	---	---	---	---

1127-140					
Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	45	---	---	---	---
2.0	30	---	---	---	---

LEGEND:

⊗ Approximate Boring Location

Total Lead Results in mg/kg
WET, DI-WET, TCLP Results in mg/l
Depth in Feet
<0.21 = Not Detected at or above laboratory detection limit indicated
--- = Analysis not performed
J = Result qualified as an estimated value due to analytical bias in precision or accuracy

0 150
Scale in Feet

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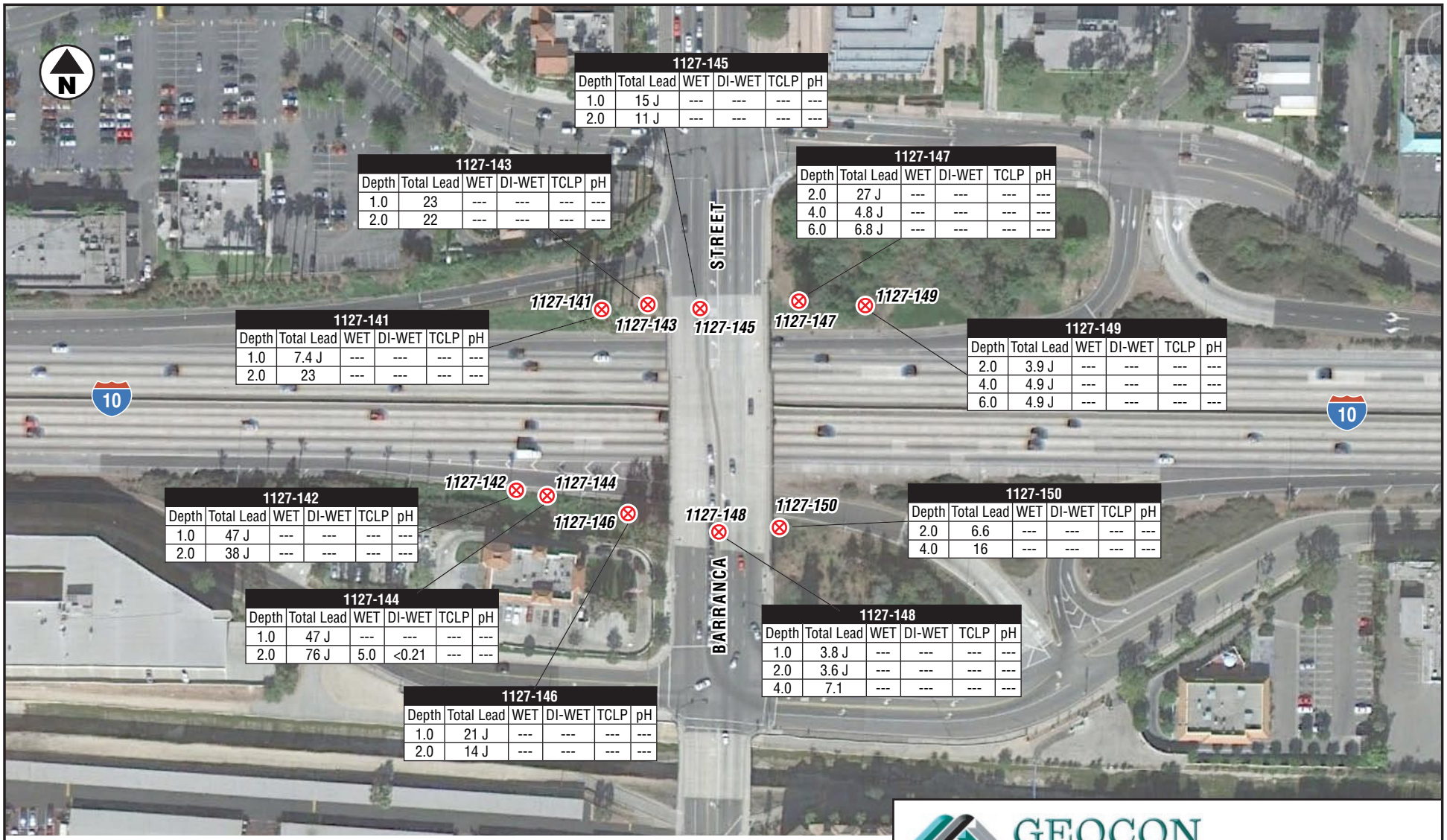

1127-145

Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	15 J	---	---	---	---
2.0	11 J	---	---	---	---

1127-143

Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	23	---	---	---	---
2.0	22	---	---	---	---

1127-147

Depth	Total Lead	WET	DI-WET	TCLP	pH
2.0	27 J	---	---	---	---
4.0	4.8 J	---	---	---	---
6.0	6.8 J	---	---	---	---

1127-141

Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	7.4 J	---	---	---	---
2.0	23	---	---	---	---

1127-149

Depth	Total Lead	WET	DI-WET	TCLP	pH
2.0	3.9 J	---	---	---	---
4.0	4.9 J	---	---	---	---
6.0	4.9 J	---	---	---	---

1127-142

Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	47 J	---	---	---	---
2.0	38 J	---	---	---	---

1127-150

Depth	Total Lead	WET	DI-WET	TCLP	pH
2.0	6.6	---	---	---	---
4.0	16	---	---	---	---

1127-144

Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	47 J	---	---	---	---
2.0	76 J	5.0	<0.21	---	---

1127-148

Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	3.8 J	---	---	---	---
2.0	3.6 J	---	---	---	---
4.0	7.1	---	---	---	---

1127-146

Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	21 J	---	---	---	---
2.0	14 J	---	---	---	---

LEGEND:

⊗ Approximate Boring Location

Total Lead Results in mg/kg
WET, DI-WET, TCLP Results in mg/l
Depth in Feet
<0.21 = Not Detected at or above laboratory detection limit indicated
--- = Analysis not performed
J = Result qualified as an estimated value due to analytical bias in precision or accuracy

0 150
Scale in Feet

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1127-152					
Depth	Total Lead	WET	DI-WET	TCLP	pH
2.0	43 J	---	---	---	---
4.0	6.0 J	---	---	---	---
6.0	7.5 J	---	---	---	---
8.0	6.0 J	---	---	---	---

1127-154					
Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	27	---	---	---	---
2.0	8.2	---	---	---	---

LEGEND:

⊗ Approximate Boring Location

Total Lead Results in mg/kg
WET, DI-WET, TCLP Results in mg/l
Depth in Feet

<0.21 = Not Detected at or above laboratory detection limit indicated
--- = Analysis not performed
J = Result qualified as an estimated value due to analytical bias in precision or accuracy

0 150
Scale in Feet

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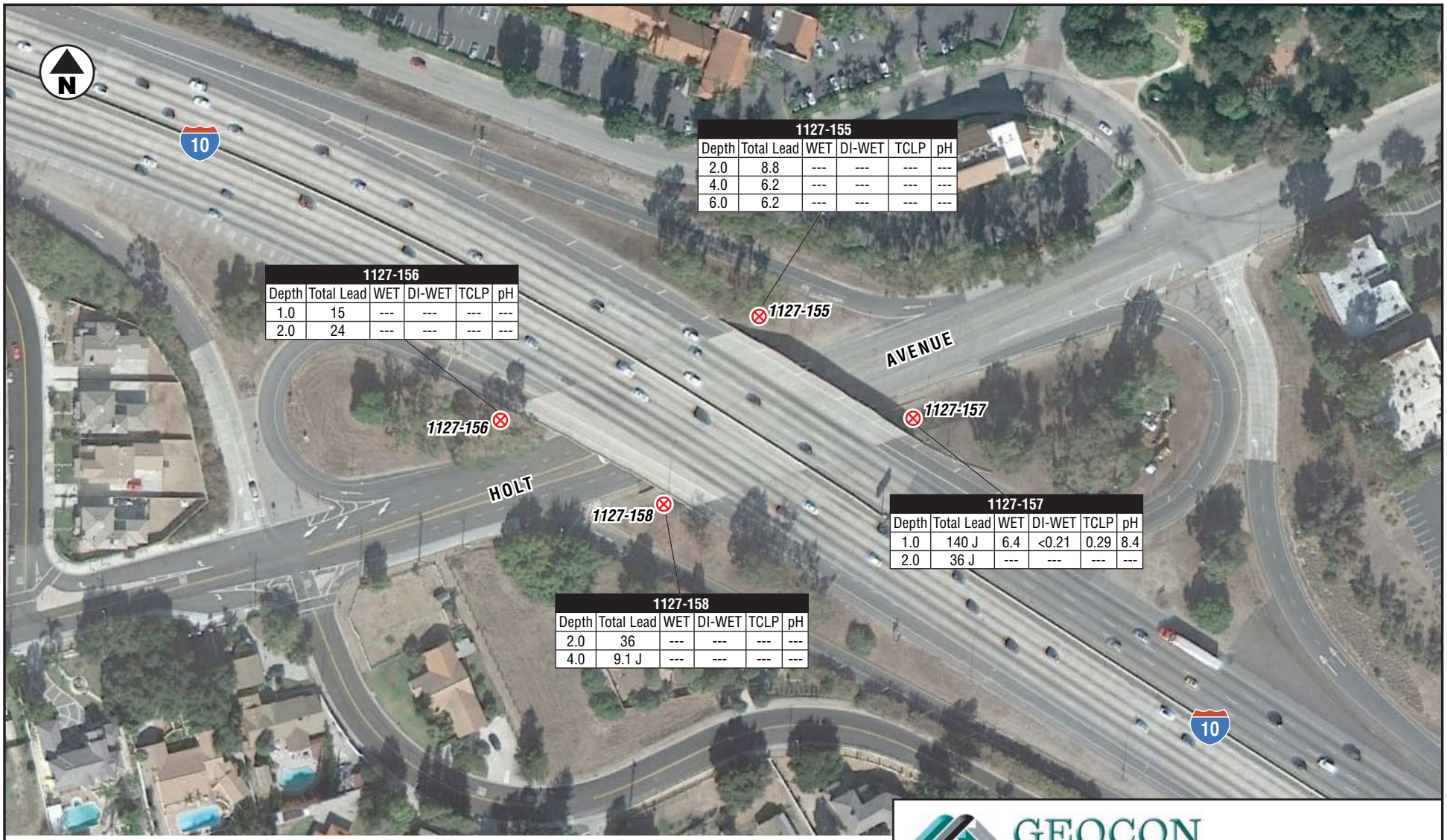

1127-155					
Depth	Total Lead	WET	DI-WET	TCLP	pH
2.0	8.8	---	---	---	---
4.0	6.2	---	---	---	---
6.0	6.2	---	---	---	---

1127-156					
Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	15	---	---	---	---
2.0	24	---	---	---	---

1127-157					
Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	140 J	6.4	<0.21	0.29	8.4
2.0	36 J	---	---	---	---

1127-158					
Depth	Total Lead	WET	DI-WET	TCLP	pH
2.0	36	---	---	---	---
4.0	9.1 J	---	---	---	---

LEGEND:

⊗ Approximate Boring Location

Total Lead Results in mg/kg
WET, DI-WET, TCLP Results in mg/l
Depth in Feet
<0.21 = Not Detected at or above laboratory detection limit indicated
--- = Analysis not performed
J = Result qualified as an estimated value due to analytical bias in precision or accuracy

0 150
Scale in Feet

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1127-209

Depth	Total Lead	WET	DI-WET	TCLP	pH
4.5	13	---	---	---	7.6
5.5	91	5.4	<0.21	<0.21	---
6.4	4.1	---	---	---	---
8.5	1.4	---	---	---	---
10.5	1.8	---	---	---	---

1127-211

Depth	Total Lead	WET	DI-WET	TCLP	pH
4.5	31	---	---	---	---
5.5	87	4.0	---	0.34	---
9.0	170 J	4.4	---	<0.21	---

1127-210

Depth	Total Lead	WET	DI-WET	TCLP	pH
4.5	7.9	---	---	---	---
5.5	86	5.5	<0.21	0.31	---
6.5	47	---	---	---	---
8.5	150	8.3	<0.21	0.21 J	8.0
10.0	64	6.4	<0.21	0.41	---

1127-212

Depth	Total Lead	WET	DI-WET	TCLP	pH
4.5	17 J	---	---	---	---
5.5	1.5 J	---	---	---	---
8.5	7.6 J	---	---	---	---
10.0	3.0 J	---	---	---	---

LEGEND:

⊗ Approximate Boring Location

Total Lead Results in mg/kg
WET, DI-WET, TCLP Results in mg/l
Depth in Feet
<0.21 = Not Detected at or above laboratory detection limit indicated
--- = Analysis not performed
J = Result qualified as an estimated value due to analytical bias in precision or accuracy

0 150
Scale in Feet

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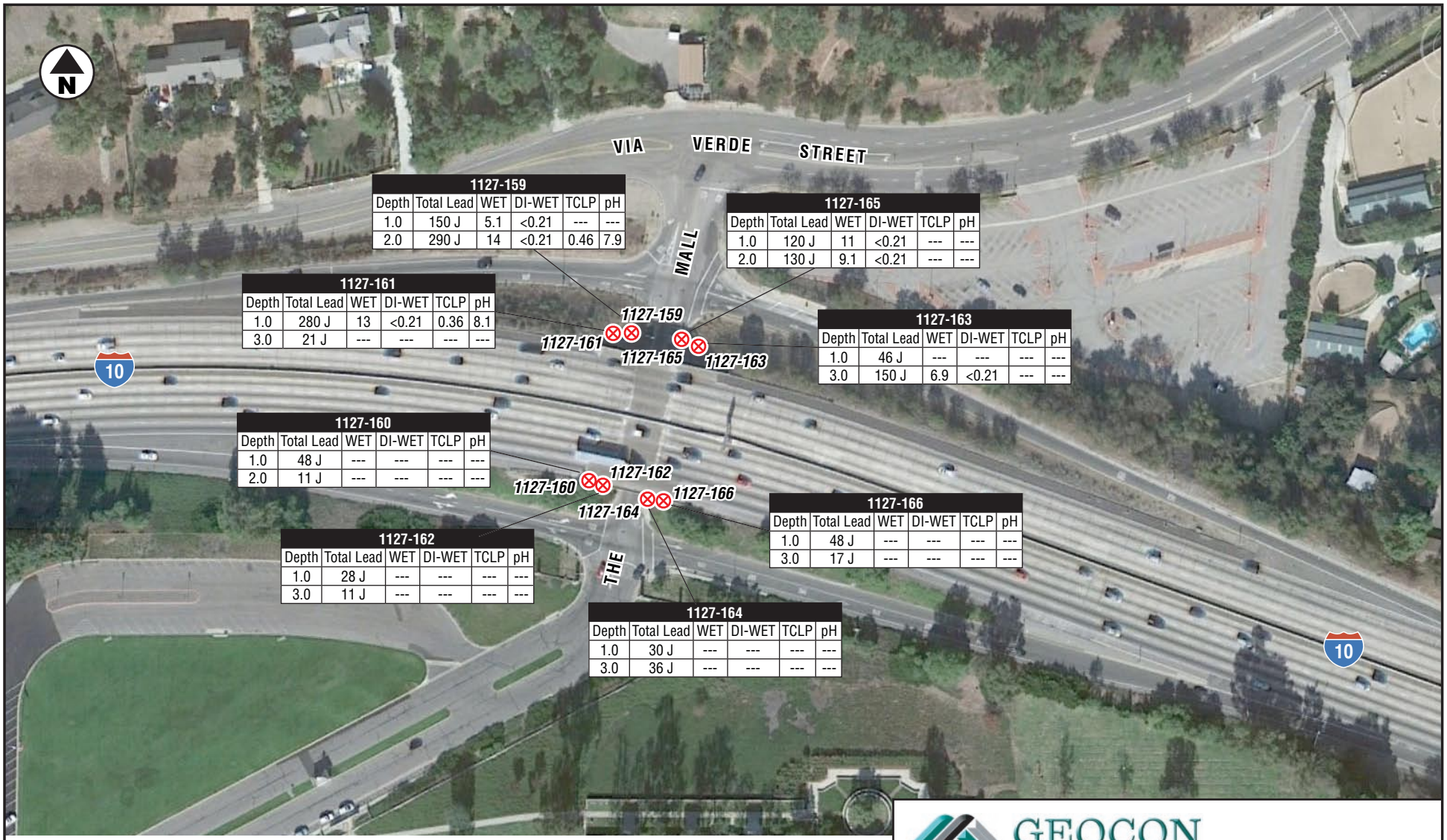
Task Order No. 11 | May 2011 | Figure 2-11



1127-159					
Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	150 J	5.1	<0.21	---	---
2.0	290 J	14	<0.21	0.46	7.9

1127-161					
Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	280 J	13	<0.21	0.36	8.1
3.0	21 J	---	---	---	---

1127-165					
Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	120 J	11	<0.21	---	---
2.0	130 J	9.1	<0.21	---	---

1127-163					
Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	46 J	---	---	---	---
3.0	150 J	6.9	<0.21	---	---

1127-160					
Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	48 J	---	---	---	---
2.0	11 J	---	---	---	---

1127-162					
Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	28 J	---	---	---	---
3.0	11 J	---	---	---	---

1127-166					
Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	48 J	---	---	---	---
3.0	17 J	---	---	---	---

1127-164					
Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	30 J	---	---	---	---
3.0	36 J	---	---	---	---

LEGEND:

⊗ Approximate Boring Location

Total Lead Results in mg/kg
WET, DI-WET, TCLP Results in mg/l
Depth in Feet
<0.21 = Not Detected at or above laboratory detection limit indicated
--- = Analysis not performed
J = Result qualified as an estimated value due to analytical bias in precision or accuracy

0 150
Scale in Feet

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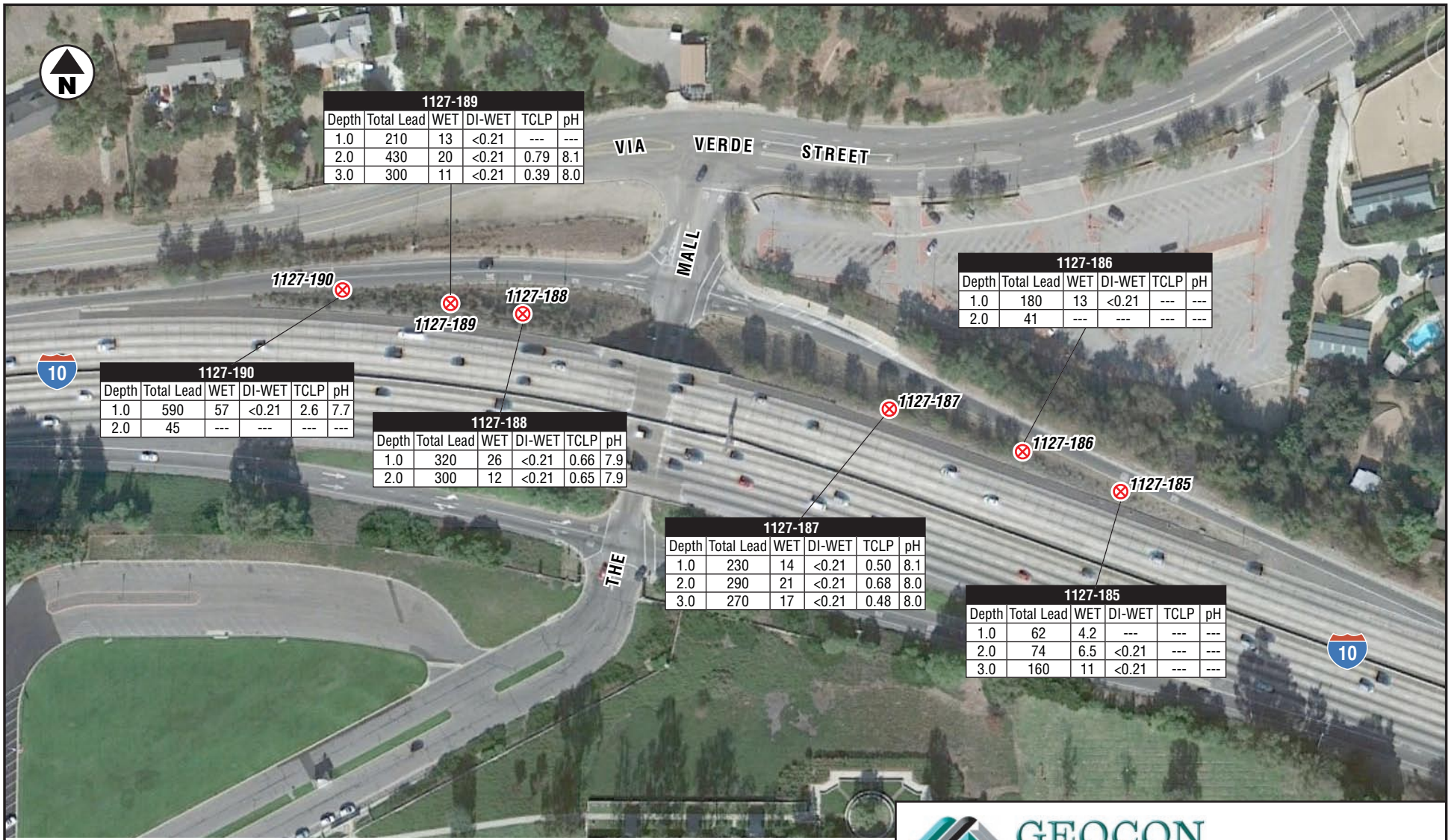
Task Order No. 11 | May 2011 | Figure 2-12a



1127-189					
Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	210	13	<0.21	---	---
2.0	430	20	<0.21	0.79	8.1
3.0	300	11	<0.21	0.39	8.0

1127-190					
Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	590	57	<0.21	2.6	7.7
2.0	45	---	---	---	---

1127-188					
Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	320	26	<0.21	0.66	7.9
2.0	300	12	<0.21	0.65	7.9

1127-187					
Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	230	14	<0.21	0.50	8.1
2.0	290	21	<0.21	0.68	8.0
3.0	270	17	<0.21	0.48	8.0

1127-186					
Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	180	13	<0.21	---	---
2.0	41	---	---	---	---

1127-185					
Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	62	4.2	---	---	---
2.0	74	6.5	<0.21	---	---
3.0	160	11	<0.21	---	---

LEGEND:

⊗ Approximate Boring Location

Total Lead Results in mg/kg
WET, DI-WET, TCLP Results in mg/l
Depth in Feet

<0.21 = Not Detected at or above laboratory detection limit indicated
--- = Analysis not performed
J = Result qualified as an estimated value due to analytical bias in precision or accuracy

0 150
Scale in Feet

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Task Order No. 11 | May 2011 | Figure 2-12b

1127-204

Depth	Total Lead	WET	DI-WET	TCLP	pH
3.5	0.87 J	---	---	---	---
4.5	0.57 J	---	---	---	---
5.5	1.2 J	---	---	---	7.8
6.0	1.3 J	---	---	---	---
6.5	1.3 J	---	---	---	---

1127-205

Depth	Total Lead	WET	DI-WET	TCLP	pH
2.5	0.64 J	---	---	---	---
3.0	0.88 J	---	---	---	---
3.5	1.6 J	---	---	---	8.2

1127-203

Depth	Total Lead	WET	DI-WET	TCLP	pH
3.5	1.1 J	---	---	---	---
4.5	1.4 J	---	---	---	---
5.5	0.69 J	---	---	---	---
6.5	0.79 J	---	---	---	---
7.5	0.79 J	---	---	---	---
10.5	0.37 J	---	---	---	---

1127-208

Depth	Total Lead	WET	DI-WET	TCLP	pH
3.4	1.4 J	---	---	---	7.6
4.5	1.5 J	---	---	---	---
5.5	0.9 J	---	---	---	---
6.5	0.48 J	---	---	---	---
7.5	0.42 J	---	---	---	---
10.5	0.70 J	---	---	---	---

1127-206

Depth	Total Lead	WET	DI-WET	TCLP	pH
2.5	0.39 J	---	---	---	8.2
3.0	0.72 J	---	---	---	---
3.5	0.61 J	---	---	---	---

1127-207

Depth	Total Lead	WET	DI-WET	TCLP	pH
4.5	1.0 J	---	---	---	---
5.5	0.52 J	---	---	---	---
6.5	2.0 J	---	---	---	---
7.0	3.2 J	---	---	---	---
10.5	0.25 J	---	---	---	7.6

1127-202

Depth	Total Lead	WET	DI-WET	TCLP	pH
3.5	1.2 J	---	---	---	8.3
4.5	1.1 J	---	---	---	---
5.0	0.91 J	---	---	---	---
5.5	1.4 J	---	---	---	---

1127-201

Depth	Total Lead	WET	DI-WET	TCLP	pH
3.5	0.9 J	---	---	---	---
4.5	0.44 J	---	---	---	---
5.5	0.80 J	---	---	---	---
6.5	0.81 J	---	---	---	---
7.5	1.4 J	---	---	---	---
10.5	0.60 J	---	---	---	---

LEGEND:

⊗ Approximate Boring Location

Total Lead Results in mg/kg
WET, DI-WET, TCLP Results in mg/l
Depth in Feet
<0.21 = Not Detected at or above laboratory detection limit indicated
--- = Analysis not performed
J = Result qualified as an estimated value due to analytical bias in precision or accuracy

0 150
Scale in Feet

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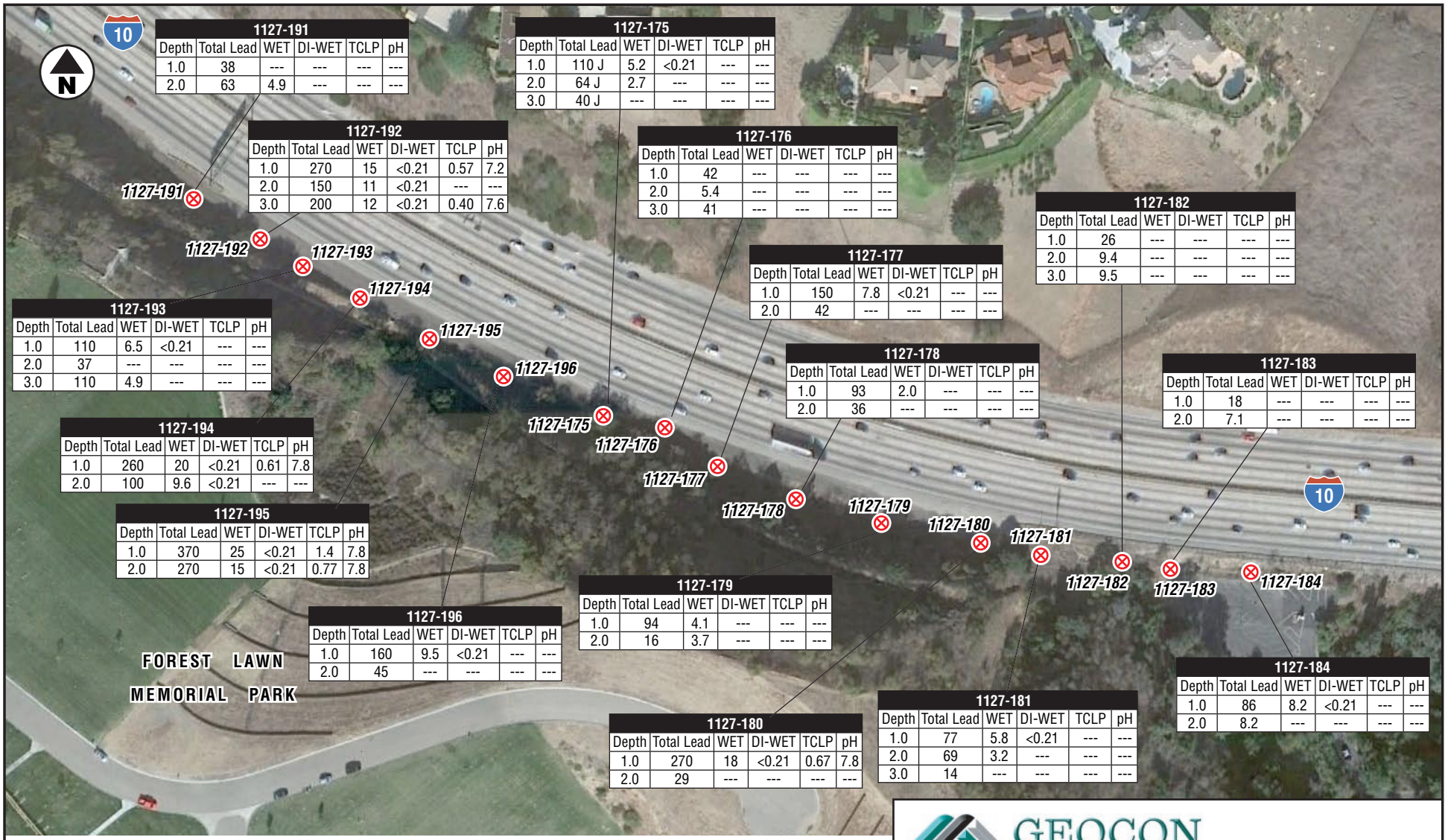
Task Order No. 11 | May 2011 | Figure 2-13a



1127-191

Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	38	---	---	---	---
2.0	63	4.9	---	---	---

1127-192

Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	270	15	<0.21	0.57	7.2
2.0	150	11	<0.21	---	---
3.0	200	12	<0.21	0.40	7.6

1127-193

Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	110	6.5	<0.21	---	---
2.0	37	---	---	---	---
3.0	110	4.9	---	---	---

1127-194

Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	260	20	<0.21	0.61	7.8
2.0	100	9.6	<0.21	---	---

1127-195

Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	370	25	<0.21	1.4	7.8
2.0	270	15	<0.21	0.77	7.8

1127-196

Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	160	9.5	<0.21	---	---
2.0	45	---	---	---	---

1127-175

Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	110 J	5.2	<0.21	---	---
2.0	64 J	2.7	---	---	---
3.0	40 J	---	---	---	---

1127-176

Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	42	---	---	---	---
2.0	5.4	---	---	---	---
3.0	41	---	---	---	---

1127-177

Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	150	7.8	<0.21	---	---
2.0	42	---	---	---	---

1127-178

Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	93	2.0	---	---	---
2.0	36	---	---	---	---

1127-179

Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	94	4.1	---	---	---
2.0	16	3.7	---	---	---

1127-180

Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	270	18	<0.21	0.67	7.8
2.0	29	---	---	---	---

1127-181

Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	77	5.8	<0.21	---	---
2.0	69	3.2	---	---	---
3.0	14	---	---	---	---

1127-182

Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	26	---	---	---	---
2.0	9.4	---	---	---	---
3.0	9.5	---	---	---	---

1127-183

Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	18	---	---	---	---
2.0	7.1	---	---	---	---

1127-184

Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	86	8.2	<0.21	---	---
2.0	8.2	---	---	---	---

LEGEND:

⊗ Approximate Boring Location

Total Lead Results in mg/kg
WET, DI-WET, TCLP Results in mg/l
Depth in Feet

<0.21 = Not Detected at or above laboratory detection limit indicated
--- = Analysis not performed
J = Result qualified as an estimated value due to analytical bias in precision or accuracy

0 150
Scale in Feet

GEOCON CONSULTANTS, INC.
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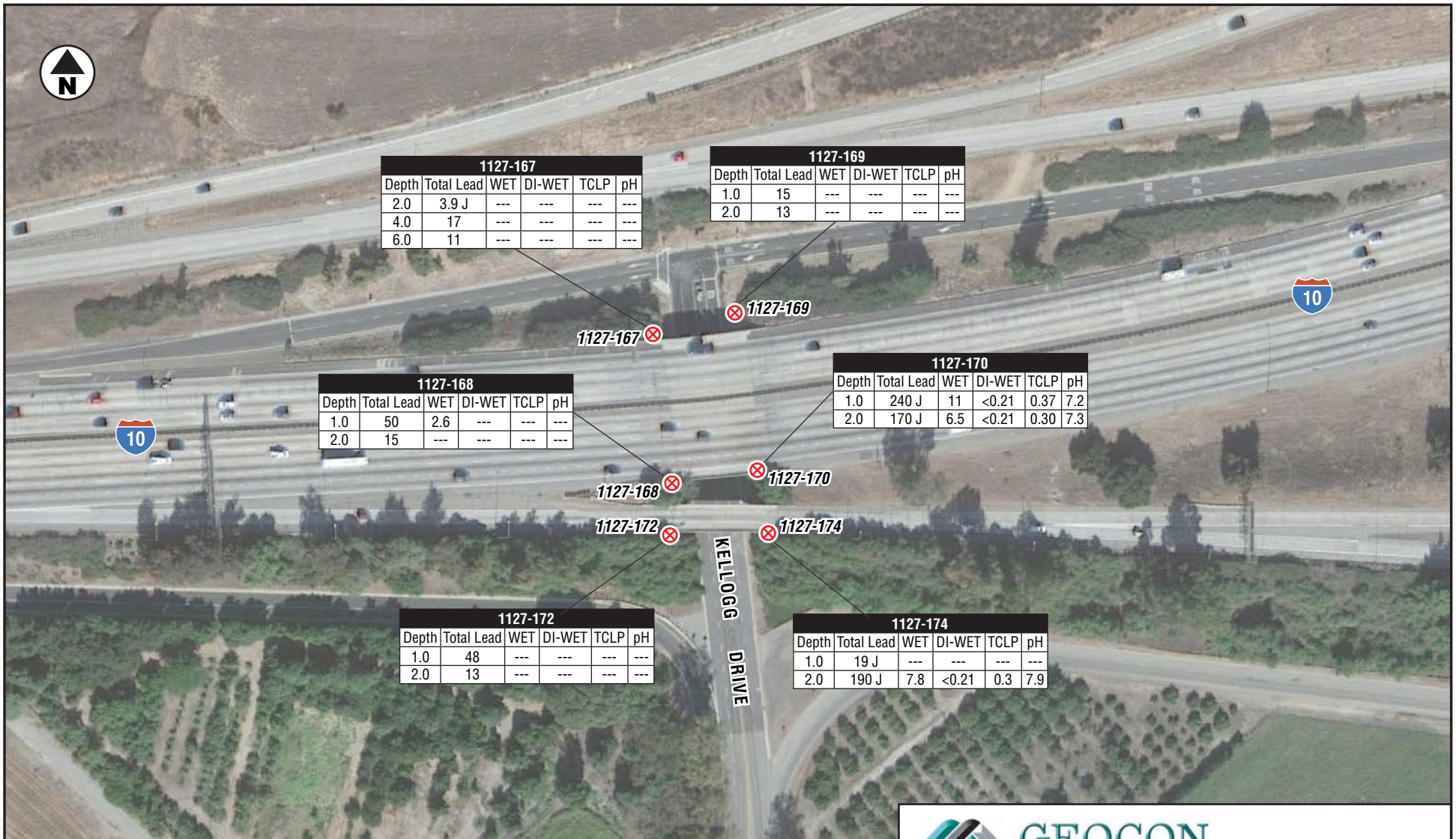
Interstate 10 HOV Lane Widening Project

Los Angeles County, California

SITE PLAN

GEOCON Proj. No. S9500-06-04

Task Order No. 11 | May 2011 | Figure 2-13b



1127-167

Depth	Total Lead	WET	DI-WET	TCLP	pH
2.0	3.9 J	---	---	---	---
4.0	17	---	---	---	---
6.0	11	---	---	---	---

1127-169

Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	15	---	---	---	---
2.0	13	---	---	---	---

1127-168

Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	50	2.6	---	---	---
2.0	15	---	---	---	---

1127-170

Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	240 J	11	<0.21	0.37	7.2
2.0	170 J	6.5	<0.21	0.30	7.3

1127-172

Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	48	---	---	---	---
2.0	13	---	---	---	---

1127-174

Depth	Total Lead	WET	DI-WET	TCLP	pH
1.0	19 J	---	---	---	---
2.0	190 J	7.8	<0.21	0.3	7.9

LEGEND:

⊗ Approximate Boring Location

Total Lead Results in mg/kg
WET, DI-WET, TCLP Results in mg/l
Depth in Feet
<0.21 = Not Detected at or above laboratory detection limit indicated
--- = Analysis not performed
J = Result qualified as an estimated value due to analytical bias in precision or accuracy

0 150
Scale in Feet

GEOCON CONSULTANTS, INC.
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Interstate 10 HOV Lane Widening Project

Los Angeles County, California

SITE PLAN

GEOCON Proj. No. S9500-06-04

Task Order No. 11 | May 2011 | Figure 2-14

TABLE 1
BORING COORDINATES AND SUMMARY OF LEAD AND pH ANALYTICAL RESULTS
SEGMENT 2 - EA. 1170U1
ROUTE 10 HOV LANE WIDENING PROJECT FROM PUENTE AVENUE TO STATE ROUTE 57
LOS ANGELES, CALIFORNIA

Sample ID	LATITUDE	LONGITUDE	Sample Depth (feet)	Total Lead (mg/kg)	WET Lead (mg/l)	DI-WET Lead (mg/l)	TCLP Lead (mg/l)	pH
PUENTE AVENUE								
1127-101-1.5-2.0	34.07043351	-117.96157542	1.5-2.0	40				
1127-101-3.5-4.0			3.5-4.0	20				
1127-101-5.5-6.0			5.5-6.0	37				
1127-102-1.5-2.0	34.06985244	-117.96220889	1.5-2.0	47				
1127-102-3.5-4.0			3.5-4.0	38				
1127-102-5.5-6.0			5.5-6.0	28				
1127-103-0.5-1.0	34.07038427	-117.96203616	0.5-1.0	56	2.9			
1127-103-1.5-2.0			1.5-2.0	28				
1127-104-1.5-2.0	34.06983659	-117.96261951	1.5-2.0	26				
1127-104-3.5-4.0			3.5-4.0	31				
CAMERON AVENUE								
1127-105-1.5-2.0	34.07212923	-117.94599131	1.5-2.0	120	4.2		0.30	8.4
1127-105-3.5-4.0			3.5-4.0	11				
1127-106-1.5-2.0	34.07158722	-117.94569837	1.5-2.0	20				
1127-106-3.5-4.0			3.5-4.0	11				
1127-107-1.5-2.0	34.07207413	-117.94630322	1.5-2.0	9.7				
1127-107-3.5-4.0			3.5-4.0	8.1				
1127-107-5.5-6.0			5.5-6.0	12				
1127-107-8.5-9.0			8.5-9.0	4.8 J				
WEST COVINA PARKWAY								
1127-109-1.5-2.0	34.07241459	-117.94346664	1.5-2.0	4.6 J				
1127-109-3.5-4.0			3.5-4.0	2.5 J				
1127-109-5.5-6.0			5.5-6.0	2.4 J				
1127-110-0.5-1.0	34.07189971	-117.94276056	0.5-1.0	11				
1127-110-1.5-2.0			1.5-2.0	10				
1127-111-0.5-1.0	34.07245784	-117.94290573	0.5-1.0	14				
1127-111-1.5-2.0			1.5-2.0	4.2 J				
1127-112-0.5-1.0	34.07200082	-117.94218986	0.5-1.0	13				
1127-112-1.5-2.0			1.5-2.0	8.6				
VINCENT AVENUE								
1127-113-0.5-1.0	34.07260753	-117.92681268	0.5-1.0	71	1.5			
1127-113-1.5-2.0			1.5-2.0	21				
1127-114-0.5-1.0	34.07200204	-117.92694695	0.5-1.0	8.7				
1127-114-2.5-3.0			2.5-3.0	7.8				
1127-115-0.5-1.0	34.07258095	-117.92643252	0.5-1.0	29				
1127-115-2.5-3.0			2.5-3.0	5.3				
1127-116-0.5-1.0	34.07196660	-117.92646347	0.5-1.0	34				
1127-116-2.5-3.0			2.5-3.0	36				
1127-116-4.5-5.0			4.5-5.0	7.0				

TABLE 1
BORING COORDINATES AND SUMMARY OF LEAD AND pH ANALYTICAL RESULTS
SEGMENT 2 - EA. 1170U1
ROUTE 10 HOV LANE WIDENING PROJECT FROM PUENTE AVENUE TO STATE ROUTE 57
LOS ANGELES, CALIFORNIA

Sample ID	LATITUDE	LONGITUDE	Sample Depth (feet)	Total Lead (mg/kg)	WET Lead (mg/l)	DI-WET Lead (mg/l)	TCLP Lead (mg/l)	pH
LARK ELLEN AVENUE								
1127-117-1.5-2.0	34.07247576	-117.91680081	1.5-2.0	5.3				
1127-117-3.5-4.0			3.5-4.0	6.2				
1127-117-5.5-6.0			5.5-6.0	4.6 J				
1127-118-1.5-2.0	34.07197829	-117.91682134	1.5-2.0	8.1				
1127-118-3.5-4.0			3.5-4.0	6.7				
1127-119-1.5-2.0	34.07245157	-117.91668779	1.5-2.0	24				
1127-119-3.5-4.0			3.5-4.0	7.9				
1127-120-1.5-2.0	34.07204013	-117.91673468	1.5-2.0	8.4				
1127-120-3.5-4.0			3.5-4.0	14				
1127-121-1.5-2.0	34.07246650	-117.91639194	1.5-2.0	7.1				
1127-121-4.5-5.0			4.5-5.0	7.9				
1127-121-6.5-7.0			6.5-7.0	8.2				
1127-121-9.5-10.0			9.5-10.0	8.0				
1127-122-1.5-2.0	34.07201858	-117.91638699	1.5-2.0	8.5				
1127-122-4.5-5.0			4.5-5.0	14				
1127-123-1.5-2.0	34.07248389	-117.91630554	1.5-2.0	5.1				
1127-123-3.5-4.0			3.5-4.0	5.1				
1127-123-5.5-6.0			5.5-6.0	4.8 J				
1127-124-1.5-2.0	34.07194696	-117.91631381	1.5-2.0	180	8.4	0.46	0.28	7.5
1127-124-3.5-4.0			3.5-4.0	71	3.3			
1127-124-5.5-6.0			5.5-6.0	23				
AZUSA AVENUE								
1127-125-0.5-1.0	34.07242974	-117.90788611	0.5-1.0	60	3.1			
1127-125-1.5-2.0			1.5-2.0	51	1.8			
1127-126-0.5-1.0	34.07189209	-117.90788884	0.5-1.0	24				
1127-126-1.5-2.0			1.5-2.0	23				
1127-127-0.5-1.0	34.07245209	-117.90739508	0.5-1.0	85	3.0		<0.21	8.0
1127-127-1.5-2.0			1.5-2.0	22				
1127-128-0.5-1.0	34.07193039	-117.90739259	0.5-1.0	25				
1127-128-1.5-2.0			1.5-2.0	6.7				

TABLE 1
BORING COORDINATES AND SUMMARY OF LEAD AND pH ANALYTICAL RESULTS
SEGMENT 2 - EA. 1170U1
ROUTE 10 HOV LANE WIDENING PROJECT FROM PUENTE AVENUE TO STATE ROUTE 57
LOS ANGELES, CALIFORNIA

Sample ID	LATITUDE	LONGITUDE	Sample Depth (feet)	Total Lead (mg/kg)	WET Lead (mg/l)	DI-WET Lead (mg/l)	TCLP Lead (mg/l)	pH
HOLLENBECK STREET								
1127-129-0.5-1.0	34.07228588	-117.89912371	0.5-1.0	23				
1127-129-1.5-2.0			1.5-2.0	19				
1127-130-1.5-2.0	34.07183454	-117.89911138	1.5-2.0	7.3				
1127-130-4.5-5.0			4.5-5.0	7.0				
1127-130-6.5-7.0			6.5-7.0	6.2				
1127-130-9.5-10.0			9.5-10.0	9.0				
1127-131-0.5-1.0	34.07226661	-117.89905809	0.5-1.0	82	4.8			
1127-131-1.5-2.0			1.5-2.0	61	5.0	<0.21		
1127-132-1.5-2.0	34.07184939	-117.89906220	1.5-2.0	80	1.2			
1127-132-4.5-5.0			4.5-5.0	21				
1127-133-0.5-1.0	34.07233032	-117.89876540	0.5-1.0	21				
1127-133-1.5-2.0			1.5-2.0	20				
1127-134-1.5-2.0	34.07187059	-117.89877021	1.5-2.0	19				
1127-134-4.5-5.0			4.5-5.0	14				
1127-135-0.5-1.0	34.07233026	-117.89869009	0.5-1.0	19				
1127-135-1.5-2.0			1.5-2.0	26				
1127-136-1.5-2.0	34.07185078	-117.89870235	1.5-2.0	11				
1127-136-4.5-5.0			4.5-5.0	21				

Notes:

mg/kg = Milligram per kilogram
mg/l = Milligram per liter
WET = Waste Extraction Test using citric acid as the extraction fluid
DI-WET = Waste Extraction Test using water as the extraction fluid
TCLP = Toxicity Characteristic Leaching Procedure
< = Analyte was not detected above the laboratory reporting limit
J = Result qualified as an estimated value due to analytical bias in precision or accuracy

TABLE 2
SUMMARY OF TITLE 22 METALS ANALYTICAL RESULTS
SEGMENT 2 - EA. 1170U1
INTERSTATE 10 HOV LANE WIDENING PROJECT FROM PUENTE AVENUE TO STATE ROUTE 57
LOS ANGELES, CALIFORNIA

Sample ID	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
1127-105-1.5-2.0	0.33 J	<0.20	92	<0.042	0.48 J	13	8.1	17	120	0.042 J	<0.097	12	<0.28	<0.042	<0.098	30	61
1127-124-1.5-2.0	0.47 J	<0.20	96	<0.042	0.46 J	12	8.4	18	180	0.049 J	<0.097	10	<0.28	<0.042	<0.098	31	61 J
1127-127-1.0	1.4 J	<0.20	120	<0.042	0.68 J	15	9.3	29	85	0.080 J	<0.097	13	<0.28	<0.042	<0.098	34	200 J
TTLC	500	500	10,000	75	100	2,500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
STLC	15	5.0	100	0.75	1.0	5	80	25	5.0	0.2	350	20	1.0	5	7.0	24	250
CHHSLs Ind/ Res	380/ 30	0.24/ 0.07	6,300/ 5,200	190/ 16	7.5/ 1.7	10,000/ 10,000	3,200/ 600	38,000/ 3,000	320/ 80	180/ 18	4,800/ 380	16,000/ 1,600	4,800/ 380	4,800/ 380	63/ 5.0	6,700/ 530	100,000/ 23,000
Background Concentrations																	
Minimum	0.15	0.6	133	0.25	0.05	23	2.7	9.1	12.4	0.05	0.10	9	0.015	0.1	5.3	39	88
Maximum	1.95	12.0	1,400	2.70	1.7	1,579	46.9	96.4	97.1	0.90	9.6	509	0.43	8.3	36.2	288	236
Mean	0.60	3.5	509	1.28	0.36	122	14.9	28.7	23.9	0.26	1.3	57	0.058	0.8	15.7	112	149

Notes:
Results shown in milligrams per kilogram
< = Not detected above the laboratory reporting limit
J = Result qualified as an estimated value due to analytical bias in precision or accuracy
TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration
CHHSLs = California Environmental Protection Agency, California Human Health Screening Levels for industrial (Ind) and residential (Res) use
TTLC, STLC, and CHHSLs shown for chromium are for chromium III.
Background Concentrations of Trace and Major Elements in California Soils
(Kearney Foundation of Soil Science, Division of Agriculture and Natural Resources, University of California, March 1996)
Maximum arsenic background concentration source -*Determination of a Southern California Regional Background Arsenic Concentration in Soil*, DTSC March 2008

TABLE 3
BORING COORDINATES AND SUMMARY OF LEAD AND pH ANALYTICAL RESULTS
SEGMENT 3 - EA. 119341
INTERSTATE 10 HOV LANE WIDENING PROJECT FROM PUENTE AVENUE TO STATE ROUTE 57
LOS ANGELES, CALIFORNIA

Sample ID	LATITUDE	LONGITUDE	Sample Depth (feet)	Total Lead (mg/kg)	WET Lead (mg/l)	DI-WET Lead (mg/l)	TCLP Lead (mg/l)	pH
CITRUS STREET								
1127-137-1.5-2.0	34.07224537	-117.89046474	1.5-2.0	15 J				
1127-137-3.5-4.0			3.5-4.0	11 J				
1127-137-5.5-6.0			5.5-6.0	7.7 J				
1127-137-8.5-9.0			8.5-9.0	9.5 J				
1127-138-1.5-2.0	34.07167381	-117.89046219	1.5-2.0	50	1.6			
1127-138-3.5-4.0			3.5-4.0	9.0				
1127-138-5.5-6.0			5.5-6.0	8.6 J				
1127-138-8.5-9.0			8.5-9.0	6.5 J				
1127-139-0.5-1.0	34.07227211	-117.88997471	0.5-1.0	37				
1127-139-1.5-2.0			1.5-2.0	35				
1127-140-0.5-1.0	34.07166253	-117.88995475	0.5-1.0	45				
1127-140-1.5-2.0			1.5-2.0	30				
BARRANCA STREET								
1127-141-0.5-1.0	34.07216165	-117.88165969	0.5-1.0	7.4 J				
1127-141-1.5-2.0			1.5-2.0	23				
1127-142-0.5-1.0	34.07165000	-117.88195628	0.5-1.0	47 J				
1127-142-1.5-2.0			1.5-2.0	38 J				
1127-143-0.5-1.0	34.07217502	-117.88149912	0.5-1.0	23				
1127-143-1.5-2.0			1.5-2.0	22				
1127-144-0.5-1.0	34.07163307	-117.88184895	0.5-1.0	47 J				
1127-144-1.5-2.0			1.5-2.0	76 J	5.0	<0.21		
1127-145-0.5-1.0	34.07216361	-117.88132163	0.5-1.0	15 J				
1127-145-1.5-2.0			1.5-2.0	11 J				
1127-146-0.5-1.0	34.07158124	-117.88156899	0.5-1.0	21 J				
1127-146-1.5-2.0			1.5-2.0	14 J				
1127-147-1.5-2.0	34.07218586	-117.88098479	1.5-2.0	27 J				
1127-147-3.5-4.0			3.5-4.0	4.8 J				
1127-147-5.5-6.0			5.5-6.0	6.8 J				
1127-148-0.5-1.0	34.07153264	-117.88125868	0.5-1.0	3.8 J				
1127-148-1.5-2.0			1.5-2.0	3.6 J				
1127-148-3.5-4.0			3.5-4.0	7.1				
1127-149-1.5-2.0	34.07217452	-117.88075675	1.5-2.0	3.9 J				
1127-149-3.5-4.0			3.5-4.0	4.9 J				
1127-149-5.5-6.0			5.5-6.0	4.9 J				
1127-150-1.5-2.0	34.07154365	-117.88105287	1.5-2.0	6.6				
1127-150-3.5-4.0			3.5-4.0	16				

TABLE 3
BORING COORDINATES AND SUMMARY OF LEAD AND pH ANALYTICAL RESULTS
SEGMENT 3 - EA. 119341
INTERSTATE 10 HOV LANE WIDENING PROJECT FROM PUENTE AVENUE TO STATE ROUTE 57
LOS ANGELES, CALIFORNIA

Sample ID	LATITUDE	LONGITUDE	Sample Depth (feet)	Total Lead (mg/kg)	WET Lead (mg/l)	DI-WET Lead (mg/l)	TCLP Lead (mg/l)	pH
GRAND AVENUE								
1127-152-1.5-2.0	34.07150495	-117.87251735	1.5-2.0	43 J				
1127-152-3.5-4.0			3.5-4.0	6.0 J				
1127-152-5.5-6.0			5.5-6.0	7.5 J				
1127-152-7.5-8.0			7.5-8.0	6.0 J				
1127-154-0.5-1.0	34.07149533	-117.87220476	0.5-1.0	27				
1127-154-1.5-2.0			1.5-2.0	8.2				
HOLT AVENUE								
1127-155-1.5-2.0	34.07056648	-117.86438898	1.5-2.0	8.8				
1127-155-3.5-4.0			3.5-4.0	6.2				
1127-155-5.5-6.0			5.5-6.0	6.2				
1127-156-0.5-1.0	34.07027745	-117.86526696	0.5-1.0	15				
1127-156-1.5-2.0			1.5-2.0	24				
1127-157-0.5-1.0	34.07028177	-117.86386958	0.5-1.0	140 J	6.4	<0.21	0.29	8.4
1127-157-1.5-2.0			1.5-2.0	36 J				
1127-158-1.5-2.0	34.07004134	-117.86471402	1.5-2.0	36				
1127-158-3.5-4.0			3.5-4.0	9.1 J				
VIA VERDE								
1127-159-0.5-1.0	34.06904014	-117.83961588	0.5-1.0	150 J	5.1	<0.21		
1127-159-1.5-2.0			1.5-2.0	290 J	14	<0.21	0.46	7.9
1127-160-0.5-1.0	34.06860756	-117.83968827	0.5-1.0	48 J				
1127-160-1.5-2.0			1.5-2.0	11 J				
1127-161-0.5-1.0	34.06904340	-117.83955396	0.5-1.0	280 J	13	<0.21	0.36	8.1
1127-161-2.5-3.0			2.5-3.0	21 J				
1127-162-0.5-1.0	34.06860158	-117.83966477	0.5-1.0	28 J				
1127-162-2.5-3.0			2.5-3.0	11 J				
1127-163-0.5-1.0	34.06902663	-117.83937391	0.5-1.0	46 J				
1127-163-2.5-3.0			2.5-3.0	150 J	6.9	<0.21		
1127-164-0.5-1.0	34.06855554	-117.83949296	0.5-1.0	30 J				
1127-164-2.5-3.0			2.5-3.0	36 J				
1127-165-0.5-1.0	34.06900468	-117.83931110	0.5-1.0	120 J	11	<0.21		
1127-165-1.5-2.0			1.5-2.0	130 J	9.1	<0.21		
1127-166-0.5-1.0	34.06855286	-117.83944079	0.5-1.0	48 J				
1127-166-2.5-3.0			2.5-3.0	17 J				
1127-185-0.5-1.0	34.06858141	-117.83784637	0.5-1.0	62	4.2			
1127-185-1.5-2.0			1.5-2.0	74	6.5	<0.21		
1127-185-2.5-3.0			2.5-3.0	160	11	<0.21		
1127-186-0.5-1.0	34.06869508	-117.83818517	0.5-1.0	180	13	<0.21		
1127-186-1.5-2.0			1.5-2.0	41				

TABLE 3
BORING COORDINATES AND SUMMARY OF LEAD AND pH ANALYTICAL RESULTS
SEGMENT 3 - EA. 119341
INTERSTATE 10 HOV LANE WIDENING PROJECT FROM PUENTE AVENUE TO STATE ROUTE 57
LOS ANGELES, CALIFORNIA

Sample ID	LATITUDE	LONGITUDE	Sample Depth (feet)	Total Lead (mg/kg)	WET Lead (mg/l)	DI-WET Lead (mg/l)	TCLP Lead (mg/l)	pH
1127-187-0.5-1.0	34.06881973	-117.83865186	0.5-1.0	230	14	<0.21	0.50	8.1
1127-187-1.5-2.0			1.5-2.0	290	21	<0.21	0.68	8.0
1127-187-2.5-3.0			2.5-3.0	270	17	<0.21	0.48	8.0
1127-188-0.5-1.0	34.06910086	-117.83993981	0.5-1.0	320	26	<0.21	0.66	7.9
1127-188-1.5-2.0			1.5-2.0	300	12	<0.21	0.65	7.9
1127-189-0.5-1.0	34.06913067	-117.84019567	0.5-1.0	210	13	<0.21		
1127-189-1.5-2.0			1.5-2.0	430	20	<0.21	0.79	8.1
1127-189-2.5-3.0			2.5-3.0	300	11	<0.21	0.39	8.0
1127-190-0.5-1.0	34.06917073	-117.84058001	0.5-1.0	590	57	<0.21	2.6	7.7
1127-190-1.5-2.0			1.5-2.0	45				
KELLOGG DRIVE								
1127-167-1.5-2.0	34.06413283	-117.81217674	1.5-2.0	3.9 J				
1127-167-3.5-4.0			3.5-4.0	17				
1127-167-5.5-6.0			5.5-6.0	11				
1127-168-0.5-1.0	34.06370577	-117.81211233	0.5-1.0	50	2.6			
1127-168-1.5-2.0			1.5-2.0	15				
1127-169-0.5-1.0	34.06419266	-117.81189208	0.5-1.0	15				
1127-169-1.5-2.0			1.5-2.0	13				
1127-170-0.5-1.0	34.06374087	-117.81181719	0.5-1.0	240 J	11	<0.21	0.37	7.2
1127-170-1.5-2.0			1.5-2.0	170 J	6.5	<0.21	0.30	7.3
1127-172-0.5-1.0	34.06355778	-117.81212048	0.5-1.0	48				
1127-172-1.5-2.0			1.5-2.0	13				
1127-174-0.5-1.0	34.06356137	-117.81177866	0.5-1.0	19 J				
1127-174-1.5-2.0			1.5-2.0	190 J	7.8	<0.21	0.31	7.9
EB RIGHT SHOULDER BETWEEN VIA VERDE AND KELLOGG DRIVE								
1127-175-0.5-1.0	34.06427491	-117.82824135	0.5-1.0	110 J	5.2	<0.21		
1127-175-1.5-2.0			1.5-2.0	64 J	2.7			
1127-175-2.5-3.0			2.5-3.0	40 J				
1127-176-0.5-1.0	34.06423474	-117.82800205	0.5-1.0	42				
1127-176-1.5-2.0			1.5-2.0	5.4				
1127-176-2.5-3.0			2.5-3.0	41				
1127-177-0.5-1.0	34.06411304	-117.82779966	0.5-1.0	150	7.8	<0.21		
1127-177-1.5-2.0			1.5-2.0	42				
1127-178-0.5-1.0	34.06400447	-117.82749039	0.5-1.0	93	2.0			
1127-178-1.5-2.0			1.5-2.0	36				
1127-179-0.5-1.0	34.06392454	-117.82715275	0.5-1.0	94	4.1			
1127-179-1.5-2.0			1.5-2.0	16	3.7			
1127-180-0.5-1.0	34.06385673	-117.82676057	0.5-1.0	270	18	<0.21	0.67	7.8
1127-180-1.5-2.0			1.5-2.0	29				

TABLE 3
BORING COORDINATES AND SUMMARY OF LEAD AND pH ANALYTICAL RESULTS
SEGMENT 3 - EA. 119341
INTERSTATE 10 HOV LANE WIDENING PROJECT FROM PUENTE AVENUE TO STATE ROUTE 57
LOS ANGELES, CALIFORNIA

Sample ID	LATITUDE	LONGITUDE	Sample Depth (feet)	Total Lead (mg/kg)	WET Lead (mg/l)	DI-WET Lead (mg/l)	TCLP Lead (mg/l)	pH
1127-181-0.5-1.0	34.06381608	-117.82652020	0.5-1.0	77	5.8	<0.21		
1127-181-1.5-2.0			1.5-2.0	69	3.2			
1127-181-2.5-3.0			2.5-3.0	14				
1127-182-0.5-1.0	34.06379531	-117.82618883	0.5-1.0	26				
1127-182-1.5-2.0			1.5-2.0	9.4				
1127-182-2.5-3.0			2.5-3.0	9.5				
1127-183-0.5-1.0	34.06376740	-117.82598569	0.5-1.0	18				
1127-183-1.5-2.0			1.5-2.0	7.1				
1127-184-0.5-1.0	34.06375367	-117.82565704	0.5-1.0	86	8.2	<0.21		
1127-184-1.5-2.0			1.5-2.0	8.2				
1127-191-0.5-1.0	34.06496433	-117.82981248	0.5-1.0	38				
1127-191-1.5-2.0			1.5-2.0	63	4.9			
1127-192-0.5-1.0	34.06484062	-117.82956101	0.5-1.0	270	15	<0.21	0.57	7.2
1127-192-1.5-2.0			1.5-2.0	150	11	<0.21		
1127-192-2.5-3.0			2.5-3.0	200	12	<0.21	0.40	7.6
1127-193-0.5-1.0	34.06475202	-117.82939692	0.5-1.0	110	6.5	<0.21		
1127-193-1.5-2.0			1.5-2.0	37				
1127-193-2.5-3.0			2.5-3.0	110	4.9			
1127-194-0.5-1.0	34.06464862	-117.82917764	0.5-1.0	260	20	<0.21	0.61	7.8
1127-194-1.5-2.0			1.5-2.0	100	9.6	<0.21		
1127-195-0.5-1.0	34.06451945	-117.82891012	0.5-1.0	370	25	<0.21	1.4	7.8
1127-195-1.5-2.0			1.5-2.0	270	15	<0.21	0.77	7.8
1127-196-0.5-1.0	34.06440001	-117.82862360	0.5-1.0	160	9.5	<0.21		
1127-196-1.5-2.0			1.5-2.0	45				
1127-201-3.5	34.06443262	-117.82882215	3.0-3.5	0.9 J				
1127-201-4.5			4.0-4.5	0.44 J				
1127-201-5.5			5.0-5.5	0.80 J				
1127-201-6.5			6.0-6.5	0.81 J				
1127-201-7.5			7.0-7.5	1.4 J				
1127-201-10.5			10.0-10.5	0.60 J				
1127-202-3.5	34.06446839	-117.82889283	3.0-3.5	1.2 J				8.3
1127-202-4.5			4.0-4.5	1.1 J				
1127-202-5.0			4.5-5.0	0.91 J				
1127-202-5.5			5.0-5.5	1.4 J				
1127-203-3.5	34.06449909	-117.82896304	3.0-3.5	1.1 J				
1127-203-4.5			4.0-4.5	1.4 J				
1127-203-5.5			5.0-5.5	0.69 J				
1127-203-6.0			5.5-6.0	0.79 J				
1127-203-6.5			6.0-6.5	0.79 J				
1127-203-7.0			6.5-7.0	0.37 J				

TABLE 3
BORING COORDINATES AND SUMMARY OF LEAD AND pH ANALYTICAL RESULTS
SEGMENT 3 - EA. 119341
INTERSTATE 10 HOV LANE WIDENING PROJECT FROM PUENTE AVENUE TO STATE ROUTE 57
LOS ANGELES, CALIFORNIA

Sample ID	LATITUDE	LONGITUDE	Sample Depth (feet)	Total Lead (mg/kg)	WET Lead (mg/l)	DI-WET Lead (mg/l)	TCLP Lead (mg/l)	pH
1127-204-3.5	34.06453905	-117.82902423	3.0-3.5	0.87 J				
1127-204-4.5			4.0-4.5	0.57 J				
1127-204-5.5			5.0-5.5	1.2 J				7.8
1127-204-6.0			5.5-6.0	1.3 J				
1127-204-6.5			6.0-6.5	1.3 J				
1127-205-2.5	34.06468776	-117.82935440	2.0-2.5	0.64 J				
1127-205-3.0			2.5-3.0	0.88 J				
1127-205-3.5			3.0-3.5	1.6 J				8.2
1127-206-2.5	34.06465356	-117.82927343	2.0-2.5	0.39 J				
1127-206-3.0			2.5-3.0	0.72 J				
1127-206-3.5			3.0-3.5	0.61 J				
1127-207-4.5	34.06463089	-117.82919963	4.0-4.5	1.0 J				
1127-207-5.5			5.0-5.5	0.52 J				
1127-207-6.5			6.0-6.5	2.0 J				
1127-207-7.0			6.5-7.0	3.2 J				
1127-207-10.5			10.0-10.5	0.25 J				7.6
1127-208-3.4	34.06459564	-117.82912649	3.0-3.4	1.4 J				
1127-208-4.5			4.0-4.5	1.5 J				
1127-208-5.5			5.0-5.5	0.9 J				
1127-208-6.5			6.0-6.5	0.48 J				
1127-208-7.5			7.0-7.5	0.42 J				
1127-208-10.5			10.0-10.5	0.70 J				
EB RIGHT SHOULDER BETWEEN HOLT AND VIA VERDE								
1127-209-4.5	34.06796514	-117.84763383	4.0-4.5	13				7.6
1127-209-5.5			5.0-5.5	91	5.4	<0.21	<0.21	
1127-209-6.4			6.0-6.4	4.1				
1127-209-8.5			8.0-8.5	1.4				
1127-209-10.5			10.0-10.5	1.8				
1127-210-4.5	34.06797785	-117.84748328	4.0-4.5	7.9				
1127-210-5.5			5.0-5.5	86	5.5	<0.21	0.31	
1127-210-6.5			6.0-6.5	47				
1127-210-8.5			8.0-8.5	150	8.3	<0.21	0.21 J	8.0
1127-210-10			9.5-10.0	64	6.4	<0.21	0.41	
1127-211-4.5	34.06795795	-117.84730599	4.0-4.5	31				
1127-211-5.5			5.0-5.5	87	4.0		0.34	
1127-211-9.0			8.5-9.0	170 J	4.4		<0.21	
1127-212-4.5	34.06793584	-117.84719995	4.0-4.5	17 J				
1127-212-5.5			5.0-5.5	1.5 J				
1127-212-8.5			8.0-8.5	7.6 J				
1127-212-10.0			9.5-10.0	3.0 J				

Notes:

mg/kg = Milligram per kilogram
mg/l = Milligram per liter
WET = Waste Extraction Test using citric acid as the extraction fluid
DI-WET = Waste Extraction Test using water as the extraction fluid
TCLP = Toxicity Characteristic Leaching Procedure
< = Analyte was not detected above the laboratory reporting limit
J = Result qualified as an estimated value due to analytical bias in precision or accuracy

TABLE 4
SUMMARY OF TITLE 22 METALS ANAYLTICAL RESULTS
SEGMENT 3 - EA. 119341
INTERSTATE 10 HOV LANE WIDENING PROJECT FROM PUENTE AVENUE TO STATE ROUTE 57
LOS ANGELES, CALIFORNIA

Sample ID	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
1127-157-1.0	0.52 J	1.6	85	<0.042	0.77 J	10	6.4	16	140 J	0.11	0.74 J	12	<0.28	<0.042	<0.098	22	51 J
1127-159-2.0	0.82 J	8.5 J	130	<0.042	2.8	15	8.2 J	26 J	290 J	0.056 J	4.2 J	32 J	<0.28	<0.042	<0.098	48	120 J
1127-161-1.0	0.28 J	3.2	270	<0.042	2.1	14	7.2	18	280 J	0.054 J	5.2	24	0.31 J	<0.042	<0.098	38	78 J
1127-170-1.0	0.75 J	4.3	170	<0.042	3.4	17	8.2	29	240 J	0.073 J	8.7	24	<0.28	<0.042	<0.098	34	130
1127-174-2.0	1.0 J	5.3	160	<0.042	6.8	20	6.9	28	190 J	0.080 J	19	31	3.3	<0.042	<0.098	41	130
1127-180-0.5-1.0	0.44 J	<0.20	130	<0.042	1.2	11	5.4	13	270 J	0.022 J	1.6	14	<0.28	<0.042	<0.098	22	100
1127-189-2.0	0.91 J	6.9	150	<0.042	3.8	18	6.6	32	430	0.047 J	7.0	31	<0.28	<0.042	<0.098	65	130
1127-190-1.0	1.3 J	2.7	120	<0.042	1.7	20	7.4	46	590	0.11	11	22	<0.28	<0.042	<0.098	24	360
1127-195-1.0	1.2 J	1.2	110	<0.042	1.3	39	5.9	17	370	0.037 J	1.7	13	<0.28	<0.042	<0.098	19	120
1127-195-2.0	0.51 J	2.3	120	<0.042	1.2	14	8.5	14	270	0.050 J	1.4	17	<0.28	<0.042	<0.098	18	98
1127-209-5.5	0.78 J	5.4 J	140	<0.042	3.5	20	5.8	23	91	0.045 J	9.6 J	37	<0.28	<0.042	<0.098	66	77
1127-210-8.5	0.71 J	4.2 J	160	<0.042	3.6	20	5.8	24	150	0.073 J	11 J	38	0.51J	<0.042	<0.098	56	77
1127-211-9.0	0.67 J	2.2 J	170	<0.042	3.2	22	6.7	25	170 J	0.047 J	6.6 J	39	<0.28	<0.042	<0.098	44	82
TTLC	500	500	10,000	75	100	2,500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
STLC	15	5.0	100	0.75	1.0	5	80	25	5.0	0.2	350	20	1.0	5	7.0	24	250
CHHSLs Ind/	380/	0.24/	6,300/	190/	7.5/	10,000/	3,200/	38,000/	320/	180/	4,800/	16,000/	4,800/	4,800/	63/	6,700/	100,000/
Res	30	0.07	5,200	16	1.7	10,000	600	3,000	80	18	380	1,600	380	380	5.0	530	23,000
Background Concentrations																	
Minimum	0.15	0.6	133	0.25	0.05	23	2.7	9.1	12.4	0.05	0.10	9	0.015	0.1	5.3	39	88
Maximum	1.95	12.0	1,400	2.70	1.7	1,579	46.9	96.4	97.1	0.90	9.6	509	0.43	8.3	36.2	288	236
Mean	0.60	3.5	509	1.28	0.36	122	14.9	28.7	23.9	0.26	1.3	57	0.058	0.8	15.7	112	149

Notes:
Results shown in milligrams per kilogram
< = Not detected above the laboratory reporting limit
J = Result qualified as an estimated value due to analytical bias in precision or accuracy
TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration
CHHSLs = California Environmental Protection Agency, California Human Health Screening Levels for industrial (Ind) and residential (Res) use
TTLC, STLC, and CHHSLs shown for chromium are for chromium III.
Background Concentrations of Trace and Major Elements in California Soils
(Kearney Foundation of Soil Science, Division of Agriculture and Natural Resources, University of California, March 1996)
Maximum arsenic background concentration source - *Determination of a Southern California Regional Background Arsenic Concentration in Soil*, DTSC March 2008

APPENDIX A

HEALTH AND SAFETY PLAN

AERIALLY DEPOSITED LEAD SITE INVESTIGATION

ROUTE 10 HOV LANE WIDENING PROJECT
SEGMENTS 2 AND 3
PUENTE AVENUE TO ROUTE 57
LOS ANGELES COUNTY, CALIFORNIA

GEOCON
CONSULTANTS, INC.

GEOTECHNICAL
ENVIRONMENTAL
MATERIALS

PREPARED BY

GEOCON CONSULTANTS, INC.
3303 N. SAN FERNANDO BLVD., SUITE 100
BURBANK, CALIFORNIA 91504

PROJECT NO. S9500-06-04
TASK ORDER NO. 11
EA NOS. 07-117OU1 AND 07-119341

JANUARY 2011

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Figure 1, Vicinity Map

HEALTH AND SAFETY PLAN SUMMARY

Site Name/Location **Route 10 HOV Lane Widening Project,**
Segments 2 and 3 Puente Avenue to State Route 57
Los Angeles County, California

Project Representatives:

• Project Manager/Cell No.:	**Mike Conkle**	**(213) 503-7841**
• Site Safety Officer/Cell No.:	**Cesar Larios**	**(818) 298-5790**
	Geocon Office Number	**(818) 841-8388**
• Geocon Consulting CIH:	**Doug Krause**	**(530) 758-6397**
	Cell No.:	**(530) 848-9232**
• Caltrans Project Manager:	**Samuel Yang**	**(213) 897-4058**

Scope:

- General survey/non-intrusive activities
- Soil sampling (direct-push/hand-auger)

Hazard Summary:

- Mechanical - vehicle traffic, slip/trip, struck-by injuries
- Electrical Hazards – Underground
- Highway Traffic/Drill rig Noise
- Biological – bites or stings
- Chemical - aerially deposited lead (ADL)

Control Summary:

- Site Control - Isolation & PPE - traffic control; safety vests; hard hats; safety glasses
- Isolation - utility location; identification
- Hearing protection - plugs or muffs
- Site inspection; awareness; repellent
- Engineering Controls - PPE - wet methods & work practices; protective gloves

Hospital Reference: **Queen of the Valley Hospital**
1115 South Sunset Avenue
West Covina, California 91790
626-962-4011

Directions: **From Route 10, take Exit 34A Pacific Ave/West Covina Parkway and turn right. Continue on W. Covina Parkway. Turn right on S Sunset Ave. Hospital will be on right (see Vicinity Map, Figure 1).**

Emergency Assistance:

Fire/Police/Medical Assistance:	**911**
Poison Control:	**800-876-4766**

1.0 INTRODUCTION

This Health and Safety Plan (HSP) is a compilation of health and safety guidelines, policies and/or performance protocols that, when exercised, are intended to reduce or eliminate the potential for injury and exposure during the performance of the activities at the site described below. Conformance with its contents does not warrant that injuries or exposures will not occur.

This HSP is not a training tool and does not contain the degree of detail necessary to train an employee on the appropriate performance, approach and/or equipment-use protocols referenced, herein. It will be assumed that persons working on this project and referring to this HSP meet the minimum training requirements described later, herein.

This HSP has been prepared to specifically support the field activities described herein. The provisions described herein apply to employees of Geocon Consultants, Inc. (Geocon) and its subcontractors, only. Representatives of the Client, Client-retained subcontractors, and representatives of state or local government agencies are expected to observe the safety rules and requirements established by their respective organizations, provided they do not conflict with this HSP, but will not be responsible for enforcing the conditions of this HSP on these representatives.

The contents of this HSP are based on factors and conditions understood prior to the start of the field activities. If those factors and conditions change during the performance of the activities, including the service scope, or if conditions exist that were not considered in the preparation of this HSP, then such shall be brought to the immediate attention of the person approving this HSP, and the HSP shall be modified, accordingly.

All project personnel, including Caltrans field inspectors will review, and become familiar with the elements of the Plan prior to site work. A copy of the Plan will be provided to all subcontractors and the Caltrans Resident Engineer (RE) or designee involved with project activities.

A pre-job conference will be held to delineate roles and responsibilities, discuss key elements of the Plan, and coordinate activities. This Plan is a "working document" to be used by affected personnel. The Plan may be modified at any time in accordance with Section 1.4 to adequately address changing conditions or previously unrecognized exposure hazards which may be encountered during the project. The Plan will be updated at least every six months and a current copy of the Plan will be maintained at the project site and be available to all affected personnel. The date indicated in the lower right-hand corner of this document indicates the latest version of this Plan.

1.1 Project Location and Description

Site Name/Location: Route 10 HOV Lane Widening Project Segments 2 and 3,
Puente Avenue to Route 57 Los Angeles County, California

The San Bernardino Freeway (I-10) is an east-west route classified as an interstate freeway that provides commuter access to the Los Angeles Central Business District from Riverside County, San Bernardino County and San Gabriel Valley. This project is a portion of the overall project that will extend the existing I-10 High Occupancy Vehicle (HOV) lanes to I-15 in San Bernardino County..

1.2 Background

Aerially deposited lead (ADL) may be present on the site, primarily due to historic leaded fuel emissions from automobile exhausts. Based on the preliminary hazardous waste site assessment, the contaminations may include naturally occurring petroleum hydrocarbons and chemicals and heavy metals in groundwater.

1.3 Project Objectives

The purpose of the scope of services is to evaluate whether ADL soil are present at the site at regulated levels. The site investigation can also be used for recommendations on appropriate handling procedures for handling and disposing of soil and groundwater generated during excavation activities.

1.4 Planned Scope of Services

- General survey/non-intrusive activities;
- Soil sampling (hand-auger) activities;

1.5 Schedule

Anticipated Period of Performance: January 2011

Anticipated Weather/Temperature: Weather conditions are anticipated to be cold to moderate.

2.0 ADMINISTRATIVE REQUIREMENTS/CONTROLS

2.1 Personnel

Personnel responsible for project safety include the Project Manager/ Site Safety Officer (SSO), the Consulting Certified Industrial Hygienist (CIH), and participating project personnel.

2.1.1 Project Manager

The Project Manager has ultimate authority and responsibility for project Health and Safety. Accordingly, he/she has the responsibility to develop the HSP (or assign its development); audit compliance with the provisions of this HSP; suspend project activities or modify service practices for health and safety reasons; and, to dismiss from a project site individuals whose onsite conduct either endangers the health and/or safety of others or is judged not to comply with the provisions of the HSP. The Project Manager is responsible for sharing/distributing the HSP to participating field personnel and

to an authorized representative of each project subcontractor. The Project Manager is also responsible for implementing all provisions of the HSP and any applicable addenda. Implementation includes:

- Reviewing the HSP requirements (if prepared by another project member);
- Presenting an overview of the provisions of the HSP with project participants;
- Providing the safety equipment specified herein;
- Collecting and submitting the requisite health and safety documentation (training rosters/certificates, air monitoring records (exposure assessments); site personnel logs, medical approvals), and copying them to the SSO, if appropriate;

  Note: Monitoring and exposure assessment records will be maintained in accordance with the provisions of T8 CCR §1532.1(n) Lead and §3204, Access to Employee Exposure and Medical Records.
- Designating/identifying a qualified project member as the SSO; and
- Reporting all Plan amendments to the Consulting CIH.

2.1.2 Site Safety Officer

The designated SSO is responsible for assisting the Project Manager with onsite implementation of the HSP. The SSO's responsibilities include:

- Maintaining project safety equipment supplies;
- Performing air monitoring, if and as specified herein
  (ref: T8 CCR § 1532.1(d) Exposure Assessment);
- Directing decontamination procedures, as appropriate;
- Enforcing the provisions of this HSP;
- Directing emergency response operations until public emergency personnel arrive;
- Setting up Site Controls, if and as specified herein; and
- Reporting all incidents and infractions to the Project Manager.

The SSO has the authority to suspend project activities any time he/she determines that the provisions of the HSP are inadequate to provide a service/project environment conducive to employee safety. Further, the SSO is to inform the Project Manager of any individuals whose onsite actions jeopardize either their health and safety or the health and safety of others.

2.1.3 Consulting Certified Industrial Hygienist

The Consulting CIH provides industrial hygiene and safety consultation. In this capacity, he:

- Reviews and approves HSPs, as requested;
- Provides training, as requested;
- Provides technical assistance on sampling strategies, methods and use of monitoring equipment;

- Provides technical support for the selection and use of Personal Protective Equipment (PPE); and,
- Provides arbitration on project health and safety issues.

2.1.4 Project Field Staff

All project personnel are responsible for:

- Complying with the provisions of this HSP;
- Performing services in a manner that is consistent with good health and safety practice; and
- Reading and being knowledgeable of the contents of this HSP.

2.2 Personnel Training

2.2.1 General Site Employees

Site employees will attend a project orientation prior to starting the project. The orientation will review all elements of the HSP, including: 1) the location of potential health and safety hazards on the site; and 2) requirements of the HSP. The training will also address other Cal/OSHA requirements such as the Geocon Hazard Communication Program (T8 CCR §5194), including the potential hazards of exposure to inorganic lead - T8 CCR § 1532.1(l), and the Injury and Illness Prevention Program (T8 CCR §3203; CSO §1509).

2.2.2 "Tailgate" Meetings

During the active field components of the project, the Project Manager or designee will conduct daily "tailgate" safety meetings. These meetings will include information on the following subjects, as applicable:

- Changes to project scope;
- Recognized changes to site conditions;
- Review of safe work practices;
- On or off the project safety practices;
- Feedback from employees on hazards, safety suggestions, or concerns; and
- Recognition for compliance, good safety performance or attitude.

Attendance at the tailgate meetings is a mandatory part of each employee's job responsibilities.

2.3 Medical Evaluation

Geocon and subcontractor employees required to wear respiratory protection shall have a current medical evaluation and approval by a physician or other licensed health care professional (PLHCP). Medical evaluations will be provided in accordance with the Geocon Respiratory Protective Equipment Program (ref. T8 CCR §5144(e) "Medical Evaluation"; §§1532.1(j) Lead – "Medical Surveillance").

Note: Based on Negative Exposure Assessments from industrial hygiene monitoring for airborne lead performed for representative tasks, using similar controls, and carried out within the past twelve months (ref. T8 CCR §§ 1532.1(d)(5)(A)), respiratory protective equipment will not be required for this project.

Project personnel are to arrive at the jobsite well rested and physically prepared to perform assigned tasks.

3.0 HAZARD AND CONTROL ANALYSIS

The following hazards were assessed to either exist, or have the potential to develop, during the performance of the project activities:

	HAZARDS					
TASKS	MECHANICAL	ELECTRICAL/UTILITY	NOISE	BIOLOGICAL	CHEMICAL	THERMAL
Work-Related Driving	**X**					
General Survey	**X**		**X**	**X**		
Soil Sampling Activities (direct-push/hand-auger)	**X**	**X**	**X**	**X**	**X**	

3.1 Safe Driving

Thousands of workers are injured or die in job-related motor vehicle accidents annually. Motor vehicle accidents are the number-one cause of employee injuries and deaths. Most accidents can be avoided by practicing defensive driving. Geocon policies mandate that employees:

- Prepare themselves and their vehicle for the road before travel;
- Drive according to posted speed limits unless adverse conditions necessitate slower speeds;
- Never tailgate, employ the three (3) second rule in following vehicles;
- Follow California State Law and other local laws and regulations regarding the use of cellular phones for communication while driving;

- Additionally, talking on a cell phone and/or texting is prohibited while operating sampling equipment; and,
- Use practical driving procedures in cities, on the freeway, and in rural areas.

3.2 Electrical Hazards

Type(s)/Source: Underground utilities

Qualified Exposure Risk: Moderate

Hazard Control: Isolation (Obtain utility clearance for all boring locations.)

Hazard: Contact with electrical current can cause shock, electrical burns, and/or be instantly fatal. If a hand-auger makes contact with electrical wires, it will not be insulated from the ground. The human body, if it simultaneously comes in contact with the auger and the ground, will provide a conductor of the electricity to the ground.

Control(s): Demarcate all drilling/digging locations, first. Contact Underground Service Alert (USA) (1-800-227-2600) and review as-built plans before performing any augering activity. It is advised that a private utility locator be contacted to supplement USA's demarcations, especially when the project is on private property. Soil intrusive work shall not proceed until all locating activities have been completed and fully documented in the site records. The initial site safety orientation meeting for all personnel on-site shall include a review of the underground utility locations and the location of the site map, showing the position of any underground utility lines. The site safety orientation shall include a site walkover of each marked utility or line.

Should a sub-surface condition be encountered that creates suspicion that there may be an unidentified underground line or utility, immediately cease work and secure the equipment. Work will not proceed until the potential risk or condition is resolved.

3.3 Mechanical Hazards

Type(s)/Source:

- Material handling/back injury
- Striking (slips/trips/falls)
- Struck-by injuries - vehicle traffic

Qualified Exposure Risk: Moderate

Hazard Control:

- Safe Lifting
- Isolation - traffic control/work methods/no work during inclement weather

- PPE - ANSI approved Class III safety vests & night (low visibility) ensemble, hardhats, safety glasses

3.3.1 Material Handling/Back Injury

Hazard: It is expected that field personnel will be required to lift heavy equipment and supplies and/or perform arduous tasks during this project. Accordingly, back injuries or physical strain may be caused by: routine lifting or one-time-only lifting; the weight of a lifted object; the frequency of lifting; bending, twisting, or rotating during lifting; prolonged sitting; exposure to vibrations; poor arch support in shoes; and, not stretching prior to physical activity. If the following "control" mechanisms are not exercised, debilitating back injury may occur.

Control(s): Before attempting to lift and carry an object, always test its weight, first. If it is too heavy, get help. If possible, use mechanical lifting aids. If manageable, the proper method for lifting is:

- Get a good footing.
- Place feet about shoulder width apart.
- Bend knees to pick up load. Never bend from the waist.
- Keep back straight.
- Get a firm hold. Grasp opposite corners of the load, if possible.
- Keep the back as upright as possible.
- Lift gradually by straightening the legs - don't jerk the load.
- Keep the weight as close to the body as possible.
- When changing directions, turn the entire body, including the feet. Don't twist the body.

If devices are used for handling materials manually (e.g., two-handed lifters, barrel ring clamps, hand trucks, wheelbarrows, etc.), wear protective equipment like gloves and safety shoes to minimize the potential of appendages becoming pinched or smashed between the load and stationary features. Also, avoid overloading the device.

3.3.2 "Striking" Injuries

Hazard: Injuries can, and often, result when a person (a kinetic mass) unexpectedly instigates contact with another kinetic mass. These occurrences typically result from inadvertent slips, trips and falls.

Control(s): To minimize risks of "slip/trip" hazards, personnel shall maintain a constant program of good housekeeping, keeping areas clear of trip hazards and wet and slippery surfaces. All hand tools shall be regularly secured and care shall be taken when entering areas where work is being performed above eye level.

In cases where “fall” hazards exist (i.e., personnel are required to work more than 6 feet above a work surface or platform, including the bottom of a trench, vault or tank), extra precautions shall be taken if guardrails or railings are absent. The precautions shall include the placement of a temporary guardrail and/or the use of either an "emergency" or "working" safety harness with lanyard or lifeline. A “buddy” (see 4.0) shall be provided to support such operations.

3.3.3 "Struck-by" Injuries

Hazard: Injuries can, and often, result when one becomes an unexpected receptor of contact with a moving vehicle or another kinetic mass. These occurrences typically result from the worker being struck by a dropped or collapsed mass or a moving piece of equipment or vehicle. Hazards with machines and heavy equipment are created when there are rotating, reciprocating, and transverse motions, or cutting, punching, shearing and bending actions.

Controls**:** Engage the vehicle’s warning light bar whenever planning to pull off or exit the highway. When stopped or parked, continue use of the light bar. Employees/workers shall not exit the vehicle until they have successfully pulled off of the highway. In those instances where it is not possible to clear the shoulder, workers shall exit the vehicle on the side opposite the adjacent traffic flow. Geocon employees will be required to wear hard hats and fluorescent vests and place safety cones at 10-yard intervals for a minimum of 30 yards (if achievable) from the left rear corner of the vehicle so they may be seen by adjacent traffic.

If necessary, Geocon may provide lane closures in conformance with Caltrans *Standard Provisions* for *Maintaining Traffic* as specified in *Standard Plans T-10, T-10A, T-11, T-12, T-13,* and *T-14*.

Workers shall maintain a constant awareness of traffic patterns/conditions throughout the duration of the field services.

3.4 Noise Hazards

Vehicle traffic or equipment operated at sampling sites may present a noise hazard to employees. In all cases where the sound pressure levels may exceed a time-weighted average noise dose of 85 decibels (the Action Level), the Project Manager will evaluate exposures according to the Geocon Hearing Conservation Program (ref. T8 CCR §§5095-5100). Selection of hearing protection will be made in accordance with the Geocon Safety Equipment Guide. Only hearing protectors (ear plugs or muffs) with a Noise Reduction Rating of 20 dB, or higher, will be used. When worn, earmuffs will be donned in the "over the head" position with the hair pulled back from the sealing surface.

Note: In general, noise levels in excess of 85 dBA interfere with communication between two individuals speaking in a normal tone of voice at a distance of 3 feet from one another.

3.5 Biological Hazards

Type(s)/Source: Vectors (insects, e.g., mosquitoes), animals

Qualified Exposure Risk: Low to moderate (mosquitoes)

Hazard Control:

- Isolation (Attention to detail – avoidance)
- PPE (Gloves/boots/long-sleeve shirts)
- Insect repellent, barrier creams

Hazard: Contact with insects and animals likely to be present at the site should be avoided. Stinging and biting insects, including bees, wasps, spiders, and ticks, can cause extreme discomfort and/or serious allergic responses. Insect bites are generally not dangerous, unless they are from a poisonous insect or mosquitoes potentially carrying West Nile virus. The primary concern with animal bites and scratches is the potential for infection and/or rabies. Snake or scorpion bites can also be dangerous, but more from infection or trauma than the toxins injected by the snake or scorpion.

Control(s): Before beginning fieldwork each day, inspect the work area for the potential presence of poisonous plants and inhabitant reptiles and take measures necessary to minimize the potential for contact. Specially prepared topical barriers, such as Teknu®, for protection against poison oak and insect repellent containing approximately 50% DEET for protecting exposed skin from biting insects; the more DEET a repellent contains the longer time it can provide protection from mosquito bites. Apply insect repellent sparingly to exposed skin; these products are commercially available and may minimize the potential for development of skin rashes and/or irritations due to such exposures. NOTE: Avoid contacting plastic zippers or other plastic closure mechanisms on clothing, equipment bags, etc., with DEET containing crème which will cause these materials to degrade.

If unprotected contact with potentially poisonous plants does exist, wash with soap and water as soon as possible. If irritation still develops, apply First Aid and/or seek medical attention, accordingly.

If you are allergic to bee or wasp stings, be sure to have the appropriate first aid available (e.g., an epi-pen) on the project. If you are stung, administer first aid and seek immediate medical attention.

Be sure a vector or animal bite victim obtains medical attention quickly if a bite or scratch occurs, especially if there is a potential that it was poisonous. In the meantime, administer First Aid by scrubbing the wound with soap and water, and rinsing thoroughly under running water. Dry off and place a clean bandage on the wound. Victims of these bites should lie down and remain calm and motionless; cold packs should be applied and medical attention sought immediately.

If bitten by a tick, remove it by grasping the head close to the skin using fine point tweezers and gently pull it out; DO NOT squeeze the tick body, which may cause it to bite harder and possible inject

infected blood into the wound. Place the tick in a plastic bag for identification. If it is identified as a deer tick, a physician may prescribe antibiotics to suppress potential Lyme disease.

3.6 Chemical Hazards – Inorganic Lead

The risk of significant exposure to inorganic lead is considered low while performing characterization tasks required on this project. Sampling methods and work practices to be employed will reduce the potential for airborne exposures above the 30 microgram per cubic meter ($\mu g/m^3$) Action Levels for lead; ref. T8 CCR §1532.1(d) Exposure Assessment.

Detailed information regarding the physical description of lead, including health hazards, routes of entry into the body, signs and symptoms of exposure, and target organs, published exposure limits (PEL-TWA and Action Limit); chemical and physical properties are available in Attachment A T8 CCR §1532.1 Lead – Appendix A.

Types/Source: Aerially deposited inorganic lead.

Exposure Routes: Inhalation & ingestion; ref. Attachment A T8 CCR §1532.1 Lead – Appendix A

Qualified Exposure Risk: Low, due to wet sampling methods and safe work practices

Exposure Controls:

- Wet methods and adherence to specific sampling methods and procedures

  Negative Exposure Assessment: Results of industrial hygiene monitoring of representative tasks and sampling procedures for lead performed within the past twelve months using these controls documented exposures consistently below 30 $\mu g/m^3$ Action Limit for airborne lead (ref. T8 CCR §1532.1(d)(5)(A))
- Avoid contact with, and inhalation of, airborne contaminated soil/dust.
- PPE – nitrile sampling gloves and safety glasses
- Follow good personal hygiene practices (see Section 4.2).

CHEMICAL NAME CAS #	ROUTES OF ENTRY	PUBLISHED EXPOSURE LIMITS		
		CATEGORY	CONCENTRATION	SOURCE
Lead, Elemental & Inorganic Compounds 7439-92-1	Inhalation Ingestion	TLV-TWA/PEL PEL-TWA	0.05 mg/m^3 0.05 mg/m^3	ACGIH/ OSHA

4.0 GENERAL HEALTH AND SAFETY REQUIREMENTS

4.1 Air Monitoring

Industrial hygiene monitoring will not be performed for the lead sampling tasks being carried out for this project. Previous Negative Exposure Assessments for representative tasks, using similar controls

and sampling practices document exposures consistently below the 30 $\mu g/m^3$ Action Level for airborne lead; ref. T8 CCR §1532.1(d)(5)(A).

4.2 Personal Hygiene

The SSO will establish hand-wash facilities, including clean water, hand soap, waterless hand cleaner, sanitary wipes and clean towels at the project site. All Geocon personnel, subcontractor employees, and Caltrans field inspectors and engineers leaving the project site (work zones) will clean potential impacted soils from their footwear and wash hands prior to leaving the project site (ref. T8 CCR §1527(a)(2)). In addition, the following procedures will be followed to ensure worker protection against potential exposure through ingestion:

- Eating, drinking, chewing gum or tobacco, smoking, or any practice that increases the probability of hand-in-mouth transfer and ingestion of material is prohibited in any area designated as being potentially impacted.
- Hands and face must be thoroughly washed upon leaving the work area, and before eating, drinking, or other non-project activities.
- Avoid unnecessary kneeling, sitting, leaning, or general contact with potentially impacted surfaces or with surfaces suspected of being potentially impacted by hazardous materials (i.e., puddles, mud, leachate, etc.).

4.3 Buddy System

Geocon personnel carrying out field activities are to work with another person at all times. The Caltrans representative can serve as the second person while the work is being conducted in the field. Under no circumstances, other than completion of paper work at the end of the day, are field personnel to work alone at the site while conducting field activities.

4.4 Work Zone Controls

With exception to the traffic controls discussed in Section 3.3.3, formal work, as referenced above, although airborne concentrations of lead are not anticipated to exceed the 30 $\mu g/m^3$ Action Level, nevertheless, work zones (Exclusion and Support) will be established for this project to minimize risk to non-project personnel and the public. Conventional construction signs, barricades and caution tape shall be utilized to control access and egress of project workers from potential lead impacted areas (zones), maintain security, and prevent access to the project site from the public.

Since negative exposure assessments are established by the low concentrations of lead in soil, “Regulated Areas” with warning signs required under T8 CCR §1532.1(i)(6) will not be established.

4.5 Code of Safe Practices

General safe work practices to be utilized by all project personnel are summarized below:

- All nonessential personnel will be kept clear of work areas.
- Adequate signs and safety devices will be installed on equipment.
- All site employees will wear assigned personal protective equipment and level of protection as designated by the Site Safety Officer.
- Eating, drinking, smoking, chewing gum or tobacco, or application of cosmetics is allowed in designated areas only.
- At a minimum, all personnel will wash with soap and water before lunch, using the restroom, and at the end of work. The face and hands shall be washed before eating, drinking, smoking, chewing gum, applying cosmetics, etc.
- Over-the-counter drugs and prescription medications must be reported to the Site Safety Officer for clearance before an employee is allowed to work near drill rig or other heavy equipment.
- When portable electric tools and equipment are used, three-wire extension cords are required.
- Employees will advise their supervisors of any malfunctioning equipment immediately.
- An ongoing safety maintenance program for tools and equipment will be instituted. Inspections will occur on a regular basis to ensure parts are secure and intact. Defective equipment will be repaired or replaced.
- Appropriate engineering controls and equipment guards will be installed on tools and equipment. This includes seat belts & backup warning lights and signals.
- A list of names of personnel who are trained in CPR and first aid shall be available.
- Labels shall be placed on containers of hazardous materials.
- No one will work alone; the "buddy system" shall be implemented for all field work.
- Employees shall be trained to identify effects and symptoms of toxic exposure and report them immediately.
- Under no circumstances are Geocon staff to enter a permit-required confined space.

5.0 PERSONAL PROTECTIVE EQUIPMENT

The employment of the aforementioned engineering controls is the preferred method of providing personal protection from hazards identified at this and any site. PPE provides acceptable secondary recourse, but only when engineering controls fail or cannot adequately eliminate exposure to the hazard. The use of PPE is intended to provide protection for onsite personnel from chemical, physical, and operational hazards that cannot be controlled through other safety procedures or work practices.

PPE required to be onsite for each worker during this project will include:

☒ Hard Hat (with/without face Shield)	☒ Safety Glasses/Goggles/Face Shield
☒ Leather Work Boots	☒ Disposable inner gloves (for sample handling)
☐ Chem. Resistant Boots	☐ Chem. Resistant gloves
☒ Leather Gloves	☐ Air-Purifying Respirator (Half-/Full-Face)
☒ Ear Plugs/Muffs	☐ APR Cartridges (P100)
☒ ANSI Safety Vest	☐ Tyvek coveralls

Only ANSI approved PPE and NIOSH approved respiratory protective equipment will be assigned or use. The use applications for this equipment are summarized in the following matrix. Specific procedures are further described below.

	PPE												
TASKS	Hard Hat	Safety Glasses	Leather Boots	Chemical Resistant Boots	Disposable Inner Gloves	Chemical Resistant Gloves	Leather Gloves	Ear Plugs/Muffs	Air-Purifying Respirator	APR Cartridges	ANSI Safety Vest	Tyvek Coveralls	Other
General Survey/Non-Intrusive Activities	**X**	**X**	**X**					**X**			**X**		
Soil Sampling Activities (direct push/hand auger)	**X**	**X**	**X**		**X**		**X**	**X**			**X**		

5.1 Personal Protective Equipment – Level D Protection

The protective equipment to be donned by personnel is listed as follows:

- Body Protection: Body protection shall include the use of "work clothing," including long pants and long- or short-sleeved shirts, and Class II ANSI approve safety vest.
- Head Protection: Non-metallic hard hats shall be worn by all personnel; ref. T8 CCR §§1514 & 3385 Head Protection.
- Hearing Protection: Hearing protection shall include the use of foam ear inserts or muffs; ref. T8 CCR §5098.
- Eye Protection: Protective eye wear (i.e., safety glasses) shall be worn by personnel working in direct proximity to operating heavy equipment and highway traffic; ref. T8 CCR §§1514 & 3385 Eye Protection.
- Hand Protection: Appropriate hand protection shall be required for employees whose work involves unusual and excessive exposure of hands to cuts capable of causing injury or impairments; ref. T8 CCR §§1514 & 3384 Hand Protection.
- Foot Protection: foot protection, such as steel toed shoes or boots shall be required for employees who are exposed to foot injuries from electrical hazards, falling objects, or crushing or penetrating actions; ref. T8 CCR §§1514 & 3385 Foot Protection.

5.2 Protective Clothing (Level C)

Level D Protection may be up-graded to Level C protection without justification if at any time the effectiveness of controls is a concern. However, Level C protection shall only be downgraded upon approval by the Project Manager in consultation with the Consulting CIH.

Respiratory protection will include full-face or half-mask air-purifying respirators fitted with P100 filter (HEPA; magenta) cartridges for personnel handling dry, dusty materials suspected of containing lead.

5.3 Miscellaneous Safety Equipment

Additional protective equipment to be available to personnel working at the site is either a portable radios/walkie talkies or cell phones.

6.0 DECONTAMINATION

The following decontamination (cleansing/disposal) procedures for equipment and PPE have been developed with the intent of reducing the potential for the transfer of lead-impacted soil from the project site. When feasible, decontamination should be performed in direct proximity to each work area.

6.1 Equipment Decontamination

Decontamination (cleansing/disposal) procedures for equipment and PPE have been developed with the intent of reducing the potential for the transfer of lead-impacted soil from the sites. Decontamination should be performed in direct proximity to each work area. The primary principle in consideration of decontamination procedures is: Avoid Unnecessary Contamination of PPE and Sampling Equipment.

Decontamination of sampling equipment shall include washing with a solution of TSP, Alconox®, or Liquinox® and water followed by a double rinse of deionized water between samples and before vacating the work area.

6.2 PPE Decontamination

The Project Manager will determine the necessity and arrange for appropriate decontamination of PPE on this project. Consumable PPE may be discarded as general refuse. Brush loose dust and soil from pants and shoes before entering vehicles. Respirator decontamination, if required, shall include a wash with soap and water followed by a clean water rinse. Respirators shall be thoroughly dried and wiped with a respirator wipe pad (disinfectant) prior to storage.

7.0 EMERGENCY RESPONSE PROCEDURES

7.1 Physical Injury

In the event of an accident resulting in physical injury, call emergency service personnel immediately and perform first aid commensurate with training and seriousness of the injury. Severely injured personnel are to be transported only by emergency service personnel and/or by ambulance personnel, unless a life-threatening condition is judged to exist that must be addressed immediately.

7.2 Catastrophic Event

The Project Manager is to be notified by the SSO as soon after the injury as practical, regarding the nature of the accident. The Project Manager or designee will prepare a written report within 24 hours of the accident.

In the event of a catastrophic event (e.g., severe personal injury, fire, explosion, and/or property damage), notify the fire/safety and rescue department immediately by dialing 911.

Any accident involving serious injury will require suspension of site activities until the Project Manager (or designee) has completed a review of the events and site conditions and authorized work to resume.

The Project Manager (or designee) will notify the nearest Cal/OSHA District Office immediately (within 8-hours) by phone or fax upon learning of a death or serious injury:

West Covina District Office
190 West Garvey Avenue South, Suite 200
West Covina, CA 91790

Tel: (626) 472-0046
Fax: (626) 472-7708

7.3 Emergency Telephone Numbers

Fire/Police/Medical Assistance:	**911**
Poison Control:	**(800) 876-4766**

Other phone numbers may be available or required for emergency response at specific sites. Check with onsite representatives before mobilizing to the job site.

7.4 Project Site Address

Site Name/Location Route 10 HOV Lane Widening Project
Segments 2 and 3, Puente Avenue to Route 57
Los Angeles County, California

7.5 Hospital Address and Route

Hospital Reference: Queen of the Valley Hospital
1115 South Sunset Avenue
West Covina, California 91790
626-962-4011

Directions: From Route 10, take Exit 34A Pacific Ave/West Covina Parkway and turn right. Continue on W. Covina Parkway. Turn right on S Sunset Ave. Hospital will be on right (see Vicinity Map, Figure 1).

8.0 PLAN APPROVAL

The undersigned has reviewed and approved this Health and Safety Plan prepared for the aerially deposited lead site investigation project along Route 10 in Los Angeles County, as described herein.

Douglas S. Krause, CIH - Krause & Associates
Geocon Consulting Certified Industrial Hygienist
ABIH Certification No. 2123, Exp. June 1, 2015

THE AMERICAN BOARD OF INDUSTRIAL HYGIENE
INCORPORATED
CERTIFICATION NUMBER
2123 CP
EXPIRES
6-1-2015
PENNSYLVANIA - 1960
DOUGLAS S. KRAUSE, CIH

January 17, 2011
Date

Mike Conkle, PG
Geocon Project Manager

January 18, 2011
Date

The following personnel, including subcontractors involved with the project activities have reviewed, or received a copy of this Plan and Attachment A, and agree to follow the health and safety procedures described herein.

Print Name	Title	Signature	Date

I. SUBSTANCE IDENTIFICATION INORGANIC LEAD

A Substance: Pure lead (Pb) is a heavy metal at room temperature and pressure and is a basic chemical element. It can combine with various other substances to form numerous lead compounds.

B Compounds covered by the standard: The word "lead" when used in this standard means elemental lead, all inorganic lead compounds and a class of organic lead compounds called lead soaps. This standard does not apply to other organic lead compounds.

C Uses: Exposure to lead occurs in several different occupations in the construction industry, including demolition or salvage of structures where lead or lead-containing materials are present; removal or encapsulation of lead-containing materials, new construction, alteration, repair, or renovation of structures that contain lead or materials containing lead; installation of products containing lead. In addition, there are construction related activities where exposure to lead may occur, including transportation, disposal, storage, or containment of lead or materials containing lead on construction sites, and maintenance operations associated with construction activities.

D Permissible exposure: The permissible exposure limit (PEL) set by the standard is 50 micrograms of lead per cubic meter of air (50 µg/m3) averaged over an 8-hour workday.

E Action level: The standard establishes an action level of 30 micrograms of lead per cubic meter of air (30 µg/m3) averaged over an 8-hour workday. The action level triggers several ancillary provisions of the standard such as exposure monitoring, medical surveillance, and training.

II. HEALTH HAZARD DATA

A Ways in which lead enters your body. When absorbed into your body in certain doses, lead is a toxic substance. The object of the lead standard is to prevent absorption of harmful quantities of lead. The standard is intended to protect you not only from the immediate toxic effects of lead, but also from the serious toxic effects that may not become apparent until years of exposure have passed. Lead can be absorbed into your body by inhalation (breathing) and ingestion (eating). Lead (except for certain organic lead compounds not covered by the standard, such as tetraethyl lead) is not absorbed through your skin. When lead is scattered in the air as a dust, fume or mist it can be inhaled and absorbed through your lungs and upper respiratory tract. Inhalation of airborne lead is generally the most important source of occupational lead absorption. You can also absorb lead through your digestive system if lead gets into your mouth and is swallowed. If you handle food, cigarettes, chewing tobacco, or make-up which have lead on them or handle them with hands contaminated with lead, this will contribute to ingestion. A significant portion of the lead that you inhale or ingest gets into your blood stream. Once in your blood stream, lead is circulated throughout your body and stored in various organs and body tissues. Some of this lead is quickly filtered out of your body and excreted, but some remains in the blood and other tissues. As exposure to lead continues, the amount stored in your body will increase if you are absorbing more lead than your body is excreting. Even though you may not be aware of any immediate symptoms of disease, this lead stored in your tissues can be slowly causing irreversible damage, first to individual cells, then to your organs and whole body systems.

B Effects of overexposure to lead.

1. Short term (acute) overexposure. Lead is a potent, systemic poison that serves no known useful function once absorbed by your body. Taken in large enough doses, lead can kill you in a matter of days. A condition affecting the brain called acute encephalopathy may arise which develops quickly to seizures, coma, and death from cardiorespiratory arrest. A short term dose of lead can lead to acute encephalopathy. Short term occupational exposures of this magnitude are highly unusual, but not impossible. Similar forms of encephalopathy may, however, arise from extended, chronic exposure to lower doses of lead. There is no sharp dividing line between rapidly developing acute effects of lead, and chronic effects which take longer to acquire. Lead

adversely affects numerous body systems, and causes forms of health impairment and disease which arise after periods of exposure as short as days or as long as several years.

2. Long-term (chronic) overexposure. Chronic overexposure to lead may result in severe damage to your blood-forming, nervous, urinary and reproductive systems. Some common symptoms of chronic overexposure include loss of appetite, metallic taste in the mouth, anxiety, constipation, nausea, pallor, excessive tiredness, weakness, insomnia, headache, nervous irritability, muscle and joint pain or soreness, fine tremors, numbness, dizziness, hyperactivity and colic. In lead colic there may be severe abdominal pain. Damage to the central nervous system in general and the brain (encephalopathy) in particular is one of the most severe forms of lead poisoning. The most severe, often fatal, form of encephalopathy may be preceded by vomiting, a feeling of dullness progressing to drowsiness and stupor, poor memory, restlessness, irritability, tremor, and convulsions. It may arise suddenly with the onset of seizures, followed by coma, and death. There is a tendency for muscular weakness to develop at the same time. This weakness may progress to paralysis often observed as a characteristic "wrist drop" or "foot drop" and is a manifestation of a disease to the nervous system called peripheral neuropathy. Chronic overexposure to lead also results in kidney disease with few, if any, symptoms appearing until extensive and most likely permanent kidney damage has occurred. Routine laboratory tests reveal the presence of this kidney disease only after about two-thirds of kidney function is lost. When overt symptoms of urinary dysfunction arise, it is often too late to correct or prevent worsening conditions, and progression to kidney dialysis or death is possible. Chronic overexposure to lead impairs the reproductive systems of both men and women. Overexposure to lead may result in decreased sex drive, impotence and sterility in men. Lead can alter the structure of sperm cells raising the risk of birth defects. There is evidence of miscarriage and stillbirth in women whose husbands were exposed to lead or who were exposed to lead themselves. Lead exposure also may result in decreased fertility, and abnormal menstrual cycles in women. The course of pregnancy may be adversely affected by exposure to lead since lead crosses the placental barrier and poses risks to developing fetuses. Children born of parents either one of whom were exposed to excess lead levels are more likely to have birth defects, mental retardation, behavioral disorders or die during the first year of childhood. Overexposure to lead also disrupts the blood-forming system resulting in decreased hemoglobin (the substance in the blood that carries oxygen to the cells) and ultimately anemia. Anemia is characterized by weakness, pallor and fatigability as a result of decreased oxygen carrying capacity in the blood.

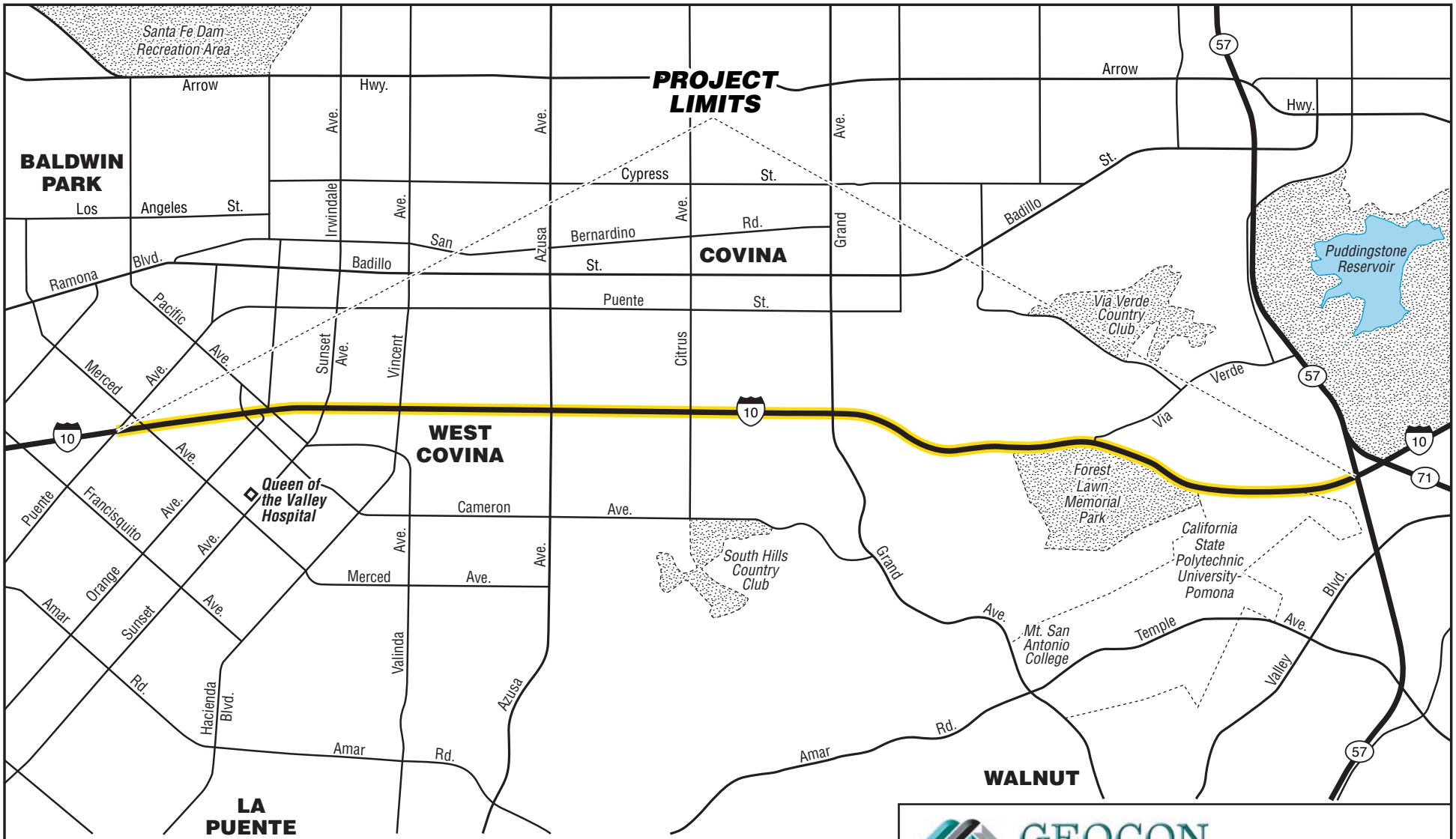
3. Exposure to lead throughout a working lifetime requires that a worker's blood lead level (BLL, also expressed as PbB) be maintained at or below forty micrograms per deciliter of whole blood (40 µg/dl). The blood lead levels of workers (both male and female workers) who intend to have children should be maintained below 30 µg/dl to minimize adverse reproductive health effects to the parents and to the developing fetus. The measurement of your blood lead level (BLL) is the most useful indicator of the amount of lead being absorbed by your body. Blood lead levels are most often reported in units of milligrams (mg) or micrograms (ug) of lead (1 mg=1000 mg) per 100 grams (100g), 100 milliliters (100 ml) or deciliter (dl) of blood. These three units are essentially the same. Sometime BLLs are expressed in the form of mg% or mg%. This is a shorthand notation for 100g, 100 ml, or dl. (Reference to BLL measurements in this standard are expressed in the form of µg/dl.)

   BLL measurements show the amount of lead circulating in your blood stream, but do not give any information about the amount of lead stored in your various tissues. BLL measurements merely show current absorption of lead, not the effect that lead is having on your body or the effects that past lead exposure may have already caused. Past research into lead-related diseases, however, has focused heavily on associations between BLLs and various diseases. As a result, your BLL is an important indicator of the likelihood that you will gradually acquire a lead-related health impairment or disease.

Once your blood lead level climbs about 40 µg/dl, your risk of disease increases. There is a wide variability of individual response to lead, thus it is difficult to say that a particular BLL in a given person will cause a particular effect. Studies have associated fatal encephalopathy with BLLs as low as 150 µg/dl. Other studies have shown other forms of diseases in some workers with BLLs well below 80 µg/dl. Your BLL is a crucial indicator of the risks to your health, but one other factor is also extremely important. This factor is the length of time you have had elevated BLLs. The longer you have an elevated BLL, the greater the risk that large quantities of lead are being gradually stored in your organs and tissues (body burden). The greater your overall body burden, the greater the chances of substantial permanent damage. The best way to prevent all forms of lead-related impairments and diseases -- both short term and long term -- is to maintain your BLL below 40 µg/dl. The provisions of the standard are designed with this end in mind.

Your employer has prime responsibility to assure that the provisions of the standard are complied with both by the company and by individual workers. You, as a worker, however, also have a responsibility to assist your employer in complying with the standard. You can play a key role in protecting your own health by learning about the lead hazards and their control, learning what the standard requires, following the standard where it governs your own actions, and seeing that your employer complies with provisions governing his or her actions.

4. Reporting signs and symptoms of health problems. You should immediately notify your employer if you develop signs or symptoms associated with lead poisoning or if you desire medical advice concerning the effects of current or past exposure to lead or your ability to have a healthy child. You should also notify your employer if you have difficulty breathing during a respirator fit test or while wearing a respirator. In each of these cases, your employer must make available to you appropriate medical examinations or consultations. These must be provided at no cost to you and at a reasonable time and place. The standard contains a procedure whereby you can obtain a second opinion by a physician of your choice if your employer selected the initial physician.



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Route 10 HOV Lane Widening Project		
Los Angeles County, California	**VICINITY MAP**	
GEOCON Proj. No. S9500-06-04		
Task Order No. 11	January 2011	Figure 1

APPENDIX B

Photo 1 – View of boring 1127-101 location

Photo 2 – Vicinity of boring 1127-101 location

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SITE PHOTOS 1 and 2		
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Photo 3 – View of boring 1127-102 location

Photo 4 – Vicinity of boring 1127-102 location

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SITE PHOTOS 3 & 4		
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Photo 5 – View of boring 1127-103 location

Photo 6 – Vicinity of boring 1127-103 location

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SITE PHOTOS 5 & 6		
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Photo 7 – View of boring 1127-104 location

Photo 8 – Vicinity of boring 1127-104 location

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SITE PHOTOS 7 & 8		
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Photo 9 – View of boring 1127-105 location

Photo 10 – Vicinity of boring 1127-105 location

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SITE PHOTOS 9 & 10		
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Photo 11 – View of boring 1127-106 location

Photo 12 – Vicinity of boring 1127-106 location

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SITE PHOTOS 11 & 12		
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Photo 13 – View of boring 1127-107 location

Photo 14 – Vicinity of boring 1127-107 location

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SITE PHOTOS 13 & 14		
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Photo 15 – View of boring 1127-109 location

Photo 16 – Vicinity of boring 1127-109 location

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SITE PHOTOS 15 & 16		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 17 – View of boring 1127-110 location

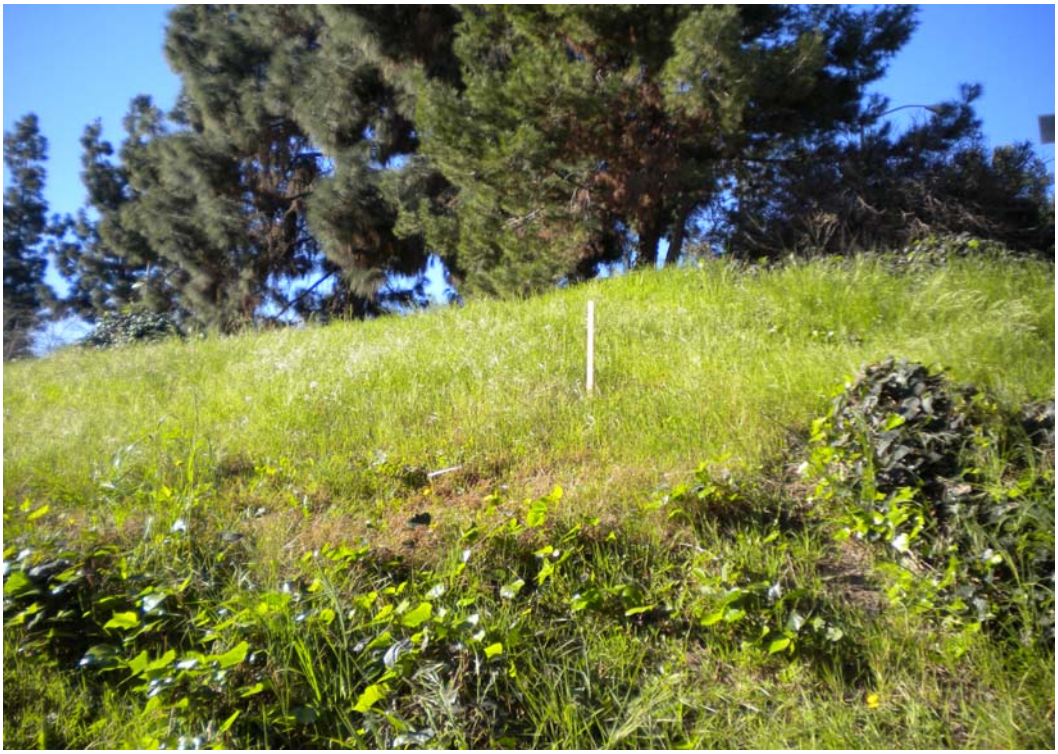

Photo 18 – Vicinity of boring 1127-110 location

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SITE PHOTOS 17 & 18		
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Photo 19 – View of boring 1127-111 location

Photo 20 – Vicinity of boring 1127-111 location

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SITE PHOTOS 19 & 20		
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Photo 21 – View of boring 1127-112 location

Photo 22 – Vicinity of boring 1127-112 location

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SITE PHOTOS 21 & 22		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 23 – View of boring 1127-113 location

Photo 24 – Vicinity of boring 1127-113 location

SITE PHOTOS 23 & 24		
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Photo 25 – View of boring 1127-114 location

Photo 26 – Vicinity of boring 1127-114 location

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SITE PHOTOS 25 & 26		
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Photo 27- View of boring 1127-115 location

Photo 28 – Vicinity of boring 1127-115 location

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SITE PHOTOS 27 & 28		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 29- View of boring 1127-116 location

Photo 30 – Vicinity of boring 1127-116 location

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SITE PHOTOS 29 & 30		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 31- View of boring 1127-117 location

Photo 32 – Vicinity of boring 1127-117 location

SITE PHOTOS 31 & 32		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 33- View of boring 1127-118 location

Photo 34 – Vicinity of boring 1127-118 location

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SITE PHOTOS 33 & 34		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 35 - View of boring 1127-119 location

Photo 36 – Vicinity of boring 1127-119 location

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SITE PHOTOS 35 & 36		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 37 - View of boring 1127-120 location

Photo 38 – Vicinity of boring 1127-120 location

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SITE PHOTOS 37 & 38		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 39 - View of boring 1127-121 location

Photo 40 – Vicinity of boring 1127-121 location

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SITE PHOTOS 39 & 40		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 41 - View of boring 1127-122 location

Photo 42 – Vicinity of boring 1127-122 location

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SITE PHOTOS 41 & 42		
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Photo 43 - View of boring 1127-123 location

Photo 44 – Vicinity of boring 1127-123 location

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SITE PHOTOS 43 & 44		
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Photo 45 - View of boring 1127-124 location

Photo 46 – Vicinity of boring 1127-124 location

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SITE PHOTOS 45 & 46		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 47 - View of boring 1127-125 location

Photo 48 – Vicinity of boring 1127-125 location

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SITE PHOTOS 47 & 48		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 49 - View of boring 1127-126 location

Photo 50 – Vicinity of boring 1127-126 location

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SITE PHOTOS 49 & 50		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 51 - View of boring 1127-127 location

Photo 52 – Vicinity of boring 1127-127 location

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Photo 53 - View of boring 1127-128 location

Photo 54 – Vicinity of boring 1127-128 location

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Photo 55 - View of boring 1127-129 location

Photo 56 – Vicinity of boring 1127-129 location

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Photo 57 - View of boring 1127-130 location

Photo 58 – Vicinity of boring 1127-130 location

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Photo 59 - View of boring 1127-131 location

Photo 60 – Vicinity of boring 1127-131 location

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Photo 61 - View of boring 1127-132 location

Photo 62 – Vicinity of boring 1127-132 location

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Photo 63 - View of boring 1127-133 location

Photo 64 – Vicinity of boring 1127-133 location

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Photo 65 - View of boring 1127-134 location

Photo 66 – Vicinity of boring 1127-134 location

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Photo 67 - View of boring 1127-135 location

Photo 68 – Vicinity of boring 1127-135 location

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Photo 69 - View of boring 1127-136 location

Photo 70 – Vicinity of boring 1127-136 location

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Photo 71 - View of boring 1127-137 location

Photo 72 – Vicinity of boring 1127-137 location

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SITE PHOTOS 71 & 72		
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Photo 73 - View of boring 1127-138 location

Photo 74 – Vicinity of boring 1127-138 location

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SITE PHOTOS 73 & 74		
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Photo 75 - View of boring 1127-139 location

Photo 76 – Vicinity of boring 1127-139 location

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SITE PHOTOS 75 & 76		
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Photo 77 - View of boring 1127-140 location

Photo 78 – Vicinity of boring 1127-140 location

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SITE PHOTOS 77 & 78		
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Photo 79 - View of boring 1127-141 location

Photo 80 – Vicinity of boring 1127-141 location

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SITE PHOTOS 79 & 80		
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Photo 81 - View of boring 1127-142 location

Photo 82 – Vicinity of boring 1127-142 location

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Photo 83 - View of boring 1127-143 location

Photo 84 – Vicinity of boring 1127-143 location

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SITE PHOTOS 83 & 84		
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Photo 85 - View of boring 1127-144 location

Photo 86 – Vicinity of boring 1127-144 location

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SITE PHOTOS 85 & 86		
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Photo 87 - View of boring 1127-145 location

Photo 88 – Vicinity of boring 1127-145 location

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SITE PHOTOS 87 & 88		
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Photo 89 - View of boring 1127-146 location

Photo 90 – Vicinity of boring 1127-146 location

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SITE PHOTOS 89 & 90		
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Photo 91 - View of boring 1127-147 location

Photo 92 – Vicinity of boring 1127-147 location

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SITE PHOTOS 91 & 92		
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S9500-06-04		May 2011

Photo 93 - View of boring 1127-148 location

Photo 94 – Vicinity of boring 1127-148 location

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SITE PHOTOS 93 & 94		
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S9500-06-04		May 2011

Photo 95 - View of boring 1127-149 location

Photo 96 – Vicinity of boring 1127-149 location

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SITE PHOTOS 95 & 96		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 97 - View of boring 1127-150 location

Photo 98 – Vicinity of boring 1127-150 location

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SITE PHOTOS 97 & 98		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 99 - View of boring 1127-152 location

Photo 100 – Vicinity of boring 1127-152 location

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SITE PHOTOS 99 & 100		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 101 - View of boring 1127-154 location

Photo 102 – Vicinity of boring 1127-154 location

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SITE PHOTOS 101 & 102		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 103 - View of boring 1127-155 location

Photo 104 – Vicinity of boring 1127-155 location

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SITE PHOTOS 103 & 104		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 105 - View of boring 1127-156 location

Photo 106 – Vicinity of boring 1127-156 location

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SITE PHOTOS 105 & 106		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 107 - View of boring 1127-157 location

Photo 108 – Vicinity of boring 1127-157 location

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SITE PHOTOS 107 & 108		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 109 - View of boring 1127-158 location

Photo 110 – Vicinity of boring 1127-158 location

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SITE PHOTOS 109 & 110		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 111 - View of boring 1127-159 location

Photo 112 – Vicinity of boring 1127-159 location

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SITE PHOTOS 111 & 112		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 113 – Vicinity of boring 1127-160 location

Photo 114 – Vicinity of boring 1127-160 location

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SITE PHOTOS 113 & 114		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 115 - View of boring 1127-161 location

Photo 116 – Vicinity of boring 1127-161 location

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SITE PHOTOS 115 & 116		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 117 - View of boring 1127-162 location

Photo 118 – Vicinity of boring 1127-162 location

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SITE PHOTOS 117 & 118		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 119 - View of boring 1127-163 location

Photo 120 – Vicinity of boring 1127-163 location

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SITE PHOTOS 119 & 120		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 121 - View of boring 1127-164 location

Photo 122 – Vicinity of boring 1127-164 location

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SITE PHOTOS 121 & 122		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
S9500-06-04		May 2011

Photo 123 - View of boring 1127-165 location

Photo 124 – Vicinity of boring 1127-165 location

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SITE PHOTOS 123 & 124		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 125 - View of boring 1127-166 location

Photo 126 – Vicinity of boring 1127-166 location

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SITE PHOTOS 125 & 126		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 127 - View of boring 1127-167 location

Photo 128 – Vicinity of boring 1127-167 location

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SITE PHOTOS 127 & 128		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
S9500-06-04		May 2011

Photo 129 - View of boring 1127-168 location

Photo 130 – Vicinity of boring 1127-168 location

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SITE PHOTOS 129 & 130		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 131 - View of boring 1127-169 location

Photo 132 – Vicinity of boring 1127-169 location

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SITE PHOTOS 131 & 132		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 133 - View of boring 1127-170 location

Photo 134 – Vicinity of boring 1127-170 location

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SITE PHOTOS 133 & 134		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 135 - View of boring 1127-172 location

Photo 136 – Vicinity of boring 1127-172 location

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SITE PHOTOS 135 & 136		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 137 - View of boring 1127-174 location

Photo 138 – Vicinity of boring 1127-174 location

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SITE PHOTOS 137 & 138		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 139 - View of boring 1127-175 location

Photo 140 – Vicinity of boring 1127-170 location

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SITE PHOTOS 139 & 140		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 141 - View of boring 1127-176 location

Photo 142 – Vicinity of boring 1127-176 location

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SITE PHOTOS 141 & 142		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 143 - View of boring 1127-177 location

Photo 144 – Vicinity of boring 1127-177 location

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SITE PHOTOS 143 & 144		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 145 - View of boring 1127-178 location

Photo 146 – Vicinity of boring 1127-178 location

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SITE PHOTOS 145 & 146		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
S9500-06-04		May 2011

Photo 147 - View of boring 1127-179 location

Photo 148 – Vicinity of boring 1127-179 location

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SITE PHOTOS 147 & 148		
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Photo 149 - View of boring 1127-180 location

Photo 150 – Vicinity of boring 1127-180 location

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SITE PHOTOS 149 & 150		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 151 - View of boring 1127-181 location

Photo 152 – Vicinity of boring 1127-181 location

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SITE PHOTOS 151 & 152		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 153 - View of boring 1127-182 location

Photo 154 – Vicinity of boring 1127-182 location

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SITE PHOTOS 153 & 154		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 155 - View of boring 1127-183 location

Photo 156 – Vicinity of boring 1127-183 location

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SITE PHOTOS 155 & 156		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 157 - View of boring 1127-184 location

Photo 158 – Vicinity of boring 1127-184 location

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SITE PHOTOS 157 & 158		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 159 - View of boring 1127-185 location

Photo 160 – Vicinity of boring 1127-185 location

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SITE PHOTOS 159 & 160		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 161 - View of boring 1127-186 location

Photo 162 – Vicinity of boring 1127-186 location

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SITE PHOTOS 161 & 162		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 163 - View of boring 1127-187 location

Photo 164 – Vicinity of boring 1127-187 location

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SITE PHOTOS 163 & 164		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 165 - View of boring 1127-188 location

Photo 166 – Vicinity of boring 1127-188 location

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SITE PHOTOS 165 & 166		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 167 - View of boring 1127-189 location

Photo 168 – Vicinity of boring 1127-189 location

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SITE PHOTOS 167 & 168		
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Photo 169 - View of boring 1127-190 location

Photo 170 – Vicinity of boring 1127-190 location

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SITE PHOTOS 169 & 170		
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Photo 171 - View of boring 1127-191 location

Photo 172 – Vicinity of boring 1127-191 location

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SITE PHOTOS 171 & 172		
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Photo 173 - View of boring 1127-192 location

Photo 174 – Vicinity of boring 1127-192 location

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SITE PHOTOS 173 & 174		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 175 – View of boring 1127-193 location

Photo 176 – Vicinity of boring 1127-193 location

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SITE PHOTOS 175 & 176		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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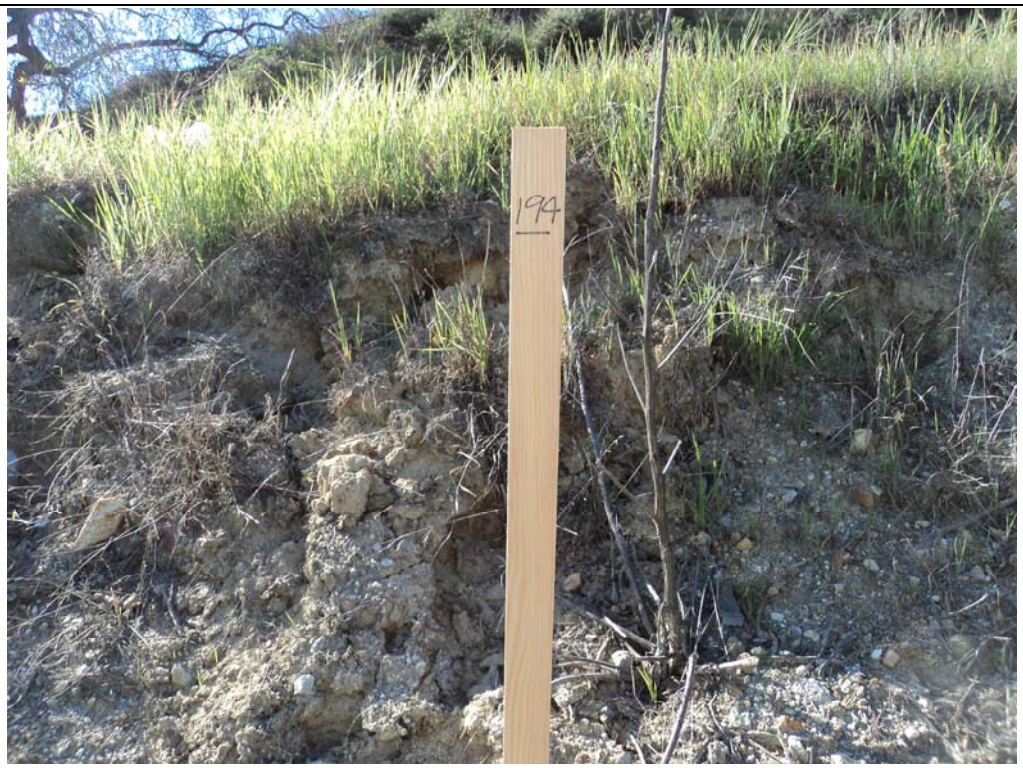

Photo 177 - View of boring 1127-194 location

Photo 178 – Vicinity of boring 1127-194 location

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SITE PHOTOS 177 & 178		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 179 - View of boring 1127-195 location

Photo 180 – Vicinity of boring 1127-195 location

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SITE PHOTOS 179 & 180		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 181 – View of boring 1127-196 location

Photo 182 – Vicinity of boring 1127-196 location

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SITE PHOTOS 181 & 182		
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Photo 183 – View of boring 1127- 201 location

Photo 184 – View of boring 1127-202 location

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SITE PHOTOS 183 & 184		
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Photo 185 – View of boring 1127-203 location

Photo 186 – View of boring 1127-204 location

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SITE PHOTOS 185 & 186		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 187 – View of boring 1127-205 location

Photo 188 – View of boring 1127-206 location

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SITE PHOTOS 187 & 188		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
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Photo 189 – View of boring 1127-207 location

Photo 190 – View of boring 1127-208 location

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SITE PHOTOS 189 & 190		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
S9500-06-04		May 2011

Photo 191 – View of boring 1127-209 location

Photo 192 – View of boring 1127-210 location

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SITE PHOTOS 191 & 192		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
S9500-06-04		May 2011

Photo 193 – View of boring 1127-211 location

Photo 194 – View of boring 1127-212 location

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SITE PHOTOS 193 & 194		
ADL Soil Investigation Interstate 10 Freeway Los Angeles County, California		
S9500-06-04		May 2011

GEOCON CONSULTANTS, INC.
CALTRANS CONTRACT NO. 07A2730
TASK ORDER NO. 11
GEOCON PROJECT S9500-06-04
PROJECT FIELD LOG

Date: 1/19/11

PROJECT NAME: ROUTE 10 ADL	
CALTRANS ONSITE REP: SAM YANG	GEOCON PROJECT MANAGER: MIKE CONKLE
FIELD ACTIVITY: Marking of boring/utilities	SUBCONTRACTOR:
PREVAILING WAGE ☐ YES ☑ NO	MILEAGE Start: End:

0725 Mike Akoto arrived at the site to meet with Sam Yang, Caltrans representative.
0730 Began to walk around to survey various bridges along the 10 freeway.
0832 Received a phone-call from Sam Yang that he will be running a late due to traffic.
0836 Sam and Oscar both of Caltrans arrived at the site.
0938 Held a brief meeting at Taft in the bay off Dalewood and a short-health and safety meeting.
1008 Began marking borings locations and utilities starting from Pueblo Ave under crossing slopes
1015 Completed marking boring locations at Pueblo Ave.
1018 Continued to Carmen Ave.
1125 Began marking boring location along Carmen Ave.
1130 Completed marking boring locations along Carmen Ave. U.S.A. marking for utilities were also done along with marking of borings.
1135 Began marking borings locations along West Covina Parkway / Pacific Ave.
1140 Completed marking borings, U.S.A. marking for utilities at West Covina Parkway.
1145 Began marking boring locations along the slope at Vincent Ave / under carriage.
1150 Completed marking boring and U.S.A. marking at Vincent Ave.
1202 Continued to mark boring locations and utilities

Employee Name	Field Time	Employee Name	Field Time
Mike Akoto	8 hrs		

PREPARED BY:	APPROVED BY:

GEOCON CONSULTANTS, INC.
CALTRANS CONTRACT NO. 07A2730
TASK ORDER NO. 11
GEOCON PROJECT S9500-06-04
PROJECT FIELD LOG

Date: 1/19/11

PROJECT NAME: ROUTE 10 ADL	
CALTRANS ONSITE REP: SAM YANG	GEOCON PROJECT MANAGER: MIKE CONKLE
FIELD ACTIVITY: Marking of borings/utilities	SUBCONTRACTOR:
PREVAILING WAGE ☐ YES ☑ NO	MILEAGE Start:_____ End:_____

at Lark Ellen Ave UC.
1205 Completed marking borings and USA marking for utilities at Lark Ellen Ave UC.
1210 Began marking borings and USA markings at Azusa Ave UC.
1215 Completed marking borings and USA markings at Azusa Ave.
1220 Began marking borings and USA markings at Hollenbeck St UC.
1228 Completed marking borings and USA marking at Hollenbeck St. UC.
1230 took a short lunch break.
1305 Began marking borings at Citrus Ave Under Cames.
1310 Completed marking borings and U.SA marking at Citrus Ave.
1320 Began marking borings, putting in stakes and marking USA at Grand Ave.
1325 Completed marking borings and USA markings at Grand Ave UC.
1335 Began Marking borings putting in stakes and USA markings at Holt Ave. UC.
1340 Completed marking borings, putting in stakes and USA markings at Holt Ave.
1345 Began marking marking borings putting in stakes and US markings at Vista Verde UC.
1402 Completed marking borings putting in stakes and marking for utilities at Vista Verde UC.

Employee Name	Field Time	Employee Name	Field Time
Mike Alcoto	8 hrs		

PREPARED BY:	APPROVED BY:

GEOCON CONSULTANTS, INC.
CALTRANS CONTRACT NO. 07A2730
TASK ORDER NO. 11
GEOCON PROJECT S9500-06-04
PROJECT FIELD LOG

Date: 1/19/11

PROJECT NAME: ROUTE 10 ADL	
CALTRANS ONSITE REP: SAM YANG	GEOCON PROJECT MANAGER: MIKE CONKLE
FIELD ACTIVITY: Marking of boring/utilities	SUBCONTRACTOR:
PREVAILING WAGE ☐ YES ☑ NO	MILEAGE Start:_____ End:_____

1410 Began marking borings, putting in stakes and marking of utilities at Kellogg Drive.
1415 Completed marking borings, putting in stakes and markings of utilities at Kellogg Drive.
1420 Drove back to Barranca on-ramp along the freeway to mark boring location and utilities.
1430 Completed marking borings putting in stakes and USA markings at West side of the freeway.
1445 Began marking borings along the east side of the freeway around Barranca exit ramp.
1453 Completed marking borings, putting in stakes and markings for utilities.
1520 Completed work for the day and offsite.

Employee Name	Field Time	Employee Name	Field Time
Mike Alcoto	8 hrs		

PREPARED BY:	APPROVED BY:

GEOCON CONSULTANTS, INC.
CALTRANS CONTRACT NO. 07A2730
TASK ORDER NO. 11
GEOCON PROJECT S9500-06-04
PROJECT FIELD LOG

Date: 1/24/2011

PROJECT NAME: ROUTE 10 ADL	
CALTRANS ONSITE REP: SAM YANG	GEOCON PROJECT MANAGER: MIKE CONKLE
FIELD ACTIVITY: Soil Sampling 10 Freeway	SUBCONTRACTOR:
PREVAILING WAGE ☐ YES ☑ NO	MILEAGE Start:_____ End:_____

0700 Mike Alcota, Selisa Thomas, Cesar Lanis, and Matt Lehin arrived at Jack in the Box the Meeting Area at the Site. Sam Yang also arrived later.
0730 Held health and Safety Meeting. Discuss how the sampling was going to be done. Divided into two groups.
0855. Set-off to our various locations to start sampling.
0900 Began sampling at boring 1127-102 at Puente Avenue.
0933 Completed sampling boring 1127-102. Logged the soil and took pictures of the boring location. Moved to the next boring location boring 1127-101
1004 Began sampling boring 1127-101.
1042 Completed sampling boring 1127-101, Hit refusal at 6 feet. Took pictures of the boring location and logged the soil. Moved to the next ~~Sam~~ boring 1127-103.
1112 Began sampling boring 1127-103. Hit refusal at 2 feet due to gravel. Took pictures and logged the soil. Moved to the next boring location boring 1127-104. Took a short lunch break.
1200 Moved to boring 1127-104 and ~~to~~ continued sampling.
1211 Collected soil samples up to 4 feet and

Employee Name	Field Time	Employee Name	Field Time
Mike Alcota	9.00		
Selisa Thomas	8.00		

PREPARED BY:	APPROVED BY:

GEOCON CONSULTANTS, INC.
CALTRANS CONTRACT NO. 07A2730
TASK ORDER NO. 11
GEOCON PROJECT S9500-06-04
PROJECT FIELD LOG

Date: 1/19/11

PROJECT NAME: ROUTE 10 ADL	
CALTRANS ONSITE REP: SAM YANG	GEOCON PROJECT MANAGER: MIKE CONKLE
FIELD ACTIVITY: Marking of borings/utilities	SUBCONTRACTOR:
PREVAILING WAGE ☐ YES ☑ NO	MILEAGE Start:_____ End:_____

at Lark Ellen Ave UC.
1205 Completed marking borings and USA marking for utilities at Lark Ellen Ave UC.
1210 Began marking borings and USA markings at Azusa Ave UC.
1215 Completed marking borings and USA markings at Azusa Ave.
1220 Began marking borings and USA markings at Hollenbeck St UC.
1228 Completed marking borings and USA marking at Hollenbeck St. UC.
1230 took a short lunch break.
1305 Began marking borings at Citrus Ave Under Cames.
1310 Completed marking borings and U.SA marking at Citrus Ave.
1320 Began marking borings, putting in stakes and marking USA at Grand Ave.
1325 Completed marking borings and USA markings at Grand Ave UC.
1335 Began Marking borings putting in stakes and USA markings at Holt Ave. UC.
1340 Completed marking borings, putting in stakes and USA markings at Holt Ave.
1345 Began marking marking borings putting in stakes and US markings at Vista Verde UC.
1402 Completed marking borings putting in stakes and marking for utilities at Vista Verde UC.

Employee Name	Field Time	Employee Name	Field Time
Mike Alcoto	8 hrs		

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CALTRANS CONTRACT NO. 07A2730
TASK ORDER NO. 11
GEOCON PROJECT S9500-06-04
PROJECT FIELD LOG

Date: 1/19/11

PROJECT NAME: ROUTE 10 ADL	
CALTRANS ONSITE REP: SAM YANG	GEOCON PROJECT MANAGER: MIKE CONKLE
FIELD ACTIVITY: Marking of boring/utilities	SUBCONTRACTOR:
PREVAILING WAGE ☐ YES ☑ NO	MILEAGE Start:_____ End:_____

1410 Began marking borings, putting in stakes and marking of utilities at Kellogg Drive.
1415 Completed marking borings, putting in stakes and markings of utilities at Kellogg Drive.
1420 Drove back to Barranca on-ramp along the freeway to mark boring location and utilities.
1430 Completed marking borings putting in stakes and USA markings at West side of the freeway.
1445 Began marking borings along the east side of the freeway around Barranca exit ramp.
1453 Completed marking borings, putting in stakes and markings for utilities.
1520 Completed work for the day and offsite.

Employee Name	Field Time	Employee Name	Field Time
Mike Alcoto	8 hrs		

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GEOCON CONSULTANTS, INC.
CALTRANS CONTRACT NO. 07A2730
TASK ORDER NO. 11
GEOCON PROJECT S9500-06-04
PROJECT FIELD LOG

Date: 7/24/11

PROJECT NAME: ROUTE 10 ADL	
CALTRANS ONSITE REP: SAM YANG	GEOCON PROJECT MANAGER: MIKE CONKLE
FIELD ACTIVITY: Soil Sampling 10 Freeway	SUBCONTRACTOR:
PREVAILING WAGE ☐ YES ☒ NO	MILEAGE Start:_____ End:_____

hit refusal.

1227 Completed sampling boring 1127-104. Took photos at the boring location. Logged the soil and moved to the next boring 1127-105.

1250 Took a short break for 20 mins and continued sampling.

1325 Continued to sample boring 1127-105.

1331 Completed sampling boring 1127-105 after hitting refusal at 4.0 feet. Took photos at the boring location and logged the soil. Moved to the next location 105.

1354 Continued to sample boring 1127-105.

1401 Completed sampling boring 1127-105 after hitting refusal at 4.0 feet. Moved to boring 1127-107.

1426. Began sampling boring 1127-107

1509 Completed sampling boring 1127-107 took pictures, logged soil.

1545 Completed sampling for the day. Jelisa Thomas took off for the day. Mike Alcoto began to double check the samples and waited for the lab guy to pick up the samples.

1655 Mike Alcoto offsite for the day.

One equipment blank sample was collected 100-EB-1 at 1530.

Employee Name	Field Time	Employee Name	Field Time
Mike Alcoto	9.0		
Jelisa Thomas	8.0		

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GEOCON CONSULTANTS, INC.
CALTRANS CONTRACT NO. 07A2730
TASK ORDER NO. 11
GEOCON PROJECT S9500-06-04
PROJECT FIELD LOG

Date: 1/24/10

PROJECT NAME: ROUTE 10 ADL	
CALTRANS ONSITE REP: SAM YANG	GEOCON PROJECT MANAGER: MIKE CONKLE
FIELD ACTIVITY: Soil Sample	SUBCONTRACTOR:
PREVAILING WAGE ☐ YES ☑ NO	MILEAGE Start: 204592 End: 204616

08:00 Arrived at the designated meeting area. Began Health & Safety meeting
08:15 Finished H&S meeting, began setup for the day
08:30 Left for first location at Pacific Ave.
08:45 Arrived at location 109, began setup
08:55 Began sampling location 109 @ 2, 4, 6'
0925 Finished location 109, moved & setup on 110
10:00 Finished location 109, moved to & set up on 112
1038 Finished location 111, moved to & set up 111
1110 Finished location 111, moved to & set up 113
1200 Finished location 113, moved to & set up 114
1218 Finished location 114, moved to & set up 116
1250 Finished location 116, moved to & set up 115
1320 Finished location 115, moved to & set up 125
1342 Finished location 125, moved to & set up 126
~~1445~~ 1425 Finished location 126, moved to & set up 128
~~1510~~ 1445 Finished location 128, ~~moved to & set up~~ moved to & set up 127
1515 Finished location 127. ~~We~~ Headed back to designated meeting area to drop off samples
1520 Arrived at meeting location dropped off samples with Mike Acosta
1530 Took Equipment Blank, had a meeting with Sam yang w/ Calt
1645 left site

Employee Name	Field Time	Employee Name	Field Time
Cesar Larios	9		
Matt Lewin	8		

PREPARED BY:	APPROVED BY:

GEOCON CONSULTANTS, INC.
CALTRANS CONTRACT NO. 07A2730
TASK ORDER NO. 11
GEOCON PROJECT S9500-06-04
PROJECT FIELD LOG

Date: 1/25/11

PROJECT NAME: ROUTE 10 ADL	
CALTRANS ONSITE REP: SAM YANG	GEOCON PROJECT MANAGER: MIKE CONKLE
FIELD ACTIVITY: Soil Sampling 10 Freeway	SUBCONTRACTOR:
PREVAILING WAGE ☐ YES ☑ NO	MILEAGE Start:_____ End:_____

0700 Mike Alcoto, ~~and~~ Jelisa Thomas, Cesar Lanas and Matt Lenn with Sam Yang arrived at the site.
0730 Held health and safety meeting for the day. Sam wanted 2 soil samples from each location that was sampled. We had to go back and sample all locations that only one sample was collected. Mike Alcoto and Jelisa Thomas ~~and~~ were working in one group.
0800 Mike Alcoto and Jelisa Thomas went back to sample boring 1127-103 where only 2 soil sample was collected.
0805 Completed sampling boring 1127-103. logged soil, Moved to boring 1127-119.
0850 Began sampling boring 1127-119
0922 Completed sampling boring 1127-119 Continued to sample boring 1127-117.
0936 Completed sampling boring 1127-117. Took pictures, logged soil and moved to the next boring 1127-120.
1013 Continued to sample boring 1127-120 and 1127-118.
1040 Completed sampling borings 1127-120 and 1127-118. Took pictures of boring locations and logged soil.
1138 Continued to sample boring 1127-124 and 1127-122
1150 Completed sampling borings 1127-124 and 1127-122 Took pictures and logged soil. Moved to the next boring location.

Employee Name	Field Time	Employee Name	Field Time
Mike Alcoto	9.00		
Jelisa Thomas	8.00		

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GEOCON CONSULTANTS, INC.
CALTRANS CONTRACT NO. 07A2730
TASK ORDER NO. 11
GEOCON PROJECT S9500-06-04
PROJECT FIELD LOG

Date: 1/25/11

PROJECT NAME: ROUTE 10 ADL	
CALTRANS ONSITE REP: SAM YANG	GEOCON PROJECT MANAGER: MIKE CONKLE
FIELD ACTIVITY: Soil Sampling 10 Freeway	SUBCONTRACTOR:
PREVAILING WAGE ☐ YES ☑ NO	MILEAGE Start:_____ End:_____

1329. Continued to sample borings 1127-121 and 1127-123.

1400 Completed sampling boring 1127-121 and 1127-123. Took pictures, land logged soil collected. Collected first equipment blank sample at 0820 and the second equipment blank sample at 1350

1445 Completed sampling logging and taking of pictures at all the borings locations

1530 Jelisa Thomas off site for the day. Mike Alcoto waited for the gas guy & pick-up sample and double checked samples collected.

Employee Name	Field Time	Employee Name	Field Time
Mike Alcoto	9.00		
Jelisa Thomas	8.00		

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CALTRANS CONTRACT NO. 07A2730
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GEOCON PROJECT S9500-06-04
PROJECT FIELD LOG

Date: 1/25/11

PROJECT NAME: ROUTE 10 ADL	
CALTRANS ONSITE REP: SAM YANG	GEOCON PROJECT MANAGER: MIKE CONKLE
FIELD ACTIVITY: Soil Sampling	SUBCONTRACTOR:
PREVAILING WAGE ☐ YES ☑ NO	MILEAGE Start: 204668 End: 204689

7:30 A Arrived on site, began set up for the days work
7:40 A Began Health & Safety meeting - conducted by Cesar Larios
7:50 A ~~Began~~ Finished H&S meeting, left to redo boring locations in which 1 sample was taken due to refusal. At the request of Sam at least 2 samples should be taken at each location, therefore an additional sample at 1 or 2 feet, depending on the sample schedual, will be taken at boring location with shallow refusal.
08:00 A Arrived at location 110 to get an additional sample, began set up.
08:34 A Moved to location 112 to get an additional sample
0846 A Moved to location 111 to get an additional sample
0856 A Moved to location 113 to get an additional sample
0916 A Moved to location 125 to get an additional sample
0955 A Moved to location 126 to get an additional sample
1005 A Moved to location 128 to get an additional sample
1025 A Moved to location 127 to get an additional sample
1040 A Finished resampleing boring's ~~con~~ excavated on 1/24/11, continued new boring on Holt St.
1055 A Arrived at location 155, began set up & excavation
1122 A Finished location 155, moved to & set up on location 156
1155 A Finished location 156, moved to & set up on location 158
1210 P Finished location 158, moved to & set up on location ~~157~~ 157
1240 Finished location 157, moved to Via Verde & set up on loc. 161
1356 Finished location 161, moved to & set up on location 159
1415 Finished location 159, moved to & set up on location 163
1435 Finished location 163, began Final clean up
1455 left location 163 1510: Arrived at Meeting site, relinquished samples to 620, left site

Employee Name	Field Time	Employee Name	Field Time
Cesar Larios	9		
Matt Lewin	8		

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GEOCON CONSULTANTS, INC.
CALTRANS CONTRACT NO. 07A2730
TASK ORDER NO. 11
GEOCON PROJECT S9500-06-04
PROJECT FIELD LOG

Date: 7/26/11

PROJECT NAME: ROUTE 10 ADL	
CALTRANS ONSITE REP: SAM YANG	GEOCON PROJECT MANAGER: MIKE CONKLE
FIELD ACTIVITY: Soil Sampling 10 Fraing	SUBCONTRACTOR:
PREVAILING WAGE ☐ YES ☑ NO	MILEAGE Start:_____ End:_____

0700 Mike Alcoto, Jelisa Thomas, Cesar Lanis and Matt Lenny arrived at the Site.
0730 Held health and Safety meeting.
0800 Collected first equipment blank for the day.
0814 Began to sample borings 1127-127 and 1127-125.
0830 Mike Alcoto and Jelisa Thomas completed sampling borings 1127-127 and 1127-129. Took pictures of boring location and logged soil.
0900 Began to sample borings 1127-130 and 1127-132.
0917 Completed sampling borings 1127-130 and 1127-132. Took pictures and logged soil.
1007 Began to sample borings 1127-134 and 1127-136.
1045 Completed sampling borings 1127-134 and 1127-136. Took pictures of boring locations and logged soil collected. Moved to the next boring location.
1116 Began to sample borings 1127-133 and 1127-135.
1144 Completed sampling borings 1127-133 and 1127-135. Took pictures of the boring locations and logged soil collected.
1200 Took a short lunch break.
1329 Began to sample borings 1127-137 and 1127-138.

Employee Name	Field Time	Employee Name	Field Time
Mike Alcoto	9.0		
Jelisa Thomas	8.0		

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GEOCON CONSULTANTS, INC.
CALTRANS CONTRACT NO. 07A2730
TASK ORDER NO. 11
GEOCON PROJECT S9500-06-04
PROJECT FIELD LOG

Date: 1/26/11

PROJECT NAME: ROUTE 10 ADL	
CALTRANS ONSITE REP: SAM YANG	GEOCON PROJECT MANAGER: MIKE CONKLE
FIELD ACTIVITY:	SUBCONTRACTOR:
PREVAILING WAGE ☐ YES ☑ NO	MILEAGE Start:_____ End:_____

1413 Completed sampling borings 1127-137 and 1127-138. Triple picture/ and ~~left the~~ logged the soil.
1520 Collected the second equipment blank sample for the day/site for the day
1530 Melisa Thomas offsite for the day
1645 Milu Alcoto offsite after samples/were picked up at the site.

Employee Name	Field Time	Employee Name	Field Time
Milu Alcoto	9.0		
Melisa Thomas	8.0		

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GEOCON CONSULTANTS, INC.
CALTRANS CONTRACT NO. 07A2730
TASK ORDER NO. 11
GEOCON PROJECT S9500-06-04
PROJECT FIELD LOG

Date: 1/26/11

PROJECT NAME: ROUTE 10 ADL	
CALTRANS ONSITE REP: SAM YANG	GEOCON PROJECT MANAGER: MIKE CONKLE
FIELD ACTIVITY:	SUBCONTRACTOR:
PREVAILING WAGE ☐ YES ☑ NO	MILEAGE Start: 204741 End: 204767

07:30	Arrived at designated meeting area. Began the morning H&S meeting
07:40	Finished H&S meeting, left for the first location (165) at Via Verde
07:55	Arrived at Via Verde, began set up procedures for the day & got the first EB
0819	Began sampling location 165
0835	Finished location 165, moved to & set up on location 166
0900	Finished location 166, moved to & set up on location 164
0912	Finished location 164, moved to & set up on location 162
0930	Finished location 162, moved to & set up on location 160
1005	Finished location 160, moved to & set up on location 174
1045	Finished location 174, moved to & set up on location 170
1100	Finished location 170, moved to & set up on location 169
1120	Finished location 169, moved to & set up on location 167
1130	GPS'd all the locations along Kellogg
1150	Cont. with location 167
1225	Finished location 167, moved to & set up on location 172
1250	Finished location 172, ~~moved to~~ Met w/ Mike Acosta to assist in their sampling
1335	Began sampling at location 140
1400	Finished location 140, moved to & set up on location 139
1430	Finished location 139, began final clean up procedures
1500	Met at designated meeting location, began to review samples
1615	Relinquished samples, left site

Employee Name	Field Time	Employee Name	Field Time
Cesar Larios	9		
Matt Lewin	8		

PREPARED BY:	APPROVED BY:

GEOCON CONSULTANTS, INC.
CALTRANS CONTRACT NO. 07A2730
TASK ORDER NO. 11
GEOCON PROJECT S9500-06-04
PROJECT FIELD LOG

Date: 1/27/11

PROJECT NAME: ROUTE 10 ADL	
CALTRANS ONSITE REP: SAM YANG	GEOCON PROJECT MANAGER: MIKE CONKLE
FIELD ACTIVITY: Soil Sampling 10 ADL	SUBCONTRACTOR:
PREVAILING WAGE ☐ YES ☑ NO	MILEAGE Start:_____ End:_____

0780 All arrived at the site.
0812 Collected 1st equipment blank for the day
0832 Collected Sampled 1127-148-0.5-1.0
0837 Sampled 1127-148-1.5-2.0
0848 Sampled 1127-148-3.5-4.0
0905 Sampled 1127-150-1.5-2.0
0918 Sampled 1127-150-3.5-4.0
1004 Sampled 1127-149-1.5-2.0
1016 Sampled 1127-149-3.5-4.0
1026 Sampled 1127-149-5.5-6.0
1044 Sampled 1127-147-1.5-2.0
1045 Sampled 1127-147-3.5-4.0
1056 Sampled 1127-147-5.5-6.0
1129 Sampled 1127-145-0.5-6.0
1135 Sampled 1127-145-1.5-2.0
1232 Sampled 1127-152-1.5-2.0
1236 Sampled 1127-152-3.5-4.0
1243 Sampled 1127-152-5.5-6.0
1258 Sampled 1127-152-7.5-8.0
1342 Sampled 1127-175-0.5-1.0
1345 Sampled 1127-175-1.5-2.0
1347 Sampled 1127-175-2.5-3.0
1403 Sampled 1127-177-0.5-1.0
1408 Sampled 1127-177-1.5-1.0
1420 Sampled 1127-179-0.5-1.0
1440 Sampled 1127-181-0.5-1.0
1442 Sampled 1127-181-1.5-2.0
1444 Sampled 1127-181-2.5-3.0

Employee Name	Field Time	Employee Name	Field Time
Mike Alcott	9.0		
Teliza Thomas	8.0		

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GEOCON CONSULTANTS, INC.
CALTRANS CONTRACT NO. 07A2730
TASK ORDER NO. 11
GEOCON PROJECT S9500-06-04
PROJECT FIELD LOG

Date: 1/27/2011

PROJECT NAME: ROUTE 10 ADL	
CALTRANS ONSITE REP: SAM YANG	GEOCON PROJECT MANAGER: MIKE CONKLE
FIELD ACTIVITY: Soil Sampling 10 ADL	SUBCONTRACTOR:
PREVAILING WAGE ☐ YES ☑ NO	MILEAGE Start:_____ End:_____

1402 Sampled 1127-8.5-6.8
1413 Sampled 1127-8.5-9.0
1500 Collected sampling equipment & data for the day. Jelisa Thomas offsite.
1600 Mike Alcoto visited at the site for the samples to be picked up.

Employee Name	Field Time	Employee Name	Field Time
Mike Alcoto	9.0		
Jelisa Thomas	8.0		

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GEOCON CONSULTANTS, INC.
CALTRANS CONTRACT NO. 07A2730
TASK ORDER NO. 11
GEOCON PROJECT S9500-06-04
PROJECT FIELD LOG

Date: 1/27/11

PROJECT NAME: ROUTE 10 ADL	
CALTRANS ONSITE REP: SAM YANG	GEOCON PROJECT MANAGER: MIKE CONKLE
FIELD ACTIVITY: Soil Sample	SUBCONTRACTOR:
PREVAILING WAGE ☐ YES ☑ NO	MILEAGE Start: 204819 End: 204879

0730: Arrived on site, began the morning H&S meeting
0745: Finished the H&S meeting, discussed the ~~Exc~~ sampling schedule for the day
0800 Left designated meeting area & moved the Beaumont locations along the SB offramp, Began morning set up.
0815 Began sampling at location 142
0901 Finished location 142, moved to & set up on location 144
0925 Finished location 144, moved to & set up on location 146
1000 Finished location 146, moved to & set up on location 141
1042 Finished location 141, moved to & set up on location 143
1130 Finished location 143, moved to & set up on location 154
1240 Finished location 154, waited for Sam with Caltrans for further instructions.
1300 It was decided by Sam Yang with Caltrans that additional borings / samples will be conducted along the 10 EB shoulder between Via Verde & Kellogg Dr. Moved to new work area
1315 Arrived at new work area and marked out an additional 10 borings, # 175 – 184
1350 Began ~~boring 176~~ sampling location 176
1415 Finished location ~~#~~ 176, moved to & set up on location 178
1430 Finished location 178, moved to & set up on location 180
1450 Finished location 180, began final cleanup procedures
~~1~~515 It was decided by Sam Yang with Caltrans to conduct 6 additional borings along Via Verde Ave/10WB on & off ramps. Moved to location to stake new locations, # 185 – 190
1530 Moved to the designated meeting area and began to review sampling
1615 Relinquished samples & paper work to Mike Acosta, Left site

Employee Name	Field Time	Employee Name	Field Time
Cesar Larios	9		
Matt Lewin	8		

PREPARED BY:	APPROVED BY:

GEOCON CONSULTANTS, INC.
CALTRANS CONTRACT NO. 07A2730
TASK ORDER NO. 11
GEOCON PROJECT S9500-06-04
PROJECT FIELD LOG

Date: 1/28/11

PROJECT NAME: ROUTE 10 ADL	
CALTRANS ONSITE REP: SAM YANG	GEOCON PROJECT MANAGER: MIKE CONKLE
FIELD ACTIVITY: Soil Sampling 10 Fremont	SUBCONTRACTOR:
PREVAILING WAGE ☐ YES ☑ NO	MILEAGE Start: End:

0700 Mike Alcoto, Felisa Thomas, Matt Jenny, and Gregor Langs arrived at the site.
0710 Held health and safety meeting.
0821 Collected first equipment blank sample for the day.
0835 Began to collect samples at boring 1127-182.
0851 Completed sampling boring 1127-182. Took pictures at the boring location and logged the soil collected.
0913 Sampled boring 1127-179 for a 2 ft sample.
0929 Began to sample boring 1127-191
0934 Completed sampling boring 1127-191. Took pictures, and logged soil collected
0948 Began to sample boring 1127-192
~~1001~~ 1001 Completed sampling boring 1127-192 took pictures of the boring location and logged soil collected.
1011 Began to sample boring 1127-193
1028 Completed sampling boring 1127-193. Took pictures of the boring location and logged soil collected.
1038 Began to sample boring 1127-194
1036 Completed sampling boring 1127-194. Took pictures of the boring location. and logged soil collected.
1100 Took a short lunch break.

Employee Name	Field Time	Employee Name	Field Time
Mike Alcoto	8.00		
Felisa Thomas	8.00		

PREPARED BY:	APPROVED BY:

GEOCON CONSULTANTS, INC.
CALTRANS CONTRACT NO. 07A2730
TASK ORDER NO. 11
GEOCON PROJECT S9500-06-04
PROJECT FIELD LOG

Date: 1/28/11

PROJECT NAME: ROUTE 10 ADL	
CALTRANS ONSITE REP: SAM YANG	GEOCON PROJECT MANAGER: MIKE CONKLE
FIELD ACTIVITY:	SUBCONTRACTOR:
PREVAILING WAGE ☐ YES ☑ NO	MILEAGE Start:_____ End:_____

1210 Began to sample borey 1127-185
1218 Completed sampling borey 1127-185. Took pictures at the borey location and logged the soil collected.
1232 Began to sample borey 1127-186.
1239 Completed sampling borey 1127-186. Took pictures of the borey location and logged the soil collected.
1258 Began to sample borey 1127-187.
1310 Completed sampling borey 1127-187. Took pictures of the borey location and logged the soil collected.
1316 Collected the recent equipment blank sample for the day and ~~[illegible]~~ for pull-up for the day.
1430 Jelisa Thomas and Matt Lenn offsite for the day.
1500 Mike Alcoto ~~and Cesar~~ offsite for the day.

Employee Name	Field Time	Employee Name	Field Time
Mike Alcoto	8.00		
Jelisa Thomas	8.00		

PREPARED BY:	APPROVED BY:

GEOCON CONSULTANTS, INC.
CALTRANS CONTRACT NO. 07A2730
TASK ORDER NO. 11
GEOCON PROJECT S9500-06-04
PROJECT FIELD LOG

Date: 1/28/11

PROJECT NAME: ROUTE 10 ADL	
CALTRANS ONSITE REP: SAM YANG	GEOCON PROJECT MANAGER: MIKE CONKLE
FIELD ACTIVITY: Soil Sampling	SUBCONTRACTOR:
PREVAILING WAGE ☐ YES ☑ NO	MILEAGE Start: 204931 End: 204956

07:30 ~~Met~~ Arrived at designated meeting area, conducted the daily H & S meeting
07:55 Left morning meeting area & left to new locations on the 10EB between Via Verde Ave & Kellogg Ave
0820 Began morning set up.
0825 Began sampling location 184
0908 Finished location 184, moved to & set up on location 183
0930 Finished location 183, It was decided by Sam Yang w/ Caltrans that an additional 6 borings would be excavated along the 10EB shoulder, # 191 to 196 between Via Verde & Kellogg Ave. Moved to location 196
0935 Began location 196
1005 Finished location 196, moved to & set up on 195
1045 Finished location 195, GPS'd locations between 10EB Via Verde & Kellogg Ave
1200 Moved to & set up on location 188
1235 Finished location 188, Moved to & set up on 189
1301 Finished location 189, moved to & set up on location 190
1315 Finished location 190, GPS'd locations along 10EWB along Via Verde.
1355 Moved to designated meeting area to relinquish samples
1435 Relinquished samples to Mike Acosta, left to GPS locate locations along Puente Ave, Cameron Ave, Cameron Ave EB offramp, Lake Ellen Ave & Hollenbeck St
1710 Finished GPS'ing due to low battery will continue on Monday 1/31/11
1715 Left site

Employee Name	Field Time	Employee Name	Field Time
César Larios	10		
Matt Lewin	8		

PREPARED BY:	APPROVED BY:

GEOCON CONSULTANTS, INC.
CALTRANS CONTRACT NO. 07A2730
TASK ORDER NO. 11
GEOCON PROJECT S9500-06-04
PROJECT FIELD LOG

Date: 1/31/11

PROJECT NAME: ROUTE 10 ADL	
CALTRANS ONSITE REP: SAM YANG	GEOCON PROJECT MANAGER: MIKE CONKLE
FIELD ACTIVITY:	SUBCONTRACTOR:
PREVAILING WAGE ☐ YES ☑ NO	MILEAGE Start: 205238 End: 205258

0800 Arrived at locations off of Hollenbeck St to continue GPS locating of site left off on Fri 1/28/11
0920 Finished GPS locating all locations left site for office
1030 Arrived at office

Employee Name	Field Time	Employee Name	Field Time
Cesar Larios	2.5		

PREPARED BY:	APPROVED BY:

OCON CONSULTANTS, INC.
CALTRANS CONTRACT NO. 07A2730
TASK ORDER NO. 11
GEOCON PROJECT S9500-06-04
PROJECT FIELD LOG

Date: 2/4/11

PROJECT NAME: ROUTE 10 ADL	
CALTRANS ONSITE REP: SAM YANG	GEOCON PROJECT MANAGER: MIKE CONKLE
FIELD ACTIVITY: GPS Survey - Re-check	SUBCONTRACTOR:
PREVAILING WAGE ☐ YES ☑ NO	MILEAGE Start: 205296 End: 205356

1420 Left for the subject area along the 10 fwy
1445 Arrived at first location along Puente Ave. Will conduct a recheck & re-GPS locations of ~~locations~~ Borings 101, 102, 103, 104, 105, 109, 110, 113, 115-119, 121-124. In addition, stakes were pulled from all boring locations
1730 Finished GPS surveying & pulling stakes. Left site.

Employee Name	Field Time	Employee Name	Field Time
Cesar Larios	3		

PREPARED BY:	APPROVED BY:

GEOCON CONSULTANTS, INC.
CALTRANS CONTRACT NO. 07A2729
TASK ORDER NO. 5
GEOCON PROJECT S9475-06-05
PROJECT FIELD LOG

Date: 2/4/11

PROJECT NAME: LA-101 PM 0.0-11.0 ADL	
CALTRANS ONSITE REP:	GEOCON PROJECT MANAGER: MIKE CONKLE
FIELD ACTIVITY: GPS Survey	SUBCONTRACTOR:
PREVAILING WAGE ☐ YES ☑ NO	MILEAGE Start: 205271 End: 205296

1230 Left office for first location along Lankershim Blvd. to re-locate boring hole #18 (BH 18) as well as BH #15 due to anomolous reading in the GPS data.

1315 Re-GPS' located BH 18 moved to BH #15 along Cahuenga Blvd.

1355 Re GPS located BH 15. Reviewed final data.

1420 Left site

Employee Name	Field Time	Employee Name	Field Time
Cesar Larios	2		

PREPARED BY:	APPROVED BY:

8.0 PLAN APPROVAL

The undersigned has reviewed and approved this Health and Safety Plan prepared for the aerially deposited lead site investigation project along Route 10 in Los Angeles County, as described herein.

Douglas S. Krause, CIH - Krause & Associates
Geocon Consulting Certified Industrial Hygienist
ABIH Certification No. 2123, Exp. June 1, 2015

THE AMERICAN BOARD OF INDUSTRIAL HYGIENE INCORPORATED
CERTIFICATION NUMBER 2123 CP
EXPIRES 6-1-2015
PENNSYLVANIA - 1960
DOUGLAS S. KRAUSE, CIH

January 17, 2011
Date

Mike Conkle, PG
Geocon Project Manager

1/18/11
Date

The following personnel, including subcontractors involved with the project activities have reviewed, or received a copy of this Plan and Attachment A, and agree to follow the health and safety procedures described herein.

Print Name	Title	Signature	Date
Mike Alcoth	Staff Geologist		1/24/11
Sam Yang	CALTRANS		1/24/11
Cesar Larios	Project Geologist		1/24/11
Felisa Thomas	Project Eng.		1/24/11
Matthew Lewin	Soil Insp.		1/24/11

8.0 PLAN APPROVAL

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6-1-2015
PENNSYLVANIA - 1960
DOUGLAS S. KRAUSE, CIH

January 17, 2011
Date

Mike Conkle, PG
Geocon Project Manager

January 18, 2011
Date

The following personnel, including subcontractors involved with the project activities have reviewed, or received a copy of this Plan and Attachment A, and agree to follow the health and safety procedures described herein.

Print Name	Title	Signature	Date
Matthew Lewin	Soil insp.		1.25.11
César Larios	Project Geologist		1/25/11
Jelisa Thomas	Project Eng		1/25/11
Mike Akoto	Staff Geologist		1/25/11
Sam Yang	~~Sup~~ CT.		1/25/11

8.0 PLAN APPROVAL

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PENNSYLVANIA - 1960
DOUGLAS S. KRAUSE, CIH

January 17, 2011
Date

Mike Conkle, PG
Geocon Project Manager

January 18, 2011
Date

The following personnel, including subcontractors involved with the project activities have reviewed, or received a copy of this Plan and Attachment A, and agree to follow the health and safety procedures described herein.

Print Name	Title	Signature	Date
Cesar Larios	Project Geologist		1/26/11
Matthew Lewis	Soil insp.		1.26.11
Mike Akers	Staff Geologist		1/26/11
Joshua Thomas	Pg Eng		1/26/11
SAM YANG	CT		1/26/11

8.0 PLAN APPROVAL

The undersigned has reviewed and approved this Health and Safety Plan prepared for the aerially deposited lead site investigation project along Route 10 in Los Angeles County, as described herein.

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Geocon Consulting Certified Industrial Hygienist
ABIH Certification No. 2123, Exp. June 1, 2015

January 17, 2011
Date

Mike Conkle, PG
Geocon Project Manager

January 18, 2011
Date

The following personnel, including subcontractors involved with the project activities have reviewed, or received a copy of this Plan and Attachment A, and agree to follow the health and safety procedures described herein.

Print Name	Title	Signature	Date
Mike High	Site Safety		1/27/11
[illegible]	Site Insp.		1-27-11
Cesar Carlos	Proj Geologist		1-27-11
Jelisa Thomas	Geocon		1-27-11
Sam Yang	CT.		1-27-11

8.0 PLAN APPROVAL

The undersigned has reviewed and approved this Health and Safety Plan prepared for the aerially deposited lead site investigation project along Route 10 in Los Angeles County, as described herein.

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THE AMERICAN BOARD OF INDUSTRIAL HYGIENE INCORPORATED
CERTIFICATION NUMBER
2123 CP
EXPIRES
6-1-2015
PENNSYLVANIA • 1960
DOUGLAS S. KRAUSE, CIH

January 17, 2011
Date

Mike Conkle, PG
Geocon Project Manager

January 18, 2011
Date

The following personnel, including subcontractors involved with the project activities have reviewed, or received a copy of this Plan and Attachment A, and agree to follow the health and safety procedures described herein.

Print Name	Title	Signature	Date
César Larios	Project Geologist		1/28/11
Mike Alcala	Staff Geologist		1/28/11
Matthew Lewin	Soils insp.		1.28.11
SAM YANG	~~Staff~~ OT		1.28.11
Melisa Thomas			1/28/11

DAILY FIELD RECORD

AMEC Geomatrix

Project and Task Number: 015324011 A1	Date: 3/15/11
Project Name: Caltrans - TOIIA1	Field Activity: Soil Sampling ADL
Location: Area 1 & Area 2	Weather:

PERSONNEL: Name	Company	Time In	Time Out
V. Robino	AMEC Geomatrix (AMEC GMX)	0610	1600
Eric, Gilbert D.	Interphase	0610	1545
Sam Yang	Caltrans.	~0630	1545

PERSONAL SAFETY CHECKLIST

x	Steel-toed Boots	x	Hard Hat	-	Tyvek Coveralls
x	Rubber Gloves	x	Safety Goggles	-	1/2-Face Respirator

DRUM I.D.	DESCRIPTION OF CONTENTS AND QUANTITY	LOCATION

TIME	DESCRIPTION OF WORK PERFORMED
0610	Robino at meeting location with Interphase - eastbound exit at Hart.
0630	Sam Yang arrives. HASP meeting & review scope for the day.
0700	Mobilize to drilling area (Area 2) and stake locations with Sam. Drillers unload track rig.
0750	Setup at first location 1127-201. Use "200" as "blank" placeholder.
0755	Start drilling 1127-201.
0830	End " 1127-201.
0850	~~Start~~ Start drilling at 1127-202.
0910	End drilling at 1127-202 Refusal at 7' bgs.
0915	Start drilling at 1127-203. Refusal at 2' bgs. Sam instructs AMEC/Interphase to step out to the west 2' and attempt again.
1000	Complete drilling/sampling on pattern bench. Mob. rig to west bench.
1010	Drillers indicate track rig is having difficulties moving to west bench.
1015/1016	Collect 1st set of blanks (E. blank and F. blank) - corresponds to borings 1127-201 through 1127-204 and on COC #16862 & part of 16863.

DAILY FIELD RECORD (continued)

AMEC Geomatrix

Project and Task Number: 0153240114 | Date: 3/15/11

TIME	DESCRIPTION OF WORK PERFORMED
1030	Drillers mob track rig to westernmost location (west bench).
1040	Began drilling at 1127-205.
1050	First attempt at 1127-205 had refusal at 4' bgs. Sam requests moving out (stepout) ~2' and try again.
	Second attempt - refusal at 1.5' bgs.
1100.	Mob. to 1127-206
1108	First two attempts at 1127-206 unsuccessful: (1st attempt - T.D. = 2.5'.
	2nd attempt (stepout to the east) Refusal at T.D = 2'. Sam requests one
	more attempt.
1129	3rd attempt at 1127-206 Refusal @ 4' bgs.
1126	Mob. to 1127-207. ~~Refusal at 8' bgs.~~ TD = 10.5'
1204/1205	Collect 2nd blank set (through boring 1127-207.)
1207	Begin drilling / Sampling at 1127-208.
1235	Complete " " at 1127-208. Mob. rig off of west bench.
	Destroy all 8 borings with granular bentonite + decon water.
	Cleanup work area. GPS (survey) all 8 locations. Photodoc.
	completed borings.
1330	Mob. To Area 1. Unload track rig to remaining 3 boring locations.
1407	Complete drilling at 1127-210. 1127-209 also completed.
1435/1436	Collect 3rd blank set 1127-200-FB3 & 1127-200-FB3. Applies Through
	boring 1127-210.
1440	Begin drilling at 1127-211. AMEC P.Manager indicates Caltrans
	has requested one additional boring (12 total).
1510	Complete drilling / Sampling. Mob. track rig back to truck / trailer.
1520	Complete backfilling / destroying boreholes
1545	Complete recording GPS data points. Drillers offsite. Sam offsite. 2nd blank set collected
1600	Robins offsite.

VR 3/15/11

8.0 PLAN APPROVAL

The undersigned has reviewed and approved this Health and Safety Plan prepared for the aerially deposited lead site investigation project along Route 10 in Los Angeles County, as described herein.

Douglas S. Krause, CIH - Krause & Associates
Geocon Consulting Certified Industrial Hygienist
ABIH Certification No. 2123, Exp. June 1, 2015

January 17, 2011
Date

Mike Conkle, PG
Geocon Project Manager

January 18, 2011
Date

The following personnel, including subcontractors involved with the project activities have reviewed, or received a copy of this Plan and Attachment A, and agree to follow the health and safety procedures described herein.

Print Name	Title	Signature	Date
V. Robino	Geologist		3/15/11
Erik Alvarez	Driller		3/15/11
Gilbert Dickason	Driller		3/15/11
Sam Yanez	Caltrans		3/15/11

APPENDIX C

April 20, 2011

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 115950

Mike Conkle
Geocon Consultants, Inc.
3303 N. San Fernando Blvd., Suite 100
Burbank, CA 91504

TEL: (818) 841-8388
FAX: (818) 841-1704

RE: State Route 10 ADL, S9500-06-04

Attention: Mike Conkle

Enclosed are the results for sample(s) received on January 24, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an addendum report. Please incorporate with documentation previously submitted.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Geocon Consultants, Inc.
Project: State Route 10 ADL, S9500-06-04
Lab Order: 115950

CASE NARRATIVE

Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" Flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

Date: 4/20/2011

ANALYTICAL RESULTS

LEAD BY ICP
EPA 6010B

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	115950
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	1/24/2011 6:12:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	SRB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
115950-001A	1127-107-1.5-2.0	9.7	mg/Kg	70017	0.11	5.0		1	1/24/2011	1/27/2011
115950-002A	1127-107-3.5-4.0	8.1	mg/Kg	70017	0.11	5.0		1	1/24/2011	1/27/2011
115950-003A	1127-107-5.5-6.0	12	mg/Kg	70017	0.11	5.0		1	1/24/2011	1/27/2011
115950-004A	1127-107-8.5-9.0	4.8	mg/Kg	70017	0.11	5.0	J	1	1/24/2011	1/27/2011
115950-005A	1127-106-1.5-2.0	20	mg/Kg	70017	0.11	5.0		1	1/24/2011	1/27/2011
115950-006A	1127-106-3.5-4.0	11	mg/Kg	70017	0.11	5.0		1	1/24/2011	1/27/2011
115950-007A	1127-105-1.5-2.0	120	mg/Kg	70017	0.11	5.0		1	1/24/2011	1/27/2011
115950-008A	1127-105-3.5-4.0	11	mg/Kg	70017	0.11	5.0		1	1/24/2011	1/27/2011
115950-009A	1127-101-1.5-2.0	40	mg/Kg	70017	0.11	5.0		1	1/24/2011	1/27/2011
115950-010A	1127-101-3.5-4.0	20	mg/Kg	70017	0.11	5.0		1	1/24/2011	1/27/2011
115950-011A	1127-101-5.5-6.0	37	mg/Kg	70017	0.11	5.0		1	1/24/2011	1/27/2011
115950-012A	1127-104-1.5-2.0	26	mg/Kg	70017	0.11	5.0		1	1/24/2011	1/27/2011
115950-013A	1127-104-3.5-4.0	31	mg/Kg	70017	0.11	5.0		1	1/24/2011	1/27/2011
115950-014A	1127-102-1.5-2.0	47	mg/Kg	70017	0.11	5.0		1	1/24/2011	1/27/2011
115950-015A	1127-102-3.5-4.0	38	mg/Kg	70017	0.11	5.0		1	1/24/2011	1/27/2011
115950-016A	1127-102-5.5-6.0	28	mg/Kg	70017	0.11	5.0		1	1/24/2011	1/27/2011
115950-017A	1127-103-1.5-2.0	28	mg/Kg	70017	0.11	5.0		1	1/24/2011	1/27/2011
115950-018A	1127-109-2.0	4.6	mg/Kg	70017	0.11	5.0	J	1	1/24/2011	1/27/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

Date: 4/20/2011

ANALYTICAL RESULTS

LEAD BY ICP
EPA 6010B

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	115950
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	1/24/2011 6:12:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	SRB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
115950-019A	1127-109-4.0	2.5	mg/Kg	70017	0.11	5.0	J	1	1/24/2011	1/27/2011
115950-020A	1127-109-6.0	2.4	mg/Kg	70017	0.11	5.0	J	1	1/24/2011	1/27/2011
115950-021A	1127-110-2.0	10	mg/Kg	70018	0.11	5.0		1	1/24/2011	1/27/2011
115950-022A	1127-112-2.0	8.6	mg/Kg	70018	0.11	5.0		1	1/24/2011	1/27/2011
115950-023A	1127-111-2.0	4.2	mg/Kg	70018	0.11	5.0	J	1	1/24/2011	1/27/2011
115950-024A	1127-113-1.0	71	mg/Kg	70018	0.11	5.0		1	1/24/2011	1/27/2011
115950-025A	1127-114-1.0	8.7	mg/Kg	70018	0.11	5.0		1	1/24/2011	1/27/2011
115950-026A	1127-114-3.0	7.8	mg/Kg	70018	0.11	5.0		1	1/24/2011	1/27/2011
115950-027A	1127-116-1.0	34	mg/Kg	70018	0.11	5.0		1	1/24/2011	1/27/2011
115950-028A	1127-116-3.0	36	mg/Kg	70018	0.11	5.0		1	1/24/2011	1/27/2011
115950-029A	1127-116-5.0	7.0	mg/Kg	70018	0.11	5.0		1	1/24/2011	1/27/2011
115950-030A	1127-115-1.0	29	mg/Kg	70018	0.11	5.0		1	1/24/2011	1/27/2011
115950-031A	1127-115-3.0	5.3	mg/Kg	70018	0.11	5.0		1	1/24/2011	1/27/2011
115950-032A	1127-125-2.0	51	mg/Kg	70018	0.11	5.0		1	1/24/2011	1/27/2011
115950-033A	1127-126-2.0	23	mg/Kg	70018	0.11	5.0		1	1/24/2011	1/27/2011
115950-034A	1127-128-2.0	6.7	mg/Kg	70018	0.11	5.0		1	1/24/2011	1/27/2011
115950-035A	1127-127-2.0	22	mg/Kg	70018	0.11	5.0		1	1/24/2011	1/27/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

Date: 4/20/2011

ANALYTICAL RESULTS

LEAD BY ICP
EPA 6010B

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	115950
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	1/24/2011 6:12:00 PM
Project No:		**Matrix:**	Water
Analyte:	Lead	**Analyst:**	JSD

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
115950-036A	1127-EB-100-2	ND	mg/L	70066	0.0046	0.25		1	1/24/2011	1/28/2011
115950-037A	1127-EB-100-1	ND	mg/L	70066	0.0046	0.25		1	1/24/2011	1/28/2011

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

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Advanced Technology Laboratories

Date: 4/20/2011

ANALYTICAL RESULTS

LEAD BY ATOMIC ABSORPTION (STLC)
WET/ EPA 7420

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	115950
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	1/24/2011 6:12:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
115950-007A	1127-105-1.5-2.0	4.2	mg/L	70118	0.21	0.25		1	1/24/2011	2/3/2011
115950-024A	1127-113-1.0	1.5	mg/L	70118	0.21	0.25		1	1/24/2011	2/3/2011
115950-032A	1127-125-2.0	1.8	mg/L	70118	0.21	0.25		1	1/24/2011	2/3/2011

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

Date: 4/20/2011

ANALYTICAL RESULTS

LEAD BY ATOMIC ABSORPTION (TCLP)
EPA 1311/ 7420

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	115950
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	1/24/2011 6:12:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	VV

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
115950-007A	1127-105-1.5-2.0	0.30	mg/L	70707	0.21	0.25		1	1/24/2011	2/15/2011

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

Date: 4/20/2011

ANALYTICAL RESULTS

pH
EPA 9045C

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	115950
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	1/24/2011 6:12:00 PM
Project No:		**Matrix:**	Soil
Analyte:	pH	**Analyst:**	CBB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
115950-007A	1127-105-1.5-2.0	8.4	pH Units	R129967	0.10	0.10		1	1/24/2011	2/15/2011

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *20-Apr-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	1127-105-1.5-2.0
Lab Order:	115950	**Collection Date:**	1/24/2011 1:54:00 PM
Project:	State Route 10 ADL, S9500-06-04	**Matrix:**	SOIL
Lab ID:	115950-007A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B		**EPA 6010B**				
RunID: **ICP8_110215B**	QC Batch: **70696**				PrepDate:	**2/15/2011**	Analyst: **JSD**
Antimony	0.33	0.16	2.0	J	mg/Kg	1	2/15/2011 02:08 PM
Arsenic	ND	0.20	1.0		mg/Kg	1	2/15/2011 02:08 PM
Barium	92	0.056	1.0		mg/Kg	1	2/15/2011 02:08 PM
Beryllium	ND	0.042	1.0		mg/Kg	1	2/15/2011 02:08 PM
Cadmium	0.48	0.043	1.0	J	mg/Kg	1	2/15/2011 02:08 PM
Chromium	13	0.13	1.0		mg/Kg	1	2/15/2011 02:08 PM
Cobalt	8.1	0.11	1.0		mg/Kg	1	2/15/2011 02:08 PM
Copper	17	0.18	2.0		mg/Kg	1	2/15/2011 02:08 PM
Molybdenum	ND	0.097	1.0		mg/Kg	1	2/15/2011 02:08 PM
Nickel	12	0.11	1.0		mg/Kg	1	2/15/2011 02:08 PM
Selenium	ND	0.28	1.0		mg/Kg	1	2/15/2011 02:08 PM
Silver	ND	0.042	1.0		mg/Kg	1	2/15/2011 02:08 PM
Thallium	ND	0.098	1.0		mg/Kg	1	2/15/2011 02:08 PM
Vanadium	30	0.088	1.0		mg/Kg	1	2/15/2011 02:08 PM
Zinc	61	0.13	1.0		mg/Kg	1	2/15/2011 02:08 PM
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 7471A				
RunID: **AA1_110215A**	QC Batch: **70695**				PrepDate:	**2/15/2011**	Analyst: **VV**
Mercury	0.042	0.0076	0.10	J	mg/Kg	1	2/15/2011 01:19 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

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CLIENT: Geocon Consultants, Inc.
Work Order: 115950
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **MB-70696** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/15/2011** RunNo: **129987**
Client ID: **PBS** Batch ID: **70696** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/15/2011** SeqNo: **2111640**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.171	2.0									J
Arsenic	ND	1.0									
Barium	ND	1.0									
Beryllium	ND	1.0									
Cadmium	ND	1.0									
Chromium	ND	1.0									
Cobalt	ND	1.0									
Copper	ND	2.0									
Molybdenum	ND	1.0									
Nickel	ND	1.0									
Selenium	ND	1.0									
Silver	ND	1.0									
Thallium	ND	1.0									
Vanadium	ND	1.0									
Zinc	0.220	1.0									J

Sample ID: **LCS-70696** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/15/2011** RunNo: **129987**
Client ID: **LCSS** Batch ID: **70696** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/15/2011** SeqNo: **2111641**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	49.670	2.0	50.00	0.1712	99.0	80	120				
Arsenic	49.827	1.0	50.00	0	99.7	80	120				
Barium	51.901	1.0	50.00	0	104	80	120				
Beryllium	51.067	1.0	50.00	0	102	80	120				
Cadmium	49.784	1.0	50.00	0	99.6	80	120				
Chromium	47.473	1.0	50.00	0	94.9	80	120				
Cobalt	51.031	1.0	50.00	0	102	80	120				
Copper	51.387	2.0	50.00	0	103	80	120				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 115950
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **LCS-70696** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/15/2011** RunNo: **129987**
Client ID: **LCSS** Batch ID: **70696** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/15/2011** SeqNo: **2111641**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	52.935	1.0	50.00	0	106	80	120				
Nickel	50.522	1.0	50.00	0	101	80	120				
Selenium	48.054	1.0	50.00	0	96.1	80	120				
Silver	48.722	1.0	50.00	0	97.4	80	120				
Thallium	49.730	1.0	50.00	0	99.5	80	120				
Vanadium	52.583	1.0	50.00	0	105	80	120				
Zinc	50.103	1.0	50.00	0.2199	99.8	80	120				

Sample ID: **115950-007A-DUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/15/2011** RunNo: **129987**
Client ID: **1127-105-1.5-2.0** Batch ID: **70696** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/15/2011** SeqNo: **2111643**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.503	2.0						0.3335	0	20	J
Arsenic	ND	1.0						0	0	20	
Barium	87.920	1.0						92.48	5.06	20	
Beryllium	ND	1.0						0	0	20	
Cadmium	0.484	1.0						0.4796	0	20	J
Chromium	11.976	1.0						13.01	8.31	20	
Cobalt	7.806	1.0						8.123	3.97	20	
Copper	16.945	2.0						17.21	1.57	20	
Lead	119.364	1.0						115.6	3.22	20	
Molybdenum	ND	1.0						0	0	20	
Nickel	10.425	1.0						11.69	11.5	20	
Selenium	ND	1.0						0	0	20	
Silver	ND	1.0						0	0	20	
Thallium	ND	1.0						0	0	20	
Vanadium	29.441	1.0						30.04	2.02	20	
Zinc	63.084	1.0						61.20	3.03	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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CLIENT: Geocon Consultants, Inc.
Work Order: 115950
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **115950-007A-MS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/15/2011** RunNo: **129987**
Client ID: **1127-105-1.5-2.0** Batch ID: **70696** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/15/2011** SeqNo: **2111644**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	99.412	2.0	125.0	0.3335	79.3	32	105				
Arsenic	105.642	1.0	125.0	0	84.5	49	106				
Barium	205.619	1.0	125.0	92.48	90.5	31	133				
Beryllium	108.341	1.0	125.0	0	86.7	56	106				
Cadmium	104.937	1.0	125.0	0.4796	83.6	51	103				
Chromium	115.561	1.0	125.0	13.01	82.0	45	114				
Cobalt	115.696	1.0	125.0	8.123	86.1	52	106				
Copper	136.054	2.0	125.0	17.21	95.1	54	125				
Lead	223.864	1.0	125.0	115.6	86.6	34	126				
Molybdenum	108.027	1.0	125.0	0	86.4	54	106				
Nickel	117.827	1.0	125.0	11.69	84.9	45	111				
Selenium	105.711	1.0	125.0	0	84.6	47	104				
Silver	112.685	1.0	125.0	0	90.1	56	112				
Thallium	87.971	1.0	125.0	0	70.4	46	101				
Vanadium	142.992	1.0	125.0	30.04	90.4	54	114				
Zinc	170.373	1.0	125.0	61.20	87.3	28	125				

Sample ID: **115950-007A-MSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/15/2011** RunNo: **129987**
Client ID: **1127-105-1.5-2.0** Batch ID: **70696** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/15/2011** SeqNo: **2111645**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	95.522	2.0	125.0	0.3335	76.2	32	105	99.41	3.99	20	
Arsenic	101.141	1.0	125.0	0	80.9	49	106	105.6	4.35	20	
Barium	200.985	1.0	125.0	92.48	86.8	31	133	205.6	2.28	20	
Beryllium	103.888	1.0	125.0	0	83.1	56	106	108.3	4.20	20	
Cadmium	100.464	1.0	125.0	0.4796	80.0	51	103	104.9	4.36	20	
Chromium	111.613	1.0	125.0	13.01	78.9	45	114	115.6	3.48	20	
Cobalt	111.870	1.0	125.0	8.123	83.0	52	106	115.7	3.36	20	
Copper	131.149	2.0	125.0	17.21	91.1	54	125	136.1	3.67	20	
Lead	218.194	1.0	125.0	115.6	82.1	34	126	223.9	2.57	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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CLIENT: Geocon Consultants, Inc.
Work Order: 115950
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **115950-007A-MSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/15/2011** RunNo: **129987**
Client ID: **1127-105-1.5-2.0** Batch ID: **70696** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/15/2011** SeqNo: **2111645**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	103.377	1.0	125.0	0	82.7	54	106	108.0	4.40	20	
Nickel	113.534	1.0	125.0	11.69	81.5	45	111	117.8	3.71	20	
Selenium	101.064	1.0	125.0	0	80.9	47	104	105.7	4.49	20	
Silver	108.446	1.0	125.0	0	86.8	56	112	112.7	3.83	20	
Thallium	83.224	1.0	125.0	0	66.6	46	101	87.97	5.55	20	
Vanadium	140.087	1.0	125.0	30.04	88.0	54	114	143.0	2.05	20	
Zinc	168.089	1.0	125.0	61.20	85.5	28	125	170.4	1.35	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 115950
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **MB-70017A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/26/2011** RunNo: **129248**
Client ID: **PBS** Batch ID: **70017** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/27/2011** SeqNo: **2095668**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.263	5.0									J

Sample ID: **LCS-70017** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/26/2011** RunNo: **129248**
Client ID: **LCSS** Batch ID: **70017** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/27/2011** SeqNo: **2095669**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	228.901	5.0	250.0	0.2625	91.5	80	120				

Sample ID: **115950-010A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/26/2011** RunNo: **129248**
Client ID: **1127-101-3.5-4.0** Batch ID: **70017** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/27/2011** SeqNo: **2095680**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	20.273	5.0						20.38	0.543	20	

Sample ID: **115950-010A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/26/2011** RunNo: **129248**
Client ID: **1127-101-3.5-4.0** Batch ID: **70017** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/27/2011** SeqNo: **2095681**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	242.449	5.0	250.0	20.38	88.8	34	126				

Sample ID: **MB-70017B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/26/2011** RunNo: **129248**
Client ID: **PBS** Batch ID: **70017** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/27/2011** SeqNo: **2095682**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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CLIENT: Geocon Consultants, Inc.
Work Order: 115950
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **115950-020A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/26/2011** RunNo: **129248**
Client ID: **1127-109-6.0** Batch ID: **70017** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/27/2011** SeqNo: **2095693**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.122	5.0						2.365	0	20	J

Sample ID: **115950-020A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/26/2011** RunNo: **129248**
Client ID: **1127-109-6.0** Batch ID: **70017** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/27/2011** SeqNo: **2095694**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	230.173	5.0	250.0	2.365	91.1	34	126				

Sample ID: **115950-020A-MSD** SampType: **MSD** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/26/2011** RunNo: **129248**
Client ID: **1127-109-6.0** Batch ID: **70017** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/27/2011** SeqNo: **2095695**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	216.718	5.0	250.0	2.365	85.7	34	126	230.2	6.02	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 115950
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **MB-70018A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/26/2011** RunNo: **129249**
Client ID: **PBS** Batch ID: **70018** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/27/2011** SeqNo: **2095696**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-70018** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/26/2011** RunNo: **129249**
Client ID: **LCSS** Batch ID: **70018** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/27/2011** SeqNo: **2095697**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	230.311	5.0	250.0	0	92.1	80	120				

Sample ID: **115950-030A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/26/2011** RunNo: **129249**
Client ID: **1127-115-1.0** Batch ID: **70018** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/27/2011** SeqNo: **2095708**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	24.462	5.0						28.96	16.8	20	

Sample ID: **115950-030A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/26/2011** RunNo: **129249**
Client ID: **1127-115-1.0** Batch ID: **70018** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/27/2011** SeqNo: **2095709**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	230.353	5.0	250.0	28.96	80.6	34	126				

Sample ID: **MB-70018B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/26/2011** RunNo: **129249**
Client ID: **PBS** Batch ID: **70018** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/27/2011** SeqNo: **2095710**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 115950
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **115950-035A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/26/2011** RunNo: **129249**
Client ID: **1127-127-2.0** Batch ID: **70018** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/27/2011** SeqNo: **2095716**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	19.022	5.0						21.99	14.5	20	

Sample ID: **115950-035A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/26/2011** RunNo: **129249**
Client ID: **1127-127-2.0** Batch ID: **70018** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/27/2011** SeqNo: **2095717**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	238.417	5.0	250.0	21.99	86.6	34	126				

Sample ID: **115950-035A-MSD** SampType: **MSD** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/26/2011** RunNo: **129249**
Client ID: **1127-127-2.0** Batch ID: **70018** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/27/2011** SeqNo: **2095718**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	232.585	5.0	250.0	21.99	84.2	34	126	238.4	2.48	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WPB

Sample ID: **MB-70066** SampType: **MBLK** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **1/27/2011** RunNo: **129299**
Client ID: **PBW** Batch ID: **70066** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **1/28/2011** SeqNo: **2096895**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-70066** SampType: **LCS** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **1/27/2011** RunNo: **129299**
Client ID: **LCSW** Batch ID: **70066** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **1/28/2011** SeqNo: **2096896**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.944	0.25	1.000	0	94.4	85	115				

Sample ID: **115959-046B-DUP** SampType: **DUP** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **1/27/2011** RunNo: **129299**
Client ID: **ZZZZZZ** Batch ID: **70066** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **1/28/2011** SeqNo: **2096900**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.013	0.25						0.01195	0	20	J

Sample ID: **115959-046B-MS** SampType: **MS** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **1/27/2011** RunNo: **129299**
Client ID: **ZZZZZZ** Batch ID: **70066** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **1/28/2011** SeqNo: **2096901**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.209	0.25	2.500	0.01195	87.9	80	118				

Sample ID: **115959-046B-MSD** SampType: **MSD** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **1/27/2011** RunNo: **129299**
Client ID: **ZZZZZZ** Batch ID: **70066** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **1/28/2011** SeqNo: **2096902**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.178	0.25	2.500	0.01195	86.7	80	118	2.209	1.40	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Geocon Consultants, Inc.
Work Order: 115950
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID: **MB-70118A** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **1/29/2011** RunNo: **129523**
Client ID: **PBS** Batch ID: **70118** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/3/2011** SeqNo: **2101758**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-70118** SampType: **LCS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **1/29/2011** RunNo: **129523**
Client ID: **LCSS** Batch ID: **70118** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/3/2011** SeqNo: **2101759**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.085	0.25	5.000	0	102	80	120				

Sample ID: **115998-001A-DUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **1/29/2011** RunNo: **129523**
Client ID: **ZZZZZZ** Batch ID: **70118** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/3/2011** SeqNo: **2101771**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.470	0.25						0.4861	3.44	20	

Sample ID: **115998-001A-MS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **1/29/2011** RunNo: **129523**
Client ID: **ZZZZZZ** Batch ID: **70118** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/3/2011** SeqNo: **2101772**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.265	0.25	5.000	0.4861	95.6	80	120				

Sample ID: **115998-001A-MSD** SampType: **MSD** TestCode: **7420_ST** Units: **mg/L** Prep Date: **1/29/2011** RunNo: **129523**
Client ID: **ZZZZZZ** Batch ID: **70118** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/3/2011** SeqNo: **2101773**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.379	0.25	5.000	0.4861	97.9	80	120	5.265	2.15	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 115950
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: **MB-70707A** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **129996**
Client ID: **PBS** Batch ID: **70707** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/15/2011** SeqNo: **2112017**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **MB-70685A TCLP** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **129996**
Client ID: **PBS** Batch ID: **70707** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/15/2011** SeqNo: **2112018**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-70707** SampType: **LCS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **129996**
Client ID: **LCSS** Batch ID: **70707** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/15/2011** SeqNo: **2112019**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.963	0.25	1.000	0	96.3	80	120				

Sample ID: **116042-038A-DUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **129996**
Client ID: **ZZZZZZ** Batch ID: **70707** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/15/2011** SeqNo: **2112025**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.682	0.25						0.6682	2.04	20	

Sample ID: **116042-038A-MS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **129996**
Client ID: **ZZZZZZ** Batch ID: **70707** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/15/2011** SeqNo: **2112026**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.240	0.25	2.500	0.6682	103	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories
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CLIENT: Geocon Consultants, Inc.
Work Order: 115950
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: **MB-70707B** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **129996**
Client ID: **PBS** Batch ID: **70707** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/15/2011** SeqNo: **2112027**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **MB-70685B TCLP** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **129996**
Client ID: **PBS** Batch ID: **70707** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/15/2011** SeqNo: **2112028**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **116069-032A-DUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **129996**
Client ID: **ZZZZZZ** Batch ID: **70707** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/15/2011** SeqNo: **2112039**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.656	0.25						0.6450	1.68	20	

Sample ID: **116069-032A-MS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **129996**
Client ID: **ZZZZZZ** Batch ID: **70707** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/15/2011** SeqNo: **2112040**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.017	0.25	2.500	0.6450	94.9	70	130				

Sample ID: **116069-032A-MSD** SampType: **MSD** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **129996**
Client ID: **ZZZZZZ** Batch ID: **70707** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/15/2011** SeqNo: **2112041**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.039	0.25	2.500	0.6450	95.8	70	130	3.017	0.748	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Geocon Consultants, Inc.
Work Order: 115950
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

Sample ID: **MB-70695** SampType: **MBLK** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **2/15/2011** RunNo: **129990**
Client ID: **PBS** Batch ID: **70695** TestNo: **EPA 7471A** Analysis Date: **2/15/2011** SeqNo: **2111727**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: **LCS-70695** SampType: **LCS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **2/15/2011** RunNo: **129990**
Client ID: **LCSS** Batch ID: **70695** TestNo: **EPA 7471A** Analysis Date: **2/15/2011** SeqNo: **2111728**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.825	0.10	0.8300	0	99.4	80	120				

Sample ID: **115950-007A-MS** SampType: **MS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **2/15/2011** RunNo: **129990**
Client ID: **1127-105-1.5-2.0** Batch ID: **70695** TestNo: **EPA 7471A** Analysis Date: **2/15/2011** SeqNo: **2111729**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.983	0.10	0.8300	0.04249	113	70	130				

Sample ID: **115950-007A-MSD** SampType: **MSD** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **2/15/2011** RunNo: **129990**
Client ID: **1127-105-1.5-2.0** Batch ID: **70695** TestNo: **EPA 7471A** Analysis Date: **2/15/2011** SeqNo: **2111730**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.982	0.10	0.8300	0.04249	113	70	130	0.9829	0.0679	20	

Sample ID: **115950-007A-DUP** SampType: **DUP** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **2/15/2011** RunNo: **129990**
Client ID: **1127-105-1.5-2.0** Batch ID: **70695** TestNo: **EPA 7471A** Analysis Date: **2/15/2011** SeqNo: **2111732**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.044	0.10						0.04249	0	20	J

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Geocon Consultants, Inc.
Work Order: 115950
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 9045_S

Sample ID: **116006-038ADUP** SampType: **DUP** TestCode: **9045_S** Units: **pH Units** Prep Date: RunNo: **129967**
Client ID: **ZZZZZZ** Batch ID: **R129967** TestNo: **EPA 9045C** Analysis Date: **2/15/2011** SeqNo: **2111248**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.820	0.10						7.860	0.510	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

April 20, 2011

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 115974

Mike Conkle
Geocon Consultants, Inc.
3303 N. San Fernando Blvd., Suite 100
Burbank, CA 91504

TEL: (818) 841-8388
FAX: (818) 841-1704

RE: State Route 10 ADL, S9500-06-04

Attention: Mike Conkle

Enclosed are the results for sample(s) received on January 25, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an addendum report. Please incorporate with documentation previously submitted.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

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Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Geocon Consultants, Inc.
Project: State Route 10 ADL, S9500-06-04
Lab Order: 115974

CASE NARRATIVE

Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" Flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

Date: 4/20/2011

ANALYTICAL RESULTS

LEAD BY ICP
EPA 6010B

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	115974
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	1/25/2011 6:03:00 PM
Project No:		**Matrix:**	Water
Analyte:	Lead	**Analyst:**	JSD

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
115974-001A	EB-100-3	ND	mg/L	70066	0.0046	0.25		1	1/25/2011	1/28/2011
115974-002A	EB-100-4	ND	mg/L	70066	0.0046	0.25		1	1/25/2011	1/28/2011
115974-003A	EB-100-5	ND	mg/L	70066	0.0046	0.25		1	1/25/2011	1/28/2011
115974-004A	EB-100-6	ND	mg/L	70066	0.0046	0.25		1	1/25/2011	1/28/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Geocon Consultants, Inc.
Work Order: 115974
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WPB

Sample ID: **MB-70066** SampType: **MBLK** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **1/27/2011** RunNo: **129299**
Client ID: **PBW** Batch ID: **70066** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **1/28/2011** SeqNo: **2096895**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-70066** SampType: **LCS** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **1/27/2011** RunNo: **129299**
Client ID: **LCSW** Batch ID: **70066** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **1/28/2011** SeqNo: **2096896**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.944	0.25	1.000	0	94.4	85	115				

Sample ID: **115959-046B-DUP** SampType: **DUP** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **1/27/2011** RunNo: **129299**
Client ID: **ZZZZZZ** Batch ID: **70066** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **1/28/2011** SeqNo: **2096900**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.013	0.25						0.01195	0	20	J

Sample ID: **115959-046B-MS** SampType: **MS** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **1/27/2011** RunNo: **129299**
Client ID: **ZZZZZZ** Batch ID: **70066** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **1/28/2011** SeqNo: **2096901**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.209	0.25	2.500	0.01195	87.9	80	118				

Sample ID: **115959-046B-MSD** SampType: **MSD** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **1/27/2011** RunNo: **129299**
Client ID: **ZZZZZZ** Batch ID: **70066** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **1/28/2011** SeqNo: **2096902**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.178	0.25	2.500	0.01195	86.7	80	118	2.209	1.40	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 *Tel: 562. 989.4045* *Fax: 562.989.4040*

April 20, 2011

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 115975

Mike Conkle
Geocon Consultants, Inc.
3303 N. San Fernando Blvd., Suite 100
Burbank, CA 91504

TEL: (818) 841-8388
FAX: (818) 841-1704

RE: State Route 10 ADL, S9500-06-04

Attention: Mike Conkle

Enclosed are the results for sample(s) received on January 25, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an addendum report. Please incorporate with documentation previously submitted.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

CASE NARRATIVE

Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" Flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Analytical Comments for Method 6010

RPD for Duplicate (DUP) is outside criteria for samples 115975-006ADUP, 115975-026ADUP and 115975-045ADUP; however, the Laboratory Control Sample (LCS) validated the analytical batch.

Analytical Comments for Method 7420

Dilution was necessary for samples 115975-040A and 115975-043A, due to sample matrix.

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

Date: 4/20/2011

ANALYTICAL RESULTS

LEAD BY ICP
EPA 6010B

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	115975
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	1/25/2011 6:03:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	JSD

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
115975-001A	1127-103-0.5-1.0	56	mg/Kg	70097	0.11	5.0		1	1/25/2011	1/31/2011
115975-002A	1127-119-1.5-2.0	24	mg/Kg	70097	0.11	5.0		1	1/25/2011	1/31/2011
115975-003A	1127-119-3.5-4.0	7.9	mg/Kg	70097	0.11	5.0		1	1/25/2011	1/31/2011
115975-004A	1127-117-1.5-2.0	5.3	mg/Kg	70097	0.11	5.0		1	1/25/2011	1/31/2011
115975-005A	1127-117-3.5-4.0	6.2	mg/Kg	70097	0.11	5.0		1	1/25/2011	1/31/2011
115975-006A	1127-117-5.5-6.0	4.6	mg/Kg	70097	0.11	5.0	J	1	1/25/2011	1/31/2011
115975-007A	1127-120-1.5-2.0	8.4	mg/Kg	70097	0.11	5.0		1	1/25/2011	1/31/2011
115975-008A	1127-120-3.5-4.0	14	mg/Kg	70097	0.11	5.0		1	1/25/2011	1/31/2011
115975-009A	1127-118-1.5-2.0	8.1	mg/Kg	70097	0.11	5.0		1	1/25/2011	1/31/2011
115975-010A	1127-118-3.5-4.0	6.7	mg/Kg	70097	0.11	5.0		1	1/25/2011	1/31/2011
115975-011A	1127-124-1.5-2.0	180	mg/Kg	70097	0.11	5.0		1	1/25/2011	1/31/2011
115975-012A	1127-124-3.5-4.0	71	mg/Kg	70097	0.11	5.0		1	1/25/2011	1/31/2011
115975-013A	1127-124-5.5-6.0	23	mg/Kg	70097	0.11	5.0		1	1/25/2011	1/31/2011
115975-014A	1127-122-1.5-2.0	8.5	mg/Kg	70097	0.11	5.0		1	1/25/2011	1/31/2011
115975-015A	1127-122-4.5-5.0	14	mg/Kg	70097	0.11	5.0		1	1/25/2011	1/31/2011
115975-016A	1127-121-1.5-2.0	7.1	mg/Kg	70097	0.11	5.0		1	1/25/2011	1/31/2011
115975-017A	1127-121-4.5-5.0	7.9	mg/Kg	70098	0.11	5.0		1	1/25/2011	1/31/2011
115975-018A	1127-121-6.5-7.0	8.2	mg/Kg	70098	0.11	5.0		1	1/25/2011	1/31/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

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Advanced Technology Laboratories

Date: 4/20/2011

ANALYTICAL RESULTS

LEAD BY ICP
EPA 6010B

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	115975
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	1/25/2011 6:03:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	JSD

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
115975-019A	1127-121-9.5-10.0	8.0	mg/Kg	70098	0.11	5.0		1	1/25/2011	1/31/2011
115975-020A	1127-123-1.5-2.0	5.1	mg/Kg	70098	0.11	5.0		1	1/25/2011	1/31/2011
115975-021A	1127-123-3.5-4.0	5.1	mg/Kg	70098	0.11	5.0		1	1/25/2011	1/31/2011
115975-022A	1127-123-5.5-6.0	4.8	mg/Kg	70098	0.11	5.0	J	1	1/25/2011	1/31/2011
115975-023A	1127-110-1.0	11	mg/Kg	70098	0.11	5.0		1	1/25/2011	1/31/2011
115975-024A	1127-112-1.0	13	mg/Kg	70098	0.11	5.0		1	1/25/2011	1/31/2011
115975-025A	1127-111-1.0	14	mg/Kg	70098	0.11	5.0		1	1/25/2011	1/31/2011
115975-026A	1127-113-2.0	21	mg/Kg	70098	0.11	5.0		1	1/25/2011	1/31/2011
115975-027A	1127-125-1.0	60	mg/Kg	70098	0.11	5.0		1	1/25/2011	1/31/2011
115975-028A	1127-126-1.0	24	mg/Kg	70098	0.11	5.0		1	1/25/2011	1/31/2011
115975-029A	1127-128-1.0	25	mg/Kg	70098	0.11	5.0		1	1/25/2011	1/31/2011
115975-030A	1127-127-1.0	85	mg/Kg	70098	0.11	5.0		1	1/25/2011	1/31/2011
115975-031A	1127-155-2.0	8.8	mg/Kg	70098	0.11	5.0		1	1/25/2011	1/31/2011
115975-032A	1127-155-4.0	6.2	mg/Kg	70098	0.11	5.0		1	1/25/2011	1/31/2011
115975-033A	1127-155-6.0	6.2	mg/Kg	70098	0.11	5.0		1	1/25/2011	1/31/2011
115975-034A	1127-156-1.0	15	mg/Kg	70098	0.11	5.0		1	1/25/2011	1/31/2011
115975-035A	1127-156-2.0	24	mg/Kg	70098	0.11	5.0		1	1/25/2011	1/31/2011
115975-036A	1127-158-2.0	36	mg/Kg	70098	0.11	5.0		1	1/25/2011	1/31/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
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ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
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Advanced Technology Laboratories

Date: 4/20/2011

ANALYTICAL RESULTS

LEAD BY ICP
EPA 6010B

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	115975
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	1/25/2011 6:03:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	JSD

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
115975-037A	1127-158-4.0	9.1	mg/Kg	70099	0.11	5.0		1	1/25/2011	1/31/2011
115975-038A	1127-157-1.0	140	mg/Kg	70099	0.11	5.0		1	1/25/2011	1/31/2011
115975-039A	1127-157-2.0	36	mg/Kg	70099	0.11	5.0		1	1/25/2011	1/31/2011
115975-040A	1127-161-1.0	280	mg/Kg	70099	0.11	5.0		1	1/25/2011	1/31/2011
115975-041A	1127-161-3.0	21	mg/Kg	70099	0.11	5.0		1	1/25/2011	1/31/2011
115975-042A	1127-159-1.0	150	mg/Kg	70099	0.11	5.0		1	1/25/2011	1/31/2011
115975-043A	1127-159-2.0	290	mg/Kg	70099	0.11	5.0		1	1/25/2011	1/31/2011
115975-044A	1127-163-1.0	46	mg/Kg	70099	0.11	5.0		1	1/25/2011	1/31/2011
115975-045A	1127-163-3.0	150	mg/Kg	70099	0.11	5.0		1	1/25/2011	1/31/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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Advanced Technology Laboratories

Date: 4/20/2011

ANALYTICAL RESULTS

LEAD BY ATOMIC ABSORPTION
WET DI/ EPA 7420

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	115975
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	1/25/2011 6:03:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	VV

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
115975-011A	1127-124-1.5-2.0	0.46	mg/L	R129816	0.21	0.25		1	1/25/2011	2/10/2011
115975-038A	1127-157-1.0	ND	mg/L	70837	0.21	0.25		1	1/25/2011	2/21/2011
115975-040A	1127-161-1.0	ND	mg/L	70837	0.21	0.25		1	1/25/2011	2/21/2011
115975-042A	1127-159-1.0	ND	mg/L	70837	0.21	0.25		1	1/25/2011	2/21/2011
115975-043A	1127-159-2.0	ND	mg/L	70837	0.21	0.25		1	1/25/2011	2/21/2011
115975-045A	1127-163-3.0	ND	mg/L	70837	0.21	0.25		1	1/25/2011	2/21/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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Advanced Technology Laboratories

Date: 4/20/2011

ANALYTICAL RESULTS

LEAD BY ATOMIC ABSORPTION (STLC)
WET/ EPA 7420

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	115975
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	1/25/2011 6:03:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	VV

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
115975-001A	1127-103-0.5-1.0	2.9	mg/L	70237	0.21	0.25		1	1/25/2011	2/4/2011
115975-011A	1127-124-1.5-2.0	8.4	mg/L	70237	0.21	0.25		1	1/25/2011	2/4/2011
115975-012A	1127-124-3.5-4.0	3.3	mg/L	70237	0.21	0.25		1	1/25/2011	2/4/2011
115975-027A	1127-125-1.0	3.1	mg/L	70237	0.21	0.25		1	1/25/2011	2/4/2011
115975-030A	1127-127-1.0	3.0	mg/L	70237	0.21	0.25		1	1/25/2011	2/4/2011
115975-038A	1127-157-1.0	6.4	mg/L	70713	0.21	0.25		1	1/25/2011	2/17/2011
115975-040A	1127-161-1.0	13	mg/L	70713	0.41	0.50		2	1/25/2011	2/17/2011
115975-042A	1127-159-1.0	5.1	mg/L	70713	0.21	0.25		1	1/25/2011	2/17/2011
115975-043A	1127-159-2.0	14	mg/L	70713	0.41	0.50		2	1/25/2011	2/17/2011
115975-045A	1127-163-3.0	6.9	mg/L	70713	0.21	0.25		1	1/25/2011	2/17/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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Advanced Technology Laboratories

Date: 4/20/2011

ANALYTICAL RESULTS

LEAD BY ATOMIC ABSORPTION (STLC)
WET/ EPA 7420

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	115975
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	1/25/2011 6:03:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
115975-001A	1127-103-0.5-1.0	2.9	mg/L	70237	0.21	0.25		1	1/25/2011	2/4/2011
115975-011A	1127-124-1.5-2.0	8.4	mg/L	70237	0.21	0.25		1	1/25/2011	2/4/2011
115975-012A	1127-124-3.5-4.0	3.3	mg/L	70237	0.21	0.25		1	1/25/2011	2/4/2011
115975-027A	1127-125-1.0	3.1	mg/L	70237	0.21	0.25		1	1/25/2011	2/4/2011
115975-030A	1127-127-1.0	3.0	mg/L	70237	0.21	0.25		1	1/25/2011	2/4/2011
115975-038A	1127-157-1.0	6.4	mg/L	70713	0.21	0.25		1	1/25/2011	2/17/2011
115975-040A	1127-161-1.0	13	mg/L	70713	0.41	0.50		2	1/25/2011	2/17/2011
115975-042A	1127-159-1.0	5.1	mg/L	70713	0.21	0.25		1	1/25/2011	2/17/2011
115975-043A	1127-159-2.0	14	mg/L	70713	0.41	0.50		2	1/25/2011	2/17/2011
115975-045A	1127-163-3.0	6.9	mg/L	70713	0.21	0.25		1	1/25/2011	2/17/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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Date: 4/20/2011

ANALYTICAL RESULTS

LEAD BY ATOMIC ABSORPTION (TCLP)
EPA 1311/ 7420

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	115975
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	1/25/2011 6:03:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	VV

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
115975-011A	1127-124-1.5-2.0	0.28	mg/L	70798	0.21	0.25		1	1/25/2011	2/17/2011
115975-030A	1127-127-1.0	ND	mg/L	70798	0.21	0.25		1	1/25/2011	2/17/2011
115975-038A	1127-157-1.0	0.29	mg/L	70798	0.21	0.25		1	1/25/2011	2/17/2011
115975-040A	1127-161-1.0	0.36	mg/L	70798	0.21	0.25		1	1/25/2011	2/17/2011
115975-043A	1127-159-2.0	0.46	mg/L	70798	0.21	0.25		1	1/25/2011	2/17/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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Advanced Technology Laboratories

Date: 4/20/2011

ANALYTICAL RESULTS

pH
EPA 9045C

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	115975
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	1/25/2011 6:03:00 PM
Project No:		**Matrix:**	Soil
Analyte:	pH	**Analyst:**	CBB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
115975-011A	1127-124-1.5-2.0	7.5	pH Units	R129967	0.10	0.10		1	1/25/2011	2/15/2011
115975-030A	1127-127-1.0	8.0	pH Units	R129968	0.10	0.10		1	1/25/2011	2/15/2011
115975-038A	1127-157-1.0	8.4	pH Units	R129968	0.10	0.10		1	1/25/2011	2/15/2011
115975-040A	1127-161-1.0	8.1	pH Units	R129968	0.10	0.10		1	1/25/2011	2/15/2011
115975-043A	1127-159-2.0	7.9	pH Units	R129968	0.10	0.10		1	1/25/2011	2/15/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
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	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *20-Apr-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	1127-124-1.5-2.0
Lab Order:	115975	**Collection Date:**	1/25/2011 11:38:00 AM
Project:	State Route 10 ADL, S9500-06-04	**Matrix:**	SOIL
Lab ID:	115975-011A		

ICP METALS

EPA 3050B **EPA 6010B**

RunID: **ICP8_110216D** QC Batch: **70741** PrepDate: **2/16/2011** Analyst: **JSD**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
Antimony	0.47	0.16	2.0	J	mg/Kg	1	2/16/2011 01:51 PM
Arsenic	ND	0.20	1.0		mg/Kg	1	2/16/2011 01:51 PM
Barium	96	0.056	1.0		mg/Kg	1	2/16/2011 01:51 PM
Beryllium	ND	0.042	1.0		mg/Kg	1	2/16/2011 01:51 PM
Cadmium	0.46	0.043	1.0	J	mg/Kg	1	2/16/2011 01:51 PM
Chromium	12	0.13	1.0		mg/Kg	1	2/16/2011 01:51 PM
Cobalt	8.4	0.11	1.0		mg/Kg	1	2/16/2011 01:51 PM
Copper	18	0.18	2.0		mg/Kg	1	2/16/2011 01:51 PM
Molybdenum	ND	0.097	1.0		mg/Kg	1	2/16/2011 01:51 PM
Nickel	10	0.11	1.0		mg/Kg	1	2/16/2011 01:51 PM
Selenium	ND	0.28	1.0		mg/Kg	1	2/16/2011 01:51 PM
Silver	ND	0.042	1.0		mg/Kg	1	2/16/2011 01:51 PM
Thallium	ND	0.098	1.0		mg/Kg	1	2/16/2011 01:51 PM
Vanadium	31	0.088	1.0		mg/Kg	1	2/16/2011 01:51 PM
Zinc	61	0.13	1.0		mg/Kg	1	2/16/2011 01:51 PM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471A

RunID: **AA1_110216B** QC Batch: **70740** PrepDate: **2/16/2011** Analyst: **VV**

Mercury	0.049	0.0076	0.10	J	mg/Kg	1	2/16/2011 12:14 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

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Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *20-Apr-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	1127-127-1.0
Lab Order:	115975	**Collection Date:**	1/25/2011 10:30:00 AM
Project:	State Route 10 ADL, S9500-06-04	**Matrix:**	SOIL
Lab ID:	115975-030A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B		**EPA 6010B**				
RunID: **ICP8_110216D**	QC Batch: **70741**				PrepDate:	**2/16/2011**	Analyst: **JSD**
Antimony	1.4	0.16	2.0	J	mg/Kg	1	2/16/2011 02:04 PM
Arsenic	ND	0.20	1.0		mg/Kg	1	2/16/2011 02:04 PM
Barium	120	0.056	1.0		mg/Kg	1	2/16/2011 02:04 PM
Beryllium	ND	0.042	1.0		mg/Kg	1	2/16/2011 02:04 PM
Cadmium	0.68	0.043	1.0	J	mg/Kg	1	2/16/2011 02:04 PM
Chromium	15	0.13	1.0		mg/Kg	1	2/16/2011 02:04 PM
Cobalt	9.3	0.11	1.0		mg/Kg	1	2/16/2011 02:04 PM
Copper	29	0.18	2.0		mg/Kg	1	2/16/2011 02:04 PM
Molybdenum	ND	0.097	1.0		mg/Kg	1	2/16/2011 02:04 PM
Nickel	13	0.11	1.0		mg/Kg	1	2/16/2011 02:04 PM
Selenium	ND	0.28	1.0		mg/Kg	1	2/16/2011 02:04 PM
Silver	ND	0.042	1.0		mg/Kg	1	2/16/2011 02:04 PM
Thallium	ND	0.098	1.0		mg/Kg	1	2/16/2011 02:04 PM
Vanadium	34	0.088	1.0		mg/Kg	1	2/16/2011 02:04 PM
Zinc	200	0.13	1.0		mg/Kg	1	2/16/2011 02:04 PM
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 7471A				
RunID: **AA1_110216B**	QC Batch: **70740**				PrepDate:	**2/16/2011**	Analyst: **VV**
Mercury	0.080	0.0076	0.10	J	mg/Kg	1	2/16/2011 12:18 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

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ANALYTICAL RESULTS

Print Date: *20-Apr-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	1127-157-1.0
Lab Order:	115975	**Collection Date:**	1/25/2011 12:17:00 PM
Project:	State Route 10 ADL, S9500-06-04	**Matrix:**	SOIL
Lab ID:	115975-038A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B		**EPA 6010B**				
RunID: **ICP8_110216D**	QC Batch: **70741**				PrepDate:	**2/16/2011**	Analyst: **JSD**
Antimony	0.52	0.16	2.0	J	mg/Kg	1	2/16/2011 02:14 PM
Arsenic	1.6	0.20	1.0		mg/Kg	1	2/16/2011 02:14 PM
Barium	85	0.056	1.0		mg/Kg	1	2/16/2011 02:14 PM
Beryllium	ND	0.042	1.0		mg/Kg	1	2/16/2011 02:14 PM
Cadmium	0.77	0.043	1.0	J	mg/Kg	1	2/16/2011 02:14 PM
Chromium	10	0.13	1.0		mg/Kg	1	2/16/2011 02:14 PM
Cobalt	6.4	0.11	1.0		mg/Kg	1	2/16/2011 02:14 PM
Copper	16	0.18	2.0		mg/Kg	1	2/16/2011 02:14 PM
Molybdenum	0.74	0.097	1.0	J	mg/Kg	1	2/16/2011 02:14 PM
Nickel	12	0.11	1.0		mg/Kg	1	2/16/2011 02:14 PM
Selenium	ND	0.28	1.0		mg/Kg	1	2/16/2011 02:14 PM
Silver	ND	0.042	1.0		mg/Kg	1	2/16/2011 02:14 PM
Thallium	ND	0.098	1.0		mg/Kg	1	2/16/2011 02:14 PM
Vanadium	22	0.088	1.0		mg/Kg	1	2/16/2011 02:14 PM
Zinc	51	0.13	1.0		mg/Kg	1	2/16/2011 02:14 PM
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 7471A				
RunID: **AA1_110216B**	QC Batch: **70740**				PrepDate:	**2/16/2011**	Analyst: **VV**
Mercury	0.11	0.0076	0.10		mg/Kg	1	2/16/2011 12:20 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *20-Apr-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	1127-161-1.0
Lab Order:	115975	**Collection Date:**	1/25/2011 1:30:00 PM
Project:	State Route 10 ADL, S9500-06-04	**Matrix:**	SOIL
Lab ID:	115975-040A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B		**EPA 6010B**				
RunID: **ICP8_110216D**	QC Batch: **70741**				PrepDate:	**2/16/2011**	Analyst: **JSD**
Antimony	0.28	0.16	2.0	J	mg/Kg	1	2/16/2011 02:17 PM
Arsenic	3.2	0.20	1.0		mg/Kg	1	2/16/2011 02:17 PM
Barium	270	0.056	1.0		mg/Kg	1	2/16/2011 02:17 PM
Beryllium	ND	0.042	1.0		mg/Kg	1	2/16/2011 02:17 PM
Cadmium	2.1	0.043	1.0		mg/Kg	1	2/16/2011 02:17 PM
Chromium	14	0.13	1.0		mg/Kg	1	2/16/2011 02:17 PM
Cobalt	7.2	0.11	1.0		mg/Kg	1	2/16/2011 02:17 PM
Copper	18	0.18	2.0		mg/Kg	1	2/16/2011 02:17 PM
Molybdenum	5.2	0.097	1.0		mg/Kg	1	2/16/2011 02:17 PM
Nickel	24	0.11	1.0		mg/Kg	1	2/16/2011 02:17 PM
Selenium	0.31	0.28	1.0	J	mg/Kg	1	2/16/2011 02:17 PM
Silver	ND	0.042	1.0		mg/Kg	1	2/16/2011 02:17 PM
Thallium	ND	0.098	1.0		mg/Kg	1	2/16/2011 02:17 PM
Vanadium	38	0.088	1.0		mg/Kg	1	2/16/2011 02:17 PM
Zinc	78	0.13	1.0		mg/Kg	1	2/16/2011 02:17 PM
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 7471A				
RunID: **AA1_110216B**	QC Batch: **70740**				PrepDate:	**2/16/2011**	Analyst: **VV**
Mercury	0.054	0.0076	0.10	J	mg/Kg	1	2/16/2011 12:22 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *20-Apr-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	1127-159-2.0
Lab Order:	115975	**Collection Date:**	1/25/2011 2:12:00 PM
Project:	State Route 10 ADL, S9500-06-04	**Matrix:**	SOIL
Lab ID:	115975-043A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B		**EPA 6010B**				
RunID: **ICP8_110217B**	QC Batch: **70748**				PrepDate:	**2/16/2011**	Analyst: **JSD**
Antimony	0.82	0.16	2.0	J	mg/Kg	1	2/17/2011 10:39 AM
Arsenic	8.5	0.20	1.0		mg/Kg	1	2/17/2011 10:39 AM
Barium	130	0.056	1.0		mg/Kg	1	2/17/2011 10:39 AM
Beryllium	ND	0.042	1.0		mg/Kg	1	2/17/2011 10:39 AM
Cadmium	2.8	0.043	1.0		mg/Kg	1	2/17/2011 10:39 AM
Chromium	15	0.13	1.0		mg/Kg	1	2/17/2011 10:39 AM
Cobalt	8.2	0.11	1.0		mg/Kg	1	2/17/2011 10:39 AM
Copper	26	0.18	2.0		mg/Kg	1	2/17/2011 10:39 AM
Molybdenum	4.2	0.097	1.0		mg/Kg	1	2/17/2011 10:39 AM
Nickel	32	0.11	1.0		mg/Kg	1	2/17/2011 10:39 AM
Selenium	ND	0.28	1.0		mg/Kg	1	2/17/2011 10:39 AM
Silver	ND	0.042	1.0		mg/Kg	1	2/17/2011 10:39 AM
Thallium	ND	0.098	1.0		mg/Kg	1	2/17/2011 10:39 AM
Vanadium	48	0.088	1.0		mg/Kg	1	2/17/2011 10:39 AM
Zinc	120	0.13	1.0		mg/Kg	1	2/17/2011 10:39 AM
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 7471A				
RunID: **AA1_110216B**	QC Batch: **70740**				PrepDate:	**2/16/2011**	Analyst: **VV**
Mercury	0.056	0.0076	0.10	J	mg/Kg	1	2/16/2011 12:24 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

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CLIENT: Geocon Consultants, Inc.
Work Order: 115975
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **MB-70741** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/16/2011** RunNo: **130035**
Client ID: **PBS** Batch ID: **70741** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/16/2011** SeqNo: **2112900**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.230	2.0									J
Arsenic	ND	1.0									
Barium	ND	1.0									
Beryllium	ND	1.0									
Cadmium	ND	1.0									
Chromium	ND	1.0									
Cobalt	ND	1.0									
Copper	ND	2.0									
Lead	ND	1.0									
Molybdenum	ND	1.0									
Nickel	ND	1.0									
Selenium	ND	1.0									
Silver	ND	1.0									
Thallium	ND	1.0									
Vanadium	ND	1.0									
Zinc	0.182	1.0									J

Sample ID: **LCS-70741** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/16/2011** RunNo: **130035**
Client ID: **LCSS** Batch ID: **70741** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/16/2011** SeqNo: **2112901**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	46.654	2.0	50.00	0.2304	92.8	80	120				
Arsenic	45.093	1.0	50.00	0	90.2	80	120				
Barium	49.554	1.0	50.00	0	99.1	80	120				
Beryllium	48.956	1.0	50.00	0	97.9	80	120				
Cadmium	45.858	1.0	50.00	0	91.7	80	120				
Chromium	45.309	1.0	50.00	0	90.6	80	120				
Cobalt	48.168	1.0	50.00	0	96.3	80	120				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 115975
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **LCS-70741** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/16/2011** RunNo: **130035**
Client ID: **LCSS** Batch ID: **70741** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/16/2011** SeqNo: **2112901**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	50.007	2.0	50.00	0	100	80	120				
Lead	47.124	1.0	50.00	0	94.2	80	120				
Molybdenum	49.220	1.0	50.00	0	98.4	80	120				
Nickel	46.335	1.0	50.00	0	92.7	80	120				
Selenium	42.382	1.0	50.00	0	84.8	80	120				
Silver	47.166	1.0	50.00	0	94.3	80	120				
Thallium	46.803	1.0	50.00	0	93.6	80	120				
Vanadium	50.481	1.0	50.00	0	101	80	120				
Zinc	45.614	1.0	50.00	0.1817	90.9	80	120				

Sample ID: **115975-011A-DUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/16/2011** RunNo: **130035**
Client ID: **1127-124-1.5-2.0** Batch ID: **70741** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/16/2011** SeqNo: **2112906**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.415	2.0						0.4690	0	20	J
Arsenic	ND	1.0						0	0	20	
Barium	101.683	1.0						96.38	5.35	20	
Beryllium	ND	1.0						0	0	20	
Cadmium	0.458	1.0						0.4621	0	20	J
Chromium	12.400	1.0						11.94	3.81	20	
Cobalt	8.476	1.0						8.361	1.36	20	
Copper	21.523	2.0						18.06	17.5	20	
Lead	133.968	1.0						129.9	3.06	20	
Molybdenum	ND	1.0						0	0	20	
Nickel	10.649	1.0						10.38	2.54	20	
Selenium	ND	1.0						0	0	20	
Silver	ND	1.0						0	0	20	
Thallium	ND	1.0						0	0	20	
Vanadium	30.550	1.0						30.60	0.171	20	
Zinc	61.160	1.0						60.78	0.619	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 115975
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **115975-011A-MS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/16/2011** RunNo: **130035**
Client ID: **1127-124-1.5-2.0** Batch ID: **70741** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/16/2011** SeqNo: **2112907**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	93.361	2.0	125.0	0.4690	74.3	32	105				
Arsenic	92.363	1.0	125.0	0	73.9	49	106				
Barium	232.927	1.0	125.0	96.38	109	31	133				
Beryllium	104.410	1.0	125.0	0	83.5	56	106				
Cadmium	94.939	1.0	125.0	0.4621	75.6	51	103				
Chromium	110.254	1.0	125.0	11.94	78.7	45	114				
Cobalt	106.809	1.0	125.0	8.361	78.8	52	106				
Copper	132.628	2.0	125.0	18.06	91.7	54	125				
Lead	237.887	1.0	125.0	129.9	86.4	34	126				
Molybdenum	103.186	1.0	125.0	0	82.5	54	106				
Nickel	108.153	1.0	125.0	10.38	78.2	45	111				
Selenium	91.097	1.0	125.0	0	72.9	47	104				
Silver	109.045	1.0	125.0	0	87.2	56	112				
Thallium	84.185	1.0	125.0	0	67.3	46	101				
Vanadium	138.071	1.0	125.0	30.60	86.0	54	114				
Zinc	226.603	1.0	125.0	60.78	133	28	125				S

Sample ID: **115975-011A-MSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/16/2011** RunNo: **130035**
Client ID: **1127-124-1.5-2.0** Batch ID: **70741** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/16/2011** SeqNo: **2112908**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	94.964	2.0	125.0	0.4690	75.6	32	105	93.36	1.70	20	
Arsenic	97.250	1.0	125.0	0	77.8	49	106	92.36	5.15	20	
Barium	191.079	1.0	125.0	96.38	75.8	31	133	232.9	19.7	20	
Beryllium	105.422	1.0	125.0	0	84.3	56	106	104.4	0.964	20	
Cadmium	99.729	1.0	125.0	0.4621	79.4	51	103	94.94	4.92	20	
Chromium	110.104	1.0	125.0	11.94	78.5	45	114	110.3	0.136	20	
Cobalt	109.200	1.0	125.0	8.361	80.7	52	106	106.8	2.21	20	
Copper	130.488	2.0	125.0	18.06	89.9	54	125	132.6	1.63	20	
Lead	229.087	1.0	125.0	129.9	79.3	34	126	237.9	3.77	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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CLIENT: Geocon Consultants, Inc.
Work Order: 115975
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **115975-011A-MSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/16/2011** RunNo: **130035**
Client ID: **1127-124-1.5-2.0** Batch ID: **70741** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/16/2011** SeqNo: **2112908**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	104.601	1.0	125.0	0	83.7	54	106	103.2	1.36	20	
Nickel	107.784	1.0	125.0	10.38	77.9	45	111	108.2	0.342	20	
Selenium	96.503	1.0	125.0	0	77.2	47	104	91.10	5.76	20	
Silver	109.305	1.0	125.0	0	87.4	56	112	109.0	0.238	20	
Thallium	87.415	1.0	125.0	0	69.9	46	101	84.19	3.76	20	
Vanadium	135.472	1.0	125.0	30.60	83.9	54	114	138.1	1.90	20	
Zinc	155.385	1.0	125.0	60.78	75.7	28	125	226.6	37.3	20	R

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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CLIENT: Geocon Consultants, Inc.
Work Order: 115975
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **MB-70748** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/16/2011** RunNo: **130059**
Client ID: **PBS** Batch ID: **70748** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/17/2011** SeqNo: **2113419**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.626	2.0									J
Arsenic	ND	1.0									
Barium	ND	1.0									
Beryllium	ND	1.0									
Cadmium	ND	1.0									
Chromium	ND	1.0									
Cobalt	ND	1.0									
Copper	ND	2.0									
Lead	ND	1.0									
Molybdenum	ND	1.0									
Nickel	ND	1.0									
Selenium	ND	1.0									
Silver	ND	1.0									
Thallium	ND	1.0									
Vanadium	ND	1.0									
Zinc	0.343	1.0									J

Sample ID: **LCS-70748** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/16/2011** RunNo: **130059**
Client ID: **LCSS** Batch ID: **70748** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/17/2011** SeqNo: **2113420**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	46.685	2.0	50.00	0.6262	92.1	80	120				
Arsenic	46.475	1.0	50.00	0	93.0	80	120				
Barium	48.192	1.0	50.00	0	96.4	80	120				
Beryllium	47.796	1.0	50.00	0	95.6	80	120				
Cadmium	46.980	1.0	50.00	0	94.0	80	120				
Chromium	44.201	1.0	50.00	0	88.4	80	120				
Cobalt	47.820	1.0	50.00	0	95.6	80	120				
Copper	47.445	2.0	50.00	0	94.9	80	120				
Lead	47.986	1.0	50.00	0	96.0	80	120				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 115975
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **LCS-70748** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/16/2011** RunNo: **130059**
Client ID: **LCSS** Batch ID: **70748** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/17/2011** SeqNo: **2113420**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	49.000	1.0	50.00	0	98.0	80	120				
Nickel	47.389	1.0	50.00	0	94.8	80	120				
Selenium	44.946	1.0	50.00	0	89.9	80	120				
Silver	45.020	1.0	50.00	0	90.0	80	120				
Thallium	45.931	1.0	50.00	0	91.9	80	120				
Vanadium	48.769	1.0	50.00	0	97.5	80	120				
Zinc	47.112	1.0	50.00	0.3433	93.5	80	120				

Sample ID: **115975-043A-DUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/16/2011** RunNo: **130059**
Client ID: **1127-159-2.0** Batch ID: **70748** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/17/2011** SeqNo: **2113422**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.465	2.0						0.8179	0	20	J
Arsenic	5.517	1.0						8.495	42.5	20	R
Barium	119.558	1.0						133.8	11.3	20	
Beryllium	ND	1.0						0	0	20	
Cadmium	2.463	1.0						2.787	12.3	20	
Chromium	13.428	1.0						15.22	12.5	20	
Cobalt	5.716	1.0						8.220	35.9	20	R
Copper	21.156	2.0						25.87	20.0	20	R
Lead	168.281	1.0						241.3	35.6	20	R
Molybdenum	3.328	1.0						4.170	22.4	20	R
Nickel	23.827	1.0						32.07	29.5	20	R
Selenium	ND	1.0						0	0	20	
Silver	ND	1.0						0	0	20	
Thallium	ND	1.0						0	0	20	
Vanadium	39.408	1.0						47.73	19.1	20	
Zinc	92.347	1.0						124.9	30.0	20	R

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 115975
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **115975-043A-MS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/16/2011** RunNo: **130059**
Client ID: **1127-159-2.0** Batch ID: **70748** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/17/2011** SeqNo: **2113423**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	84.313	2.0	125.0	0.8179	66.8	32	105				
Arsenic	104.524	1.0	125.0	8.495	76.8	49	106				
Barium	230.347	1.0	125.0	133.8	77.2	31	133				
Beryllium	102.117	1.0	125.0	0	81.7	56	106				
Cadmium	98.530	1.0	125.0	2.787	76.6	51	103				
Chromium	111.488	1.0	125.0	15.22	77.0	45	114				
Cobalt	105.075	1.0	125.0	8.220	77.5	52	106				
Copper	136.687	2.0	125.0	25.87	88.7	54	125				
Lead	363.189	1.0	125.0	241.3	97.5	34	126				
Molybdenum	103.717	1.0	125.0	4.170	79.6	54	106				
Nickel	125.779	1.0	125.0	32.07	75.0	45	111				
Selenium	97.651	1.0	125.0	0	78.1	47	104				
Silver	104.528	1.0	125.0	0	83.6	56	112				
Thallium	87.035	1.0	125.0	0	69.6	46	101				
Vanadium	150.349	1.0	125.0	47.73	82.1	54	114				
Zinc	208.968	1.0	125.0	124.9	67.2	28	125				

Sample ID: **115975-043A-MSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/16/2011** RunNo: **130059**
Client ID: **1127-159-2.0** Batch ID: **70748** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/17/2011** SeqNo: **2113424**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	85.758	2.0	125.0	0.8179	68.0	32	105	84.31	1.70	20	
Arsenic	105.729	1.0	125.0	8.495	77.8	49	106	104.5	1.15	20	
Barium	224.780	1.0	125.0	133.8	72.8	31	133	230.3	2.45	20	
Beryllium	102.680	1.0	125.0	0	82.1	56	106	102.1	0.550	20	
Cadmium	98.990	1.0	125.0	2.787	77.0	51	103	98.53	0.465	20	
Chromium	112.043	1.0	125.0	15.22	77.5	45	114	111.5	0.496	20	
Cobalt	105.637	1.0	125.0	8.220	77.9	52	106	105.1	0.533	20	
Copper	135.831	2.0	125.0	25.87	88.0	54	125	136.7	0.628	20	
Lead	319.588	1.0	125.0	241.3	62.6	34	126	363.2	12.8	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Geocon Consultants, Inc.
Work Order: 115975
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **115975-043A-MSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/16/2011** RunNo: **130059**
Client ID: **1127-159-2.0** Batch ID: **70748** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/17/2011** SeqNo: **2113424**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	105.097	1.0	125.0	4.170	80.7	54	106	103.7	1.32	20	
Nickel	126.793	1.0	125.0	32.07	75.8	45	111	125.8	0.803	20	
Selenium	98.785	1.0	125.0	0	79.0	47	104	97.65	1.15	20	
Silver	105.590	1.0	125.0	0	84.5	56	112	104.5	1.01	20	
Thallium	88.731	1.0	125.0	0	71.0	46	101	87.04	1.93	20	
Vanadium	149.637	1.0	125.0	47.73	81.5	54	114	150.3	0.474	20	
Zinc	208.227	1.0	125.0	124.9	66.6	28	125	209.0	0.355	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 115975
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **MB-70097A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/28/2011** RunNo: **129341**
Client ID: **PBS** Batch ID: **70097** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/31/2011** SeqNo: **2097754**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.247	5.0									J

Sample ID: **LCS-70097** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/28/2011** RunNo: **129341**
Client ID: **LCSS** Batch ID: **70097** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/31/2011** SeqNo: **2097755**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	283.892	5.0	250.0	0.2469	113	80	120				

Sample ID: **115975-006A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/28/2011** RunNo: **129341**
Client ID: **1127-117-5.5-6.0** Batch ID: **70097** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/31/2011** SeqNo: **2097766**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	6.063	5.0						4.616	27.1	20	R

Sample ID: **115975-006A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/28/2011** RunNo: **129341**
Client ID: **1127-117-5.5-6.0** Batch ID: **70097** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/31/2011** SeqNo: **2097767**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	233.172	5.0	250.0	4.616	91.4	34	126				

Sample ID: **MB-70097B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/28/2011** RunNo: **129341**
Client ID: **PBS** Batch ID: **70097** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/31/2011** SeqNo: **2097768**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.193	5.0									J

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 115975
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **115975-016A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/28/2011** RunNo: **129341**
Client ID: **1127-121-1.5-2.0** Batch ID: **70097** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/31/2011** SeqNo: **2097779**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.574	5.0						7.099	6.48	20	

Sample ID: **115975-016A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/28/2011** RunNo: **129341**
Client ID: **1127-121-1.5-2.0** Batch ID: **70097** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/31/2011** SeqNo: **2097780**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	211.017	5.0	250.0	7.099	81.6	34	126				

Sample ID: **115975-016A-MSD** SampType: **MSD** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/28/2011** RunNo: **129341**
Client ID: **1127-121-1.5-2.0** Batch ID: **70097** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/31/2011** SeqNo: **2097781**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	227.394	5.0	250.0	7.099	88.1	34	126	211.0	7.47	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
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CLIENT: Geocon Consultants, Inc.
Work Order: 115975
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **MB-70098A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/28/2011** RunNo: **129342**
Client ID: **PBS** Batch ID: **70098** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/31/2011** SeqNo: **2097782**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.200	5.0									J

Sample ID: **LCS-70098** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/28/2011** RunNo: **129342**
Client ID: **LCSS** Batch ID: **70098** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/31/2011** SeqNo: **2097783**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	256.737	5.0	250.0	0.1996	103	80	120				

Sample ID: **115975-026A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/28/2011** RunNo: **129342**
Client ID: **1127-113-2.0** Batch ID: **70098** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/31/2011** SeqNo: **2097794**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	51.465	5.0						21.46	82.3	20	R

Sample ID: **115975-026A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/28/2011** RunNo: **129342**
Client ID: **1127-113-2.0** Batch ID: **70098** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/31/2011** SeqNo: **2097795**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	263.621	5.0	250.0	21.46	96.9	34	126				

Sample ID: **MB-70098A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/28/2011** RunNo: **129342**
Client ID: **PBS** Batch ID: **70098** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/31/2011** SeqNo: **2097796**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.138	5.0									J

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 115975
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **115975-036A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/28/2011** RunNo: **129342**
Client ID: **1127-158-2.0** Batch ID: **70098** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/31/2011** SeqNo: **2097807**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	31.663	5.0						35.98	12.8	20	

Sample ID: **115975-036A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/28/2011** RunNo: **129342**
Client ID: **1127-158-2.0** Batch ID: **70098** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/31/2011** SeqNo: **2097808**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	248.291	5.0	250.0	35.98	84.9	34	126				

Sample ID: **115975-036A-MSD** SampType: **MSD** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/28/2011** RunNo: **129342**
Client ID: **1127-158-2.0** Batch ID: **70098** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/31/2011** SeqNo: **2097809**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	268.912	5.0	250.0	35.98	93.2	34	126	248.3	7.97	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 115975
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **MB-70099A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/28/2011** RunNo: **129343**
Client ID: **PBS** Batch ID: **70099** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/31/2011** SeqNo: **2097810**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.239	5.0									J

Sample ID: **LCS-70099** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/28/2011** RunNo: **129343**
Client ID: **LCSS** Batch ID: **70099** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/31/2011** SeqNo: **2097811**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	288.430	5.0	250.0	0.2386	115	80	120				

Sample ID: **115975-045A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/28/2011** RunNo: **129343**
Client ID: **1127-163-3.0** Batch ID: **70099** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/31/2011** SeqNo: **2097821**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	107.481	5.0						147.0	31.1	20	R

Sample ID: **115975-045A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/28/2011** RunNo: **129343**
Client ID: **1127-163-3.0** Batch ID: **70099** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/31/2011** SeqNo: **2097822**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	255.099	5.0	250.0	147.0	43.2	34	126				

Sample ID: **115975-045A-MSD** SampType: **MSD** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/28/2011** RunNo: **129343**
Client ID: **1127-163-3.0** Batch ID: **70099** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/31/2011** SeqNo: **2097823**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	302.159	5.0	250.0	147.0	62.1	34	126	255.1	16.9	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 115975
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI_GEOCON

Sample ID: **MB-70713A** SampType: **MBLK** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **130072**
Client ID: **PBS** Batch ID: **70713** TestNo: **WET DI/ EPA WET** Analysis Date: **2/17/2011** SeqNo: **2113685**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-70713** SampType: **LCS** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **130072**
Client ID: **LCSS** Batch ID: **70713** TestNo: **WET DI/ EPA WET** Analysis Date: **2/17/2011** SeqNo: **2113686**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.849	0.25	5.000	0	97.0	80	120				

Sample ID: **116098-002A-DUP** SampType: **DUP** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **130072**
Client ID: **ZZZZZZ** Batch ID: **70713** TestNo: **WET DI/ EPA WET** Analysis Date: **2/17/2011** SeqNo: **2113690**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25						0	0	20	

Sample ID: **116098-002A-MS** SampType: **MS** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **130072**
Client ID: **ZZZZZZ** Batch ID: **70713** TestNo: **WET DI/ EPA WET** Analysis Date: **2/17/2011** SeqNo: **2113691**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.006	0.25	5.000	0	100	70	130				

Sample ID: **116098-002A-MSD** SampType: **MSD** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **130072**
Client ID: **ZZZZZZ** Batch ID: **70713** TestNo: **WET DI/ EPA WET** Analysis Date: **2/17/2011** SeqNo: **2113692**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.069	0.25	5.000	0	101	70	130	5.006	1.25	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 115975
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI_GEOCON

Sample ID: **MB-70837A** SampType: **MBLK** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/18/2011** RunNo: **130159**
Client ID: **PBS** Batch ID: **70837** TestNo: **WET DI/ EPA WET** Analysis Date: **2/21/2011** SeqNo: **2115896**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-70837** SampType: **LCS** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/18/2011** RunNo: **130159**
Client ID: **LCSS** Batch ID: **70837** TestNo: **WET DI/ EPA WET** Analysis Date: **2/21/2011** SeqNo: **2115897**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.748	0.25	5.000	0	95.0	80	120				

Sample ID: **115975-045A-DUP** SampType: **DUP** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/18/2011** RunNo: **130159**
Client ID: **1127-163-3.0** Batch ID: **70837** TestNo: **WET DI/ EPA WET** Analysis Date: **2/21/2011** SeqNo: **2115903**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25						0	0	20	

Sample ID: **115975-045A-MS** SampType: **MS** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/18/2011** RunNo: **130159**
Client ID: **1127-163-3.0** Batch ID: **70837** TestNo: **WET DI/ EPA WET** Analysis Date: **2/21/2011** SeqNo: **2115904**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.025	0.25	5.000	0	101	70	130				

Sample ID: **115975-045A-MSD** SampType: **MSD** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/18/2011** RunNo: **130159**
Client ID: **1127-163-3.0** Batch ID: **70837** TestNo: **WET DI/ EPA WET** Analysis Date: **2/21/2011** SeqNo: **2115905**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.088	0.25	5.000	0	102	70	130	5.025	1.23	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 115975
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI_GEOCON

Sample ID: **MB-70503A** SampType: **MBLK** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: RunNo: **129816**
Client ID: **PBS** Batch ID: **R129816** TestNo: **WET DI/ EPA** Analysis Date: **2/10/2011** SeqNo: **2107813**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-70503** SampType: **LCS** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: RunNo: **129816**
Client ID: **LCSS** Batch ID: **R129816** TestNo: **WET DI/ EPA** Analysis Date: **2/10/2011** SeqNo: **2107814**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.943	0.25	5.000	0	98.9	80	120				

Sample ID: **115975-011A-DUP** SampType: **DUP** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: RunNo: **129816**
Client ID: **1127-124-1.5-2.0** Batch ID: **R129816** TestNo: **WET DI/ EPA** Analysis Date: **2/10/2011** SeqNo: **2107820**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.454	0.25						0.4641	2.21	20	

Sample ID: **115975-011A-MS** SampType: **MS** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: RunNo: **129816**
Client ID: **1127-124-1.5-2.0** Batch ID: **R129816** TestNo: **WET DI/ EPA** Analysis Date: **2/10/2011** SeqNo: **2107821**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.135	0.25	5.000	0.4641	93.4	70	130				

Sample ID: **115975-011A-MSD** SampType: **MSD** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: RunNo: **129816**
Client ID: **1127-124-1.5-2.0** Batch ID: **R129816** TestNo: **WET DI/ EPA** Analysis Date: **2/10/2011** SeqNo: **2107822**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.565	0.25	5.000	0.4641	102	70	130	5.135	8.05	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 115975
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID: **MB-70237A** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/2/2011** RunNo: **129591**
Client ID: **PBS** Batch ID: **70237** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/4/2011** SeqNo: **2103152**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-70237** SampType: **LCS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/2/2011** RunNo: **129591**
Client ID: **LCSS** Batch ID: **70237** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/4/2011** SeqNo: **2103153**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.128	0.25	5.000	0	103	80	120				

Sample ID: **115934-020A-DUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/2/2011** RunNo: **129591**
Client ID: **ZZZZZZ** Batch ID: **70237** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/4/2011** SeqNo: **2103157**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	11.847	0.50						11.73	1.01	20	

Sample ID: **115934-020A-MS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/2/2011** RunNo: **129591**
Client ID: **ZZZZZZ** Batch ID: **70237** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/4/2011** SeqNo: **2103158**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	16.575	0.50	5.000	11.73	96.9	80	120				

Sample ID: **MB-70237B** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/2/2011** RunNo: **129591**
Client ID: **PBS** Batch ID: **70237** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/4/2011** SeqNo: **2103159**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 115975
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID: **115975-030A-DUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/2/2011** RunNo: **129591**
Client ID: **1127-127-1.0** Batch ID: **70237** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/4/2011** SeqNo: **2103166**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.937	0.25						2.955	0.617	20	

Sample ID: **115975-030A-MS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/2/2011** RunNo: **129591**
Client ID: **1127-127-1.0** Batch ID: **70237** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/4/2011** SeqNo: **2103167**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.593	0.25	5.000	2.955	92.8	80	120				

Sample ID: **115975-030A-MSD** SampType: **MSD** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/2/2011** RunNo: **129591**
Client ID: **1127-127-1.0** Batch ID: **70237** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/4/2011** SeqNo: **2103168**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.701	0.25	5.000	2.955	94.9	80	120	7.593	1.41	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 115975
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID: **MB-70713A** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **130066**
Client ID: **PBS** Batch ID: **70713** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/17/2011** SeqNo: **2113592**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-70713** SampType: **LCS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **130066**
Client ID: **LCSS** Batch ID: **70713** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/17/2011** SeqNo: **2113593**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.952	0.25	5.000	0	99.0	80	120				

Sample ID: **115975-045A-DUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **130066**
Client ID: **1127-163-3.0** Batch ID: **70713** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/17/2011** SeqNo: **2113599**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	6.859	0.25						6.913	0.785	20	

Sample ID: **115975-045A-MS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **130066**
Client ID: **1127-163-3.0** Batch ID: **70713** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/17/2011** SeqNo: **2113600**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	11.922	0.50	5.000	6.913	100	80	120				

Sample ID: **115975-045A-MSD** SampType: **MSD** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **130066**
Client ID: **1127-163-3.0** Batch ID: **70713** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/17/2011** SeqNo: **2113601**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	11.970	0.50	5.000	6.913	101	80	120	11.92	0.397	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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CLIENT: Geocon Consultants, Inc.
Work Order: 115975
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: **MB-70798A** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/17/2011** RunNo: **130084**
Client ID: **PBS** Batch ID: **70798** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/17/2011** SeqNo: **2113909**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **MB-70767A TCLP** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/17/2011** RunNo: **130084**
Client ID: **PBS** Batch ID: **70798** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/17/2011** SeqNo: **2113910**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-70798** SampType: **LCS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/17/2011** RunNo: **130084**
Client ID: **LCSS** Batch ID: **70798** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/17/2011** SeqNo: **2113911**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.067	0.25	1.000	0	107	80	120				

Sample ID: **115975-043A-DUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/17/2011** RunNo: **130084**
Client ID: **1127-159-2.0** Batch ID: **70798** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/17/2011** SeqNo: **2113917**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.449	0.25						0.4571	1.82	20	

Sample ID: **115975-043A-MS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/17/2011** RunNo: **130084**
Client ID: **1127-159-2.0** Batch ID: **70798** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/17/2011** SeqNo: **2113918**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.014	0.25	2.500	0.4571	102	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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CLIENT: Geocon Consultants, Inc.
Work Order: 115975
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: **115975-043A-MSD** SampType: **MSD** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/17/2011** RunNo: **130084**
Client ID: **1127-159-2.0** Batch ID: **70798** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/17/2011** SeqNo: **2113919**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.030	0.25	2.500	0.4571	103	70	130	3.014	0.530	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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CLIENT: Geocon Consultants, Inc.
Work Order: 115975
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

Sample ID: **MB-70740**	SampType: **MBLK**	TestCode: **7471_S**	Units: **mg/Kg**	Prep Date: **2/16/2011**	RunNo: **130021**
Client ID: **PBS**	Batch ID: **70740**	TestNo: **EPA 7471A**		Analysis Date: **2/16/2011**	SeqNo: **2112532**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: **LCS-70740**	SampType: **LCS**	TestCode: **7471_S**	Units: **mg/Kg**	Prep Date: **2/16/2011**	RunNo: **130021**
Client ID: **LCSS**	Batch ID: **70740**	TestNo: **EPA 7471A**		Analysis Date: **2/16/2011**	SeqNo: **2112533**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.810	0.10	0.8300	0	97.6	80	120				

Sample ID: **115975-011A-MS**	SampType: **MS**	TestCode: **7471_S**	Units: **mg/Kg**	Prep Date: **2/16/2011**	RunNo: **130021**
Client ID: **1127-124-1.5-2.0**	Batch ID: **70740**	TestNo: **EPA 7471A**		Analysis Date: **2/16/2011**	SeqNo: **2112534**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.041	0.10	0.8300	0.04931	119	70	130				

Sample ID: **115975-011A-MSD**	SampType: **MSD**	TestCode: **7471_S**	Units: **mg/Kg**	Prep Date: **2/16/2011**	RunNo: **130021**
Client ID: **1127-124-1.5-2.0**	Batch ID: **70740**	TestNo: **EPA 7471A**		Analysis Date: **2/16/2011**	SeqNo: **2112535**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.037	0.10	0.8300	0.04931	119	70	130	1.041	0.371	20	

Sample ID: **115975-011A-DUP**	SampType: **DUP**	TestCode: **7471_S**	Units: **mg/Kg**	Prep Date: **2/16/2011**	RunNo: **130021**
Client ID: **1127-124-1.5-2.0**	Batch ID: **70740**	TestNo: **EPA 7471A**		Analysis Date: **2/16/2011**	SeqNo: **2112537**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.048	0.10						0.04931	0	20	J

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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CLIENT: Geocon Consultants, Inc.
Work Order: 115975
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 9045_S

Sample ID: **116006-038ADUP** SampType: **DUP** TestCode: **9045_S** Units: **pH Units** Prep Date: RunNo: **129967**
Client ID: **ZZZZZZ** Batch ID: **R129967** TestNo: **EPA 9045C** Analysis Date: **2/15/2011** SeqNo: **2111248**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.820	0.10						7.860	0.510	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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CLIENT: Geocon Consultants, Inc.
Work Order: 115975
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 9045_S

Sample ID: **116069-022ADUP** SampType: **DUP** TestCode: **9045_S** Units: **pH Units** Prep Date: RunNo: **129968**
Client ID: **ZZZZZZ** Batch ID: **R129968** TestNo: **EPA 9045C** Analysis Date: **2/15/2011** SeqNo: **2111271**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.860	0.10						7.950	1.14	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories
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April 20, 2011

Mike Conkle
Geocon Consultants, Inc.
3303 N. San Fernando Blvd., Suite 100
Burbank, CA 91504

TEL: (818) 841-8388
FAX: (818) 841-1704

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 116006

RE: State Route 10 ADL, S9500-06-04

Attention: Mike Conkle

Enclosed are the results for sample(s) received on January 26, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an addendum report. Please incorporate with documentation previously submitted.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

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Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" Flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Analytical Comments for Method 6010

RPD for Duplicate (DUP) is outside criteria for samples 116006-010ADUP, 116006-030ADUP, 116006-040ADUP and 116006-050ADUP; however, the Laboratory Control Sample (LCS) validated the analytical batch.

Analytical Comments for Method 7420

Dilution was necessary for samples 116006-027A, 116006-028A and 116006-039A, due to sample matrix.

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Advanced Technology Laboratories

Date: 4/20/2011

ANALYTICAL RESULTS

LEAD BY ICP
EPA 6010B

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	116006
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	1/26/2011 6:16:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	SRB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
116006-001A	1127-127-0.5-1.0	40	mg/Kg	70170	0.11	5.0		1	1/26/2011	2/1/2011
116006-002A	1127-127-1.5-2.0	14	mg/Kg	70170	0.11	5.0		1	1/26/2011	2/1/2011
116006-003A	1127-129-0.5-1.0	23	mg/Kg	70170	0.11	5.0		1	1/26/2011	2/1/2011
116006-004A	1127-129-1.5-2.0	19	mg/Kg	70170	0.11	5.0		1	1/26/2011	2/1/2011
116006-005A	1127-130-1.5-2.0	7.3	mg/Kg	70170	0.11	5.0		1	1/26/2011	2/1/2011
116006-006A	1127-130-4.5-5.0	7.0	mg/Kg	70170	0.11	5.0		1	1/26/2011	2/1/2011
116006-007A	1127-130-6.5-7.0	6.2	mg/Kg	70170	0.11	5.0		1	1/26/2011	2/1/2011
116006-008A	1127-130-9.5-10.0	9.0	mg/Kg	70170	0.11	5.0		1	1/26/2011	2/1/2011
116006-009A	1127-132-1.5-2.0	80	mg/Kg	70170	0.11	5.0		1	1/26/2011	2/1/2011
116006-010A	1127-132-4.5-5.0	21	mg/Kg	70170	0.11	5.0		1	1/26/2011	2/1/2011
116006-011A	1127-134-1.5-2.0	19	mg/Kg	70170	0.11	5.0		1	1/26/2011	2/1/2011
116006-012A	1127-134-4.5-5.0	14	mg/Kg	70170	0.11	5.0		1	1/26/2011	2/1/2011
116006-013A	1127-136-1.5-2.0	11	mg/Kg	70170	0.11	5.0		1	1/26/2011	2/1/2011
116006-014A	1127-136-4.5-5.0	21	mg/Kg	70170	0.11	5.0		1	1/26/2011	2/1/2011
116006-015A	1127-135-0.5-1.0	19	mg/Kg	70170	0.11	5.0		1	1/26/2011	2/1/2011
116006-016A	1127-135-1.5-2.0	26	mg/Kg	70170	0.11	5.0		1	1/26/2011	2/1/2011
116006-017A	1127-133-0.5-1.0	21	mg/Kg	70170	0.11	5.0		1	1/26/2011	2/1/2011
116006-018A	1127-133-1.5-2.0	20	mg/Kg	70170	0.11	5.0		1	1/26/2011	2/1/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

Date: 4/20/2011

ANALYTICAL RESULTS

LEAD BY ICP
EPA 6010B

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	116006
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	1/26/2011 6:16:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	SRB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
116006-019A	1127-138-1.5-2.0	50	mg/Kg	70170	0.11	5.0		1	1/26/2011	2/1/2011
116006-020A	1127-138-3.5-4.0	9.0	mg/Kg	70170	0.11	5.0		1	1/26/2011	2/1/2011
116006-021A	1127-138-5.5-6.0	8.6	mg/Kg	70171	0.11	5.0		1	1/26/2011	2/1/2011
116006-022A	1127-138-8.5-9.0	6.5	mg/Kg	70171	0.11	5.0		1	1/26/2011	2/1/2011
116006-023A	1127-137-1.5-2.0	15	mg/Kg	70171	0.11	5.0		1	1/26/2011	2/1/2011
116006-024A	1127-137-3.5-4.0	11	mg/Kg	70171	0.11	5.0		1	1/26/2011	2/1/2011
116006-025A	1127-137-5.5-6.0	7.7	mg/Kg	70171	0.11	5.0		1	1/26/2011	2/1/2011
116006-026A	1127-137-8.5-9.0	9.5	mg/Kg	70171	0.11	5.0		1	1/26/2011	2/1/2011
116006-027A	1127-165-1.0	120	mg/Kg	70171	0.11	5.0		1	1/26/2011	2/1/2011
116006-028A	1127-165-2.0	130	mg/Kg	70171	0.11	5.0		1	1/26/2011	2/1/2011
116006-029A	1127-166-1.0	48	mg/Kg	70171	0.11	5.0		1	1/26/2011	2/1/2011
116006-030A	1127-166-3.0	17	mg/Kg	70171	0.11	5.0		1	1/26/2011	2/1/2011
116006-031A	1127-164-1.0	30	mg/Kg	70171	0.11	5.0		1	1/26/2011	2/1/2011
116006-032A	1127-164-3.0	36	mg/Kg	70171	0.11	5.0		1	1/26/2011	2/1/2011
116006-033A	1127-162-1.0	28	mg/Kg	70171	0.11	5.0		1	1/26/2011	2/1/2011
116006-034A	1127-162-3.0	11	mg/Kg	70171	0.11	5.0		1	1/26/2011	2/1/2011
116006-035A	1127-160-1.0	48	mg/Kg	70171	0.11	5.0		1	1/26/2011	2/1/2011
116006-036A	1127-160-2.0	11	mg/Kg	70171	0.11	5.0		1	1/26/2011	2/1/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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Advanced Technology Laboratories

Date: 4/20/2011

ANALYTICAL RESULTS

LEAD BY ICP
EPA 6010B

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	116006
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	1/26/2011 6:16:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	SRB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
116006-037A	1127-174-1.0	19	mg/Kg	70171	0.11	5.0		1	1/26/2011	2/1/2011
116006-038A	1127-174-2.0	190	mg/Kg	70171	0.11	5.0		1	1/26/2011	2/1/2011
116006-039A	1127-170-1.0	240	mg/Kg	70171	0.11	5.0		1	1/26/2011	2/1/2011
116006-040A	1127-170-2.0	170	mg/Kg	70171	0.11	5.0		1	1/26/2011	2/1/2011
116006-041A	1127-169-1.0	15	mg/Kg	70172	0.11	5.0		1	1/26/2011	2/2/2011
116006-042A	1127-169-2.0	13	mg/Kg	70172	0.11	5.0		1	1/26/2011	2/2/2011
116006-043A	1127-167-2.0	3.9	mg/Kg	70172	0.11	5.0	J	1	1/26/2011	2/2/2011
116006-044A	1127-167-4.0	17	mg/Kg	70172	0.11	5.0		1	1/26/2011	2/2/2011
116006-045A	1127-167-6.0	11	mg/Kg	70172	0.11	5.0		1	1/26/2011	2/2/2011
116006-046A	1127-168-1.0	50	mg/Kg	70172	0.11	5.0		1	1/26/2011	2/2/2011
116006-047A	1127-168-2.0	15	mg/Kg	70172	0.11	5.0		1	1/26/2011	2/2/2011
116006-048A	1127-172-1.0	48	mg/Kg	70172	0.11	5.0		1	1/26/2011	2/2/2011
116006-049A	1127-172-2.0	13	mg/Kg	70172	0.11	5.0		1	1/26/2011	2/2/2011
116006-050A	1127-140-1.0	45	mg/Kg	70172	0.11	5.0		1	1/26/2011	2/2/2011
116006-051A	1127-140-2.0	30	mg/Kg	70172	0.11	5.0		1	1/26/2011	2/2/2011
116006-052A	1127-139-1.0	37	mg/Kg	70172	0.11	5.0		1	1/26/2011	2/2/2011
116006-053A	1127-139-2.0	35	mg/Kg	70172	0.11	5.0		1	1/26/2011	2/2/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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Advanced Technology Laboratories

Date: 4/20/2011

ANALYTICAL RESULTS

LEAD BY ATOMIC ABSORPTION
WET DI/ EPA 7420

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	116006
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	1/26/2011 6:16:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	VV

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
116006-027A	1127-165-1.0	ND	mg/L	70561	0.21	0.25		1	1/26/2011	2/11/2011
116006-028A	1127-165-2.0	ND	mg/L	70561	0.21	0.25		1	1/26/2011	2/11/2011
116006-038A	1127-174-2.0	ND	mg/L	70561	0.21	0.25		1	1/26/2011	2/11/2011
116006-039A	1127-170-1.0	ND	mg/L	70561	0.21	0.25		1	1/26/2011	2/11/2011
116006-040A	1127-170-2.0	ND	mg/L	70561	0.21	0.25		1	1/26/2011	2/11/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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Advanced Technology Laboratories

Date: 4/20/2011

ANALYTICAL RESULTS

LEAD BY ATOMIC ABSORPTION (STLC)
WET/ EPA 7420

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	116006
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	1/26/2011 6:16:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	VV

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
116006-009A	1127-132-1.5-2.0	1.2	mg/L	70403	0.21	0.25		1	1/26/2011	2/8/2011
116006-019A	1127-138-1.5-2.0	1.6	mg/L	70403	0.21	0.25		1	1/26/2011	2/8/2011
116006-027A	1127-165-1.0	11	mg/L	70403	0.41	0.50		2	1/26/2011	2/8/2011
116006-028A	1127-165-2.0	9.1	mg/L	70403	0.41	0.50		2	1/26/2011	2/8/2011
116006-038A	1127-174-2.0	7.8	mg/L	70403	0.21	0.25		1	1/26/2011	2/8/2011
116006-039A	1127-170-1.0	11	mg/L	70403	0.41	0.50		2	1/26/2011	2/8/2011
116006-040A	1127-170-2.0	6.5	mg/L	70403	0.21	0.25		1	1/26/2011	2/8/2011
116006-046A	1127-168-1.0	2.6	mg/L	70403	0.21	0.25		1	1/26/2011	2/8/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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Advanced Technology Laboratories

Date: 4/20/2011

ANALYTICAL RESULTS

LEAD BY ATOMIC ABSORPTION (TCLP)
EPA 1311/ 7420

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	116006
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	1/26/2011 6:16:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	VV

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
116006-038A	1127-174-2.0	0.31	mg/L	70707	0.21	0.25		1	1/26/2011	2/15/2011
116006-039A	1127-170-1.0	0.37	mg/L	70707	0.21	0.25		1	1/26/2011	2/15/2011
116006-040A	1127-170-2.0	0.30	mg/L	70707	0.21	0.25		1	1/26/2011	2/15/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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Advanced Technology Laboratories

Date: 4/20/2011

ANALYTICAL RESULTS

pH
EPA 9045C

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	116006
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	1/26/2011 6:16:00 PM
Project No:		**Matrix:**	Soil
Analyte:	pH	**Analyst:**	CBB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
116006-038A	1127-174-2.0	7.9	pH Units	R129967	0.10	0.10		1	1/26/2011	2/15/2011
116006-039A	1127-170-1.0	7.2	pH Units	R129968	0.10	0.10		1	1/26/2011	2/15/2011
116006-040A	1127-170-2.0	7.3	pH Units	R129968	0.10	0.10		1	1/26/2011	2/15/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *20-Apr-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	1127-174-2.0
Lab Order:	116006	**Collection Date:**	1/26/2011 10:40:00 AM
Project:	State Route 10 ADL, S9500-06-04	**Matrix:**	SOIL
Lab ID:	116006-038A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B		**EPA 6010B**				
RunID: **ICP8_110215B**	QC Batch: **70696**				PrepDate:	**2/15/2011**	Analyst: **JSD**
Antimony	1.0	0.16	2.0	J	mg/Kg	1	2/15/2011 02:21 PM
Arsenic	5.3	0.20	1.0		mg/Kg	1	2/15/2011 02:21 PM
Barium	160	0.056	1.0		mg/Kg	1	2/15/2011 02:21 PM
Beryllium	ND	0.042	1.0		mg/Kg	1	2/15/2011 02:21 PM
Cadmium	6.8	0.043	1.0		mg/Kg	1	2/15/2011 02:21 PM
Chromium	20	0.13	1.0		mg/Kg	1	2/15/2011 02:21 PM
Cobalt	6.9	0.11	1.0		mg/Kg	1	2/15/2011 02:21 PM
Copper	28	0.18	2.0		mg/Kg	1	2/15/2011 02:21 PM
Molybdenum	19	0.097	1.0		mg/Kg	1	2/15/2011 02:21 PM
Nickel	31	0.11	1.0		mg/Kg	1	2/15/2011 02:21 PM
Selenium	3.3	0.28	1.0		mg/Kg	1	2/15/2011 02:21 PM
Silver	ND	0.042	1.0		mg/Kg	1	2/15/2011 02:21 PM
Thallium	ND	0.098	1.0		mg/Kg	1	2/15/2011 02:21 PM
Vanadium	41	0.088	1.0		mg/Kg	1	2/15/2011 02:21 PM
Zinc	130	0.13	1.0		mg/Kg	1	2/15/2011 02:21 PM
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 7471A				
RunID: **AA1_110215A**	QC Batch: **70695**				PrepDate:	**2/15/2011**	Analyst: **VV**
Mercury	0.080	0.0076	0.10	J	mg/Kg	1	2/15/2011 01:25 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

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Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *20-Apr-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	1127-170-1.0
Lab Order:	116006	**Collection Date:**	1/26/2011 10:50:00 AM
Project:	State Route 10 ADL, S9500-06-04	**Matrix:**	SOIL
Lab ID:	116006-039A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B		**EPA 6010B**				
RunID: **ICP8_110215B**	QC Batch: **70696**				PrepDate:	**2/15/2011**	Analyst: **JSD**
Antimony	0.75	0.16	2.0	J	mg/Kg	1	2/15/2011 02:24 PM
Arsenic	4.3	0.20	1.0		mg/Kg	1	2/15/2011 02:24 PM
Barium	170	0.056	1.0		mg/Kg	1	2/15/2011 02:24 PM
Beryllium	ND	0.042	1.0		mg/Kg	1	2/15/2011 02:24 PM
Cadmium	3.4	0.043	1.0		mg/Kg	1	2/15/2011 02:24 PM
Chromium	17	0.13	1.0		mg/Kg	1	2/15/2011 02:24 PM
Cobalt	8.2	0.11	1.0		mg/Kg	1	2/15/2011 02:24 PM
Copper	29	0.18	2.0		mg/Kg	1	2/15/2011 02:24 PM
Molybdenum	8.7	0.097	1.0		mg/Kg	1	2/15/2011 02:24 PM
Nickel	24	0.11	1.0		mg/Kg	1	2/15/2011 02:24 PM
Selenium	1.0	0.28	1.0		mg/Kg	1	2/15/2011 02:24 PM
Silver	ND	0.042	1.0		mg/Kg	1	2/15/2011 02:24 PM
Thallium	ND	0.098	1.0		mg/Kg	1	2/15/2011 02:24 PM
Vanadium	34	0.088	1.0		mg/Kg	1	2/15/2011 02:24 PM
Zinc	130	0.13	1.0		mg/Kg	1	2/15/2011 02:24 PM
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 7471A				
RunID: **AA1_110215A**	QC Batch: **70695**				PrepDate:	**2/15/2011**	Analyst: **VV**
Mercury	0.073	0.0076	0.10	J	mg/Kg	1	2/15/2011 01:27 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

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CLIENT: Geocon Consultants, Inc.
Work Order: 116006
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **MB-70696** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/15/2011** RunNo: **129987**
Client ID: **PBS** Batch ID: **70696** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/15/2011** SeqNo: **2111640**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.171	2.0									J
Arsenic	ND	1.0									
Barium	ND	1.0									
Beryllium	ND	1.0									
Cadmium	ND	1.0									
Chromium	ND	1.0									
Cobalt	ND	1.0									
Copper	ND	2.0									
Molybdenum	ND	1.0									
Nickel	ND	1.0									
Selenium	ND	1.0									
Silver	ND	1.0									
Thallium	ND	1.0									
Vanadium	ND	1.0									
Zinc	0.220	1.0									J

Sample ID: **LCS-70696** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/15/2011** RunNo: **129987**
Client ID: **LCSS** Batch ID: **70696** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/15/2011** SeqNo: **2111641**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	49.670	2.0	50.00	0.1712	99.0	80	120				
Arsenic	49.827	1.0	50.00	0	99.7	80	120				
Barium	51.901	1.0	50.00	0	104	80	120				
Beryllium	51.067	1.0	50.00	0	102	80	120				
Cadmium	49.784	1.0	50.00	0	99.6	80	120				
Chromium	47.473	1.0	50.00	0	94.9	80	120				
Cobalt	51.031	1.0	50.00	0	102	80	120				
Copper	51.387	2.0	50.00	0	103	80	120				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 116006
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **LCS-70696** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/15/2011** RunNo: **129987**
Client ID: **LCSS** Batch ID: **70696** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/15/2011** SeqNo: **2111641**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	52.935	1.0	50.00	0	106	80	120				
Nickel	50.522	1.0	50.00	0	101	80	120				
Selenium	48.054	1.0	50.00	0	96.1	80	120				
Silver	48.722	1.0	50.00	0	97.4	80	120				
Thallium	49.730	1.0	50.00	0	99.5	80	120				
Vanadium	52.583	1.0	50.00	0	105	80	120				
Zinc	50.103	1.0	50.00	0.2199	99.8	80	120				

Sample ID: **115950-007A-DUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/15/2011** RunNo: **129987**
Client ID: **ZZZZZZ** Batch ID: **70696** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/15/2011** SeqNo: **2111643**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.503	2.0						0.3335	0	20	J
Arsenic	ND	1.0						0	0	20	
Barium	87.920	1.0						92.48	5.06	20	
Beryllium	ND	1.0						0	0	20	
Cadmium	0.484	1.0						0.4796	0	20	J
Chromium	11.976	1.0						13.01	8.31	20	
Cobalt	7.806	1.0						8.123	3.97	20	
Copper	16.945	2.0						17.21	1.57	20	
Lead	119.364	1.0						115.6	3.22	20	
Molybdenum	ND	1.0						0	0	20	
Nickel	10.425	1.0						11.69	11.5	20	
Selenium	ND	1.0						0	0	20	
Silver	ND	1.0						0	0	20	
Thallium	ND	1.0						0	0	20	
Vanadium	29.441	1.0						30.04	2.02	20	
Zinc	63.084	1.0						61.20	3.03	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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CLIENT: Geocon Consultants, Inc.
Work Order: 116006
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **115950-007A-MS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/15/2011** RunNo: **129987**
Client ID: **ZZZZZZ** Batch ID: **70696** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/15/2011** SeqNo: **2111644**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	99.412	2.0	125.0	0.3335	79.3	32	105				
Arsenic	105.642	1.0	125.0	0	84.5	49	106				
Barium	205.619	1.0	125.0	92.48	90.5	31	133				
Beryllium	108.341	1.0	125.0	0	86.7	56	106				
Cadmium	104.937	1.0	125.0	0.4796	83.6	51	103				
Chromium	115.561	1.0	125.0	13.01	82.0	45	114				
Cobalt	115.696	1.0	125.0	8.123	86.1	52	106				
Copper	136.054	2.0	125.0	17.21	95.1	54	125				
Lead	223.864	1.0	125.0	115.6	86.6	34	126				
Molybdenum	108.027	1.0	125.0	0	86.4	54	106				
Nickel	117.827	1.0	125.0	11.69	84.9	45	111				
Selenium	105.711	1.0	125.0	0	84.6	47	104				
Silver	112.685	1.0	125.0	0	90.1	56	112				
Thallium	87.971	1.0	125.0	0	70.4	46	101				
Vanadium	142.992	1.0	125.0	30.04	90.4	54	114				
Zinc	170.373	1.0	125.0	61.20	87.3	28	125				

Sample ID: **115950-007A-MSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/15/2011** RunNo: **129987**
Client ID: **ZZZZZZ** Batch ID: **70696** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/15/2011** SeqNo: **2111645**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	95.522	2.0	125.0	0.3335	76.2	32	105	99.41	3.99	20	
Arsenic	101.141	1.0	125.0	0	80.9	49	106	105.6	4.35	20	
Barium	200.985	1.0	125.0	92.48	86.8	31	133	205.6	2.28	20	
Beryllium	103.888	1.0	125.0	0	83.1	56	106	108.3	4.20	20	
Cadmium	100.464	1.0	125.0	0.4796	80.0	51	103	104.9	4.36	20	
Chromium	111.613	1.0	125.0	13.01	78.9	45	114	115.6	3.48	20	
Cobalt	111.870	1.0	125.0	8.123	83.0	52	106	115.7	3.36	20	
Copper	131.149	2.0	125.0	17.21	91.1	54	125	136.1	3.67	20	
Lead	218.194	1.0	125.0	115.6	82.1	34	126	223.9	2.57	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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CLIENT: Geocon Consultants, Inc.
Work Order: 116006
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **115950-007A-MSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/15/2011** RunNo: **129987**
Client ID: **ZZZZZZ** Batch ID: **70696** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/15/2011** SeqNo: **2111645**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	103.377	1.0	125.0	0	82.7	54	106	108.0	4.40	20	
Nickel	113.534	1.0	125.0	11.69	81.5	45	111	117.8	3.71	20	
Selenium	101.064	1.0	125.0	0	80.9	47	104	105.7	4.49	20	
Silver	108.446	1.0	125.0	0	86.8	56	112	112.7	3.83	20	
Thallium	83.224	1.0	125.0	0	66.6	46	101	87.97	5.55	20	
Vanadium	140.087	1.0	125.0	30.04	88.0	54	114	143.0	2.05	20	
Zinc	168.089	1.0	125.0	61.20	85.5	28	125	170.4	1.35	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 116006
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **MB-70170A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/1/2011** RunNo: **129415**
Client ID: **PBS** Batch ID: **70170** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/1/2011** SeqNo: **2099441**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-70170** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/1/2011** RunNo: **129415**
Client ID: **LCSS** Batch ID: **70170** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/1/2011** SeqNo: **2099442**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	256.279	5.0	250.0	0	103	80	120				

Sample ID: **116006-010A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/1/2011** RunNo: **129415**
Client ID: **1127-132-4.5-5.0** Batch ID: **70170** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/1/2011** SeqNo: **2099453**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	29.660	5.0						20.58	36.2	20	R

Sample ID: **116006-010A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/1/2011** RunNo: **129415**
Client ID: **1127-132-4.5-5.0** Batch ID: **70170** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/1/2011** SeqNo: **2099454**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	243.531	5.0	250.0	20.58	89.2	34	126				

Sample ID: **MB-70170B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/1/2011** RunNo: **129415**
Client ID: **PBS** Batch ID: **70170** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/1/2011** SeqNo: **2099455**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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CLIENT: Geocon Consultants, Inc.
Work Order: 116006
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **116006-020-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/1/2011** RunNo: **129415**
Client ID: **ZZZZZZ** Batch ID: **70170** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/1/2011** SeqNo: **2099466**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	9.056	5.0						8.976	0.886	20	

Sample ID: **116006-020A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/1/2011** RunNo: **129415**
Client ID: **1127-138-3.5-4.0** Batch ID: **70170** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/1/2011** SeqNo: **2099467**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	227.579	5.0	250.0	8.976	87.4	34	126				

Sample ID: **116006-020A-MSD** SampType: **MSD** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/1/2011** RunNo: **129415**
Client ID: **1127-138-3.5-4.0** Batch ID: **70170** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/1/2011** SeqNo: **2099468**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	257.659	5.0	250.0	8.976	99.5	34	126	227.6	12.4	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 116006
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **MB-70171A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/1/2011** RunNo: **129416**
Client ID: **PBS** Batch ID: **70171** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/1/2011** SeqNo: **2099497**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-70171** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/1/2011** RunNo: **129416**
Client ID: **LCSS** Batch ID: **70171** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/1/2011** SeqNo: **2099498**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	285.789	5.0	250.0	0	114	80	120				

Sample ID: **116006-030A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/1/2011** RunNo: **129416**
Client ID: **1127-166-3.0** Batch ID: **70171** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/1/2011** SeqNo: **2099509**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	13.122	5.0						17.16	26.7	20	R

Sample ID: **116006-030A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/1/2011** RunNo: **129416**
Client ID: **1127-166-3.0** Batch ID: **70171** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/1/2011** SeqNo: **2099510**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	254.509	5.0	250.0	17.16	94.9	34	126				

Sample ID: **MB-70171B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/1/2011** RunNo: **129416**
Client ID: **PBS** Batch ID: **70171** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/1/2011** SeqNo: **2099511**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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CLIENT: Geocon Consultants, Inc.
Work Order: 116006
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **116006-040A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/1/2011** RunNo: **129416**
Client ID: **1127-170-2.0** Batch ID: **70171** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/1/2011** SeqNo: **2099522**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	126.715	5.0						166.7	27.3	20	R

Sample ID: **116006-040A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/1/2011** RunNo: **129416**
Client ID: **1127-170-2.0** Batch ID: **70171** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/1/2011** SeqNo: **2099523**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	317.054	5.0	250.0	166.7	60.1	34	126				

Sample ID: **116006-040A-MSD** SampType: **MSD** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/1/2011** RunNo: **129416**
Client ID: **1127-170-2.0** Batch ID: **70171** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/1/2011** SeqNo: **2099524**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	328.832	5.0	250.0	166.7	64.8	34	126	317.1	3.65	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 116006
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **MB-70172A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/1/2011** RunNo: **129443**
Client ID: **PBS** Batch ID: **70172** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/2/2011** SeqNo: **2100119**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-70172** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/1/2011** RunNo: **129443**
Client ID: **LCSS** Batch ID: **70172** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/2/2011** SeqNo: **2100120**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	253.703	5.0	250.0	0	101	80	120				

Sample ID: **116006-050A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/1/2011** RunNo: **129443**
Client ID: **1127-140-1.0** Batch ID: **70172** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/2/2011** SeqNo: **2100131**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	58.739	5.0						44.81	26.9	20	R

Sample ID: **116006-050A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/1/2011** RunNo: **129443**
Client ID: **1127-140-1.0** Batch ID: **70172** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/2/2011** SeqNo: **2100132**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	261.965	5.0	250.0	44.81	86.9	34	126				

Sample ID: **MB-70172B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/1/2011** RunNo: **129443**
Client ID: **PBS** Batch ID: **70172** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/2/2011** SeqNo: **2100133**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 116006
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **116042-007A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/1/2011** RunNo: **129443**
Client ID: **ZZZZZZ** Batch ID: **70172** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/2/2011** SeqNo: **2100144**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.073	5.0						4.886	3.76	20	

Sample ID: **116042-007A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/1/2011** RunNo: **129443**
Client ID: **ZZZZZZ** Batch ID: **70172** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/2/2011** SeqNo: **2100145**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	235.353	5.0	250.0	4.886	92.2	34	126				

Sample ID: **116042-007A-MSD** SampType: **MSD** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/1/2011** RunNo: **129443**
Client ID: **ZZZZZZ** Batch ID: **70172** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/2/2011** SeqNo: **2100146**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	229.154	5.0	250.0	4.886	89.7	34	126	235.4	2.67	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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CLIENT: Geocon Consultants, Inc.
Work Order: 116006
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI_GEOCON

Sample ID: **MB-70561A** SampType: **MBLK** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/9/2011** RunNo: **129867**
Client ID: **PBS** Batch ID: **70561** TestNo: **WET DI/ EPA WET** Analysis Date: **2/11/2011** SeqNo: **2108786**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-70561** SampType: **LCS** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/9/2011** RunNo: **129867**
Client ID: **LCSS** Batch ID: **70561** TestNo: **WET DI/ EPA WET** Analysis Date: **2/11/2011** SeqNo: **2108787**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.000	0.25	5.000	0	100	80	120				

Sample ID: **116042-024A-DUP** SampType: **DUP** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/9/2011** RunNo: **129867**
Client ID: **ZZZZZZ** Batch ID: **70561** TestNo: **WET DI/ EPA WET** Analysis Date: **2/11/2011** SeqNo: **2108798**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25						0	0	20	

Sample ID: **116042-024A-MS** SampType: **MS** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/9/2011** RunNo: **129867**
Client ID: **ZZZZZZ** Batch ID: **70561** TestNo: **WET DI/ EPA WET** Analysis Date: **2/11/2011** SeqNo: **2108799**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.982	0.25	5.000	0	99.6	70	130				

Sample ID: **MB-70561B** SampType: **MBLK** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/9/2011** RunNo: **129867**
Client ID: **PBS** Batch ID: **70561** TestNo: **WET DI/ EPA WET** Analysis Date: **2/11/2011** SeqNo: **2108800**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 116006
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI_GEOCON

Sample ID: **116135-019A-DUP** SampType: **DUP** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/9/2011** RunNo: **129867**
Client ID: **ZZZZZZ** Batch ID: **70561** TestNo: **WET DI/ EPA WET** Analysis Date: **2/11/2011** SeqNo: **2108811**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25						0	0	20	

Sample ID: **116135-019A-MS** SampType: **MS** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/9/2011** RunNo: **129867**
Client ID: **ZZZZZZ** Batch ID: **70561** TestNo: **WET DI/ EPA WET** Analysis Date: **2/11/2011** SeqNo: **2108812**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.057	0.25	5.000	0	101	70	130				

Sample ID: **116135-019A-MSD** SampType: **MSD** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/9/2011** RunNo: **129867**
Client ID: **ZZZZZZ** Batch ID: **70561** TestNo: **WET DI/ EPA WET** Analysis Date: **2/11/2011** SeqNo: **2108813**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.098	0.25	5.000	0	102	70	130	5.057	0.818	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID: **MB-70403A** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/4/2011** RunNo: **129716**
Client ID: **PBS** Batch ID: **70403** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/8/2011** SeqNo: **2105840**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-70403** SampType: **LCS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/4/2011** RunNo: **129716**
Client ID: **LCSS** Batch ID: **70403** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/8/2011** SeqNo: **2105841**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.061	0.25	5.000	0	101	80	120				

Sample ID: **116006-046A-DUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/4/2011** RunNo: **129716**
Client ID: **1127-168-1.0** Batch ID: **70403** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/8/2011** SeqNo: **2105854**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.545	0.25						2.582	1.46	20	

Sample ID: **116006-046A-MS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/4/2011** RunNo: **129716**
Client ID: **1127-168-1.0** Batch ID: **70403** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/8/2011** SeqNo: **2105855**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.129	0.25	5.000	2.582	90.9	80	120				

Sample ID: **MB-70403B** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/4/2011** RunNo: **129716**
Client ID: **PBS** Batch ID: **70403** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/8/2011** SeqNo: **2105856**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 116006
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID: **116042-046A-DUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/4/2011** RunNo: **129716**
Client ID: **ZZZZZZ** Batch ID: **70403** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/8/2011** SeqNo: **2105867**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.691	0.25						3.696	0.140	20	

Sample ID: **116042-046A-MS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/4/2011** RunNo: **129716**
Client ID: **ZZZZZZ** Batch ID: **70403** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/8/2011** SeqNo: **2105868**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	8.770	0.50	5.000	3.696	101	80	120				

Sample ID: **116042-046A-MSD** SampType: **MSD** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/4/2011** RunNo: **129716**
Client ID: **ZZZZZZ** Batch ID: **70403** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/8/2011** SeqNo: **2105869**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	8.896	0.50	5.000	3.696	104	80	120	8.770	1.42	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 116006
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: **MB-70707A** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **129996**
Client ID: **PBS** Batch ID: **70707** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/15/2011** SeqNo: **2112017**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **MB-70685A TCLP** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **129996**
Client ID: **PBS** Batch ID: **70707** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/15/2011** SeqNo: **2112018**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-70707** SampType: **LCS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **129996**
Client ID: **LCSS** Batch ID: **70707** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/15/2011** SeqNo: **2112019**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.963	0.25	1.000	0	96.3	80	120				

Sample ID: **116042-038A-DUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **129996**
Client ID: **ZZZZZZ** Batch ID: **70707** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/15/2011** SeqNo: **2112025**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.682	0.25						0.6682	2.04	20	

Sample ID: **116042-038A-MS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **129996**
Client ID: **ZZZZZZ** Batch ID: **70707** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/15/2011** SeqNo: **2112026**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.240	0.25	2.500	0.6682	103	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: **MB-70707B** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **129996**
Client ID: **PBS** Batch ID: **70707** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/15/2011** SeqNo: **2112027**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **MB-70685B TCLP** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **129996**
Client ID: **PBS** Batch ID: **70707** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/15/2011** SeqNo: **2112028**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **116069-032A-DUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **129996**
Client ID: **ZZZZZZ** Batch ID: **70707** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/15/2011** SeqNo: **2112039**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.656	0.25						0.6450	1.68	20	

Sample ID: **116069-032A-MS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **129996**
Client ID: **ZZZZZZ** Batch ID: **70707** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/15/2011** SeqNo: **2112040**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.017	0.25	2.500	0.6450	94.9	70	130				

Sample ID: **116069-032A-MSD** SampType: **MSD** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **129996**
Client ID: **ZZZZZZ** Batch ID: **70707** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/15/2011** SeqNo: **2112041**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.039	0.25	2.500	0.6450	95.8	70	130	3.017	0.748	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 116006
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

Sample ID: **MB-70695** SampType: **MBLK** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **2/15/2011** RunNo: **129990**
Client ID: **PBS** Batch ID: **70695** TestNo: **EPA 7471A** Analysis Date: **2/15/2011** SeqNo: **2111727**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: **LCS-70695** SampType: **LCS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **2/15/2011** RunNo: **129990**
Client ID: **LCSS** Batch ID: **70695** TestNo: **EPA 7471A** Analysis Date: **2/15/2011** SeqNo: **2111728**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.825	0.10	0.8300	0	99.4	80	120				

Sample ID: **115950-007A-MS** SampType: **MS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **2/15/2011** RunNo: **129990**
Client ID: **ZZZZZZ** Batch ID: **70695** TestNo: **EPA 7471A** Analysis Date: **2/15/2011** SeqNo: **2111729**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.983	0.10	0.8300	0.04249	113	70	130				

Sample ID: **115950-007A-MSD** SampType: **MSD** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **2/15/2011** RunNo: **129990**
Client ID: **ZZZZZZ** Batch ID: **70695** TestNo: **EPA 7471A** Analysis Date: **2/15/2011** SeqNo: **2111730**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.982	0.10	0.8300	0.04249	113	70	130	0.9829	0.0679	20	

Sample ID: **115950-007A-DUP** SampType: **DUP** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **2/15/2011** RunNo: **129990**
Client ID: **ZZZZZZ** Batch ID: **70695** TestNo: **EPA 7471A** Analysis Date: **2/15/2011** SeqNo: **2111732**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.044	0.10						0.04249	0	20	J

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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CLIENT: Geocon Consultants, Inc.
Work Order: 116006
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 9045_S

Sample ID: **116006-038ADUP** SampType: **DUP** TestCode: **9045_S** Units: **pH Units** Prep Date: RunNo: **129967**
Client ID: **1127-174-2.0** Batch ID: **R129967** TestNo: **EPA 9045C** Analysis Date: **2/15/2011** SeqNo: **2111248**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.820	0.10						7.860	0.510	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Geocon Consultants, Inc.
Work Order: 116006
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 9045_S

Sample ID: **116069-022ADUP** SampType: **DUP** TestCode: **9045_S** Units: **pH Units** Prep Date: RunNo: **129968**
Client ID: **ZZZZZZ** Batch ID: **R129968** TestNo: **EPA 9045C** Analysis Date: **2/15/2011** SeqNo: **2111271**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.860	0.10						7.950	1.14	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories
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April 20, 2011

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 116007

Mike Conkle
Geocon Consultants, Inc.
3303 N. San Fernando Blvd., Suite 100
Burbank, CA 91504

TEL: (818) 841-8388
FAX: (818) 841-1704

RE: State Route 10 ADL, S9500-06-04

Attention: Mike Conkle

Enclosed are the results for sample(s) received on January 26, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an addendum report. Please incorporate with documentation previously submitted.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

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Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Geocon Consultants, Inc.
Project: State Route 10 ADL, S9500-06-04
Lab Order: 116007

CASE NARRATIVE

Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" Flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

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Advanced Technology Laboratories

Date: 4/20/2011

ANALYTICAL RESULTS

LEAD BY ICP
EPA 6010B

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	116007
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	1/26/2011 6:16:00 PM
Project No:		**Matrix:**	Water
Analyte:	Lead	**Analyst:**	JSD

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
116007-001A	EB-100-7	ND	mg/L	70135	0.0046	0.25		1	1/26/2011	1/31/2011
116007-002A	EB-100-8	ND	mg/L	70135	0.0046	0.25		1	1/26/2011	1/31/2011
116007-003A	EB-100-9	ND	mg/L	70135	0.0046	0.25		1	1/26/2011	1/31/2011
116007-004A	EB-100-10	ND	mg/L	70135	0.0046	0.25		1	1/26/2011	1/31/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Geocon Consultants, Inc.
Work Order: 116007
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WPB

Sample ID: **MB-70135** SampType: **MBLK** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **1/31/2011** RunNo: **129353**
Client ID: **PBW** Batch ID: **70135** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **1/31/2011** SeqNo: **2098007**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-70135** SampType: **LCS** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **1/31/2011** RunNo: **129353**
Client ID: **LCSW** Batch ID: **70135** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **1/31/2011** SeqNo: **2098008**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.038	0.25	1.000	0	104	85	115				

Sample ID: **116007-004A-DUP** SampType: **DUP** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **1/31/2011** RunNo: **129353**
Client ID: **EB-100-10** Batch ID: **70135** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **1/31/2011** SeqNo: **2098013**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25						0	0	20	

Sample ID: **116007-004A-MS** SampType: **MS** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **1/31/2011** RunNo: **129353**
Client ID: **EB-100-10** Batch ID: **70135** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **1/31/2011** SeqNo: **2098014**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.508	0.25	2.500	0	100	80	118				

Sample ID: **116007-004A-MSD** SampType: **MSD** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **1/31/2011** RunNo: **129353**
Client ID: **EB-100-10** Batch ID: **70135** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **1/31/2011** SeqNo: **2098015**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.375	0.25	2.500	0	95.0	80	118	2.508	5.46	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 *Tel: 562. 989.4045* *Fax: 562.989.4040*

April 20, 2011

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 116042

Mike Conkle
Geocon Consultants, Inc.
3303 N. San Fernando Blvd., Suite 100
Burbank, CA 91504

TEL: (818) 841-8388
FAX: (818) 841-1704

RE: State Route 10 ADL, S9500-06-04

Attention: Mike Conkle

Enclosed are the results for sample(s) received on January 27, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an addendum report. Please incorporate with documentation previously submitted.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

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Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" Flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Analytical Comments for Method 6010

RPD for Duplicate (DUP) is outside criteria for samples 116006-050ADUP, 116042-017ADUP, 116042-027ADUP and 116042-046ADUP; however, the Laboratory Control Sample (LCS) validated the analytical batch.

Analytical Comments for Method 7420

Dilution was necessary for sample 116042-038A, due to sample matrix.

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Advanced Technology Laboratories

Date: 4/20/2011

ANALYTICAL RESULTS

LEAD BY ICP
EPA 6010B

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	116042
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	1/27/2011 7:00:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	SRB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
116042-001A	1127-148-0.5-1	3.8	mg/Kg	70172	0.11	5.0	J	1	1/27/2011	2/2/2011
116042-002A	1127-148-1.5-2.0	3.6	mg/Kg	70172	0.11	5.0	J	1	1/27/2011	2/2/2011
116042-003A	1127-148-3.5-4.0	7.1	mg/Kg	70172	0.11	5.0		1	1/27/2011	2/2/2011
116042-004A	1127-150-1.5-2.0	6.6	mg/Kg	70172	0.11	5.0		1	1/27/2011	2/2/2011
116042-005A	1127-150-3.5-4.0	16	mg/Kg	70172	0.11	5.0		1	1/27/2011	2/2/2011
116042-006A	1127-149-1.5-2.0	3.9	mg/Kg	70172	0.11	5.0	J	1	1/27/2011	2/2/2011
116042-007A	1127-149-3.5-4.0	4.9	mg/Kg	70172	0.11	5.0	J	1	1/27/2011	2/2/2011
116042-008A	1127-149-5.5-6.0	4.9	mg/Kg	70173	0.11	5.0	J	1	1/27/2011	2/2/2011
116042-009A	1127-147-1.5-2.0	27	mg/Kg	70173	0.11	5.0		1	1/27/2011	2/2/2011
116042-010A	1127-147-3.5-4.0	4.8	mg/Kg	70173	0.11	5.0	J	1	1/27/2011	2/2/2011
116042-011A	1127-147-5.5-6.0	6.8	mg/Kg	70173	0.11	5.0		1	1/27/2011	2/2/2011
116042-012A	1127-145-0.5-1.0	15	mg/Kg	70173	0.11	5.0		1	1/27/2011	2/2/2011
116042-013A	1127-145-1.5-2.0	11	mg/Kg	70173	0.11	5.0		1	1/27/2011	2/2/2011
116042-014A	1127-152-1.5-2.0	43	mg/Kg	70173	0.11	5.0		1	1/27/2011	2/2/2011
116042-015A	1127-152-3.5-4.0	6.0	mg/Kg	70173	0.11	5.0		1	1/27/2011	2/2/2011
116042-016A	1127-152-5.5-6.0	7.5	mg/Kg	70173	0.11	5.0		1	1/27/2011	2/2/2011
116042-017A	1127-152-7.5-8.0	6.0	mg/Kg	70173	0.11	5.0		1	1/27/2011	2/2/2011
116042-018A	1127-175-0.5-1.0	110	mg/Kg	70173	0.11	5.0		1	1/27/2011	2/2/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

Date: 4/20/2011

ANALYTICAL RESULTS

LEAD BY ICP
EPA 6010B

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	116042
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	1/27/2011 7:00:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	SRB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
116042-019A	1127-175-1.5-2.0	64	mg/Kg	70173	0.11	5.0		1	1/27/2011	2/2/2011
116042-020A	1127-175-2.5-3.0	40	mg/Kg	70173	0.11	5.0		1	1/27/2011	2/2/2011
116042-021A	1127-142-1.0	47	mg/Kg	70173	0.11	5.0		1	1/27/2011	2/2/2011
116042-022A	1127-142-2.0	38	mg/Kg	70173	0.11	5.0		1	1/27/2011	2/2/2011
116042-023A	1127-144-1.0	47	mg/Kg	70173	0.11	5.0		1	1/27/2011	2/2/2011
116042-024A	1127-144-2.0	76	mg/Kg	70173	0.11	5.0		1	1/27/2011	2/2/2011
116042-025A	1127-146-1.0	21	mg/Kg	70173	0.11	5.0		1	1/27/2011	2/2/2011
116042-026A	1127-146-2.0	14	mg/Kg	70173	0.11	5.0		1	1/27/2011	2/2/2011
116042-027A	1127-141-1.0	7.4	mg/Kg	70173	0.11	5.0		1	1/27/2011	2/2/2011
116042-028A	1127-141-2.0	23	mg/Kg	70174	0.11	5.0		1	1/27/2011	2/2/2011
116042-029A	1127-143-1.0	23	mg/Kg	70174	0.11	5.0		1	1/27/2011	2/2/2011
116042-030A	1127-143-2.0	22	mg/Kg	70174	0.11	5.0		1	1/27/2011	2/2/2011
116042-031A	1127-154-1.0	27	mg/Kg	70174	0.11	5.0		1	1/27/2011	2/2/2011
116042-032A	1127-154-2.0	8.2	mg/Kg	70174	0.11	5.0		1	1/27/2011	2/2/2011
116042-033A	1127-176-1.0	42	mg/Kg	70174	0.11	5.0		1	1/27/2011	2/2/2011
116042-034A	1127-176-2.0	5.4	mg/Kg	70174	0.11	5.0		1	1/27/2011	2/2/2011
116042-035A	1127-176-3.0	41	mg/Kg	70174	0.11	5.0		1	1/27/2011	2/2/2011
116042-036A	1127-178-1.0	93	mg/Kg	70174	0.11	5.0		1	1/27/2011	2/2/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

Date: 4/20/2011

ANALYTICAL RESULTS

LEAD BY ICP
EPA 6010B

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	116042
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	1/27/2011 7:00:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	SRB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
116042-037A	1127-178-2.0	36	mg/Kg	70174	0.11	5.0		1	1/27/2011	2/2/2011
116042-038A	1127-180-0.5-1.0	270	mg/Kg	70174	0.11	5.0		1	1/27/2011	2/2/2011
116042-039A	1127-180-2.0	29	mg/Kg	70174	0.11	5.0		1	1/27/2011	2/2/2011
116042-040A	1127-177-0.5-1.0	150	mg/Kg	70174	0.11	5.0		1	1/27/2011	2/2/2011
116042-041A	1127-177-1.5-2.0	42	mg/Kg	70174	0.11	5.0		1	1/27/2011	2/2/2011
116042-042A	1127-179-0.5-1.0	94	mg/Kg	70174	0.11	5.0		1	1/27/2011	2/2/2011
116042-043A	1127-181-0.5-1.0	77	mg/Kg	70174	0.11	5.0		1	1/27/2011	2/2/2011
116042-044A	1127-181-1.5-2.0	69	mg/Kg	70174	0.11	5.0		1	1/27/2011	2/2/2011
116042-045A	1127-181-2.5-3.0	14	mg/Kg	70174	0.11	5.0		1	1/27/2011	2/2/2011
116042-046A	1127-179-2.0	50	mg/Kg	70174	0.11	5.0		1	1/27/2011	2/2/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

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Advanced Technology Laboratories

Date: 4/20/2011

ANALYTICAL RESULTS

LEAD BY ATOMIC ABSORPTION
WET DI/ EPA 7420

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	116042
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	1/27/2011 7:00:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	VV

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
116042-018A	1127-175-0.5-1.0	ND	mg/L	70561	0.21	0.25		1	1/27/2011	2/11/2011
116042-024A	1127-144-2.0	ND	mg/L	70561	0.21	0.25		1	1/27/2011	2/11/2011
116042-038A	1127-180-0.5-1.0	ND	mg/L	70561	0.21	0.25		1	1/27/2011	2/11/2011
116042-040A	1127-177-0.5-1.0	ND	mg/L	70561	0.21	0.25		1	1/27/2011	2/11/2011
116042-043A	1127-181-0.5-1.0	ND	mg/L	70561	0.21	0.25		1	1/27/2011	2/11/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

Date: 4/20/2011

ANALYTICAL RESULTS

LEAD BY ATOMIC ABSORPTION (STLC)
WET/ EPA 7420

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	116042
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	1/27/2011 7:00:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	VV

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
116042-018A	1127-175-0.5-1.0	5.2	mg/L	70403	0.21	0.25		1	1/27/2011	2/8/2011
116042-019A	1127-175-1.5-2.0	2.7	mg/L	70403	0.21	0.25		1	1/27/2011	2/8/2011
116042-024A	1127-144-2.0	5.0	mg/L	70403	0.21	0.25		1	1/27/2011	2/8/2011
116042-036A	1127-178-1.0	2.0	mg/L	70403	0.21	0.25		1	1/27/2011	2/8/2011
116042-038A	1127-180-0.5-1.0	18	mg/L	70403	0.41	0.50		2	1/27/2011	2/8/2011
116042-040A	1127-177-0.5-1.0	7.8	mg/L	70403	0.21	0.25		1	1/27/2011	2/8/2011
116042-042A	1127-179-0.5-1.0	4.1	mg/L	70403	0.21	0.25		1	1/27/2011	2/8/2011
116042-043A	1127-181-0.5-1.0	5.8	mg/L	70403	0.21	0.25		1	1/27/2011	2/8/2011
116042-044A	1127-181-1.5-2.0	3.2	mg/L	70403	0.21	0.25		1	1/27/2011	2/8/2011
116042-046A	1127-179-2.0	3.7	mg/L	70403	0.21	0.25		1	1/27/2011	2/8/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

Date: 4/20/2011

ANALYTICAL RESULTS

LEAD BY ATOMIC ABSORPTION (TCLP)
EPA 1311/ 7420

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	116042
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	1/27/2011 7:00:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	VV

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
116042-038A	1127-180-0.5-1.0	0.67	mg/L	70707	0.21	0.25		1	1/27/2011	2/15/2011

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

Date: 4/20/2011

ANALYTICAL RESULTS

pH
EPA 9045C

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	116042
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	1/27/2011 7:00:00 PM
Project No:		**Matrix:**	Soil
Analyte:	pH	**Analyst:**	CBB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
116042-038A	1127-180-0.5-1.0	7.8	pH Units	R129968	0.10	0.10		1	1/27/2011	2/15/2011

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *20-Apr-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	1127-180-0.5-1.0
Lab Order:	116042	**Collection Date:**	1/27/2011 2:38:00 PM
Project:	State Route 10 ADL, S9500-06-04	**Matrix:**	SOIL
Lab ID:	116042-038A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B		**EPA 6010B**				
RunID: **ICP8_110215B**	QC Batch: **70696**				PrepDate:	**2/15/2011**	Analyst: **JSD**
Antimony	0.44	0.16	2.0	J	mg/Kg	1	2/15/2011 02:28 PM
Arsenic	ND	0.20	1.0		mg/Kg	1	2/15/2011 02:28 PM
Barium	130	0.056	1.0		mg/Kg	1	2/15/2011 02:28 PM
Beryllium	ND	0.042	1.0		mg/Kg	1	2/15/2011 02:28 PM
Cadmium	1.2	0.043	1.0		mg/Kg	1	2/15/2011 02:28 PM
Chromium	11	0.13	1.0		mg/Kg	1	2/15/2011 02:28 PM
Cobalt	5.4	0.11	1.0		mg/Kg	1	2/15/2011 02:28 PM
Copper	13	0.18	2.0		mg/Kg	1	2/15/2011 02:28 PM
Molybdenum	1.6	0.097	1.0		mg/Kg	1	2/15/2011 02:28 PM
Nickel	14	0.11	1.0		mg/Kg	1	2/15/2011 02:28 PM
Selenium	ND	0.28	1.0		mg/Kg	1	2/15/2011 02:28 PM
Silver	ND	0.042	1.0		mg/Kg	1	2/15/2011 02:28 PM
Thallium	ND	0.098	1.0		mg/Kg	1	2/15/2011 02:28 PM
Vanadium	22	0.088	1.0		mg/Kg	1	2/15/2011 02:28 PM
Zinc	100	0.13	1.0		mg/Kg	1	2/15/2011 02:28 PM
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 7471A				
RunID: **AA1_110215A**	QC Batch: **70695**				PrepDate:	**2/15/2011**	Analyst: **VV**
Mercury	0.022	0.0076	0.10	J	mg/Kg	1	2/15/2011 01:41 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Geocon Consultants, Inc.
Work Order: 116042
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **MB-70696** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/15/2011** RunNo: **129987**
Client ID: **PBS** Batch ID: **70696** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/15/2011** SeqNo: **2111640**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.171	2.0									J
Arsenic	ND	1.0									
Barium	ND	1.0									
Beryllium	ND	1.0									
Cadmium	ND	1.0									
Chromium	ND	1.0									
Cobalt	ND	1.0									
Copper	ND	2.0									
Molybdenum	ND	1.0									
Nickel	ND	1.0									
Selenium	ND	1.0									
Silver	ND	1.0									
Thallium	ND	1.0									
Vanadium	ND	1.0									
Zinc	0.220	1.0									J

Sample ID: **LCS-70696** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/15/2011** RunNo: **129987**
Client ID: **LCSS** Batch ID: **70696** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/15/2011** SeqNo: **2111641**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	49.670	2.0	50.00	0.1712	99.0	80	120				
Arsenic	49.827	1.0	50.00	0	99.7	80	120				
Barium	51.901	1.0	50.00	0	104	80	120				
Beryllium	51.067	1.0	50.00	0	102	80	120				
Cadmium	49.784	1.0	50.00	0	99.6	80	120				
Chromium	47.473	1.0	50.00	0	94.9	80	120				
Cobalt	51.031	1.0	50.00	0	102	80	120				
Copper	51.387	2.0	50.00	0	103	80	120				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 116042
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **LCS-70696** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/15/2011** RunNo: **129987**
Client ID: **LCSS** Batch ID: **70696** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/15/2011** SeqNo: **2111641**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	52.935	1.0	50.00	0	106	80	120				
Nickel	50.522	1.0	50.00	0	101	80	120				
Selenium	48.054	1.0	50.00	0	96.1	80	120				
Silver	48.722	1.0	50.00	0	97.4	80	120				
Thallium	49.730	1.0	50.00	0	99.5	80	120				
Vanadium	52.583	1.0	50.00	0	105	80	120				
Zinc	50.103	1.0	50.00	0.2199	99.8	80	120				

Sample ID: **115950-007A-DUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/15/2011** RunNo: **129987**
Client ID: **ZZZZZZ** Batch ID: **70696** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/15/2011** SeqNo: **2111643**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.503	2.0						0.3335	0	20	J
Arsenic	ND	1.0						0	0	20	
Barium	87.920	1.0						92.48	5.06	20	
Beryllium	ND	1.0						0	0	20	
Cadmium	0.484	1.0						0.4796	0	20	J
Chromium	11.976	1.0						13.01	8.31	20	
Cobalt	7.806	1.0						8.123	3.97	20	
Copper	16.945	2.0						17.21	1.57	20	
Lead	119.364	1.0						115.6	3.22	20	
Molybdenum	ND	1.0						0	0	20	
Nickel	10.425	1.0						11.69	11.5	20	
Selenium	ND	1.0						0	0	20	
Silver	ND	1.0						0	0	20	
Thallium	ND	1.0						0	0	20	
Vanadium	29.441	1.0						30.04	2.02	20	
Zinc	63.084	1.0						61.20	3.03	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 116042
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **115950-007A-MS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/15/2011** RunNo: **129987**
Client ID: **ZZZZZZ** Batch ID: **70696** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/15/2011** SeqNo: **2111644**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	99.412	2.0	125.0	0.3335	79.3	32	105				
Arsenic	105.642	1.0	125.0	0	84.5	49	106				
Barium	205.619	1.0	125.0	92.48	90.5	31	133				
Beryllium	108.341	1.0	125.0	0	86.7	56	106				
Cadmium	104.937	1.0	125.0	0.4796	83.6	51	103				
Chromium	115.561	1.0	125.0	13.01	82.0	45	114				
Cobalt	115.696	1.0	125.0	8.123	86.1	52	106				
Copper	136.054	2.0	125.0	17.21	95.1	54	125				
Lead	223.864	1.0	125.0	115.6	86.6	34	126				
Molybdenum	108.027	1.0	125.0	0	86.4	54	106				
Nickel	117.827	1.0	125.0	11.69	84.9	45	111				
Selenium	105.711	1.0	125.0	0	84.6	47	104				
Silver	112.685	1.0	125.0	0	90.1	56	112				
Thallium	87.971	1.0	125.0	0	70.4	46	101				
Vanadium	142.992	1.0	125.0	30.04	90.4	54	114				
Zinc	170.373	1.0	125.0	61.20	87.3	28	125				

Sample ID: **115950-007A-MSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/15/2011** RunNo: **129987**
Client ID: **ZZZZZZ** Batch ID: **70696** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/15/2011** SeqNo: **2111645**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	95.522	2.0	125.0	0.3335	76.2	32	105	99.41	3.99	20	
Arsenic	101.141	1.0	125.0	0	80.9	49	106	105.6	4.35	20	
Barium	200.985	1.0	125.0	92.48	86.8	31	133	205.6	2.28	20	
Beryllium	103.888	1.0	125.0	0	83.1	56	106	108.3	4.20	20	
Cadmium	100.464	1.0	125.0	0.4796	80.0	51	103	104.9	4.36	20	
Chromium	111.613	1.0	125.0	13.01	78.9	45	114	115.6	3.48	20	
Cobalt	111.870	1.0	125.0	8.123	83.0	52	106	115.7	3.36	20	
Copper	131.149	2.0	125.0	17.21	91.1	54	125	136.1	3.67	20	
Lead	218.194	1.0	125.0	115.6	82.1	34	126	223.9	2.57	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Geocon Consultants, Inc.
Work Order: 116042
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **115950-007A-MSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/15/2011** RunNo: **129987**
Client ID: **ZZZZZZ** Batch ID: **70696** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/15/2011** SeqNo: **2111645**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	103.377	1.0	125.0	0	82.7	54	106	108.0	4.40	20	
Nickel	113.534	1.0	125.0	11.69	81.5	45	111	117.8	3.71	20	
Selenium	101.064	1.0	125.0	0	80.9	47	104	105.7	4.49	20	
Silver	108.446	1.0	125.0	0	86.8	56	112	112.7	3.83	20	
Thallium	83.224	1.0	125.0	0	66.6	46	101	87.97	5.55	20	
Vanadium	140.087	1.0	125.0	30.04	88.0	54	114	143.0	2.05	20	
Zinc	168.089	1.0	125.0	61.20	85.5	28	125	170.4	1.35	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 116042
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **MB-70172A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/1/2011** RunNo: **129443**
Client ID: **PBS** Batch ID: **70172** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/2/2011** SeqNo: **2100119**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-70172** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/1/2011** RunNo: **129443**
Client ID: **LCSS** Batch ID: **70172** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/2/2011** SeqNo: **2100120**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	253.703	5.0	250.0	0	101	80	120				

Sample ID: **116006-050A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/1/2011** RunNo: **129443**
Client ID: **ZZZZZZ** Batch ID: **70172** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/2/2011** SeqNo: **2100131**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	58.739	5.0						44.81	26.9	20	R

Sample ID: **116006-050A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/1/2011** RunNo: **129443**
Client ID: **ZZZZZZ** Batch ID: **70172** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/2/2011** SeqNo: **2100132**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	261.965	5.0	250.0	44.81	86.9	34	126				

Sample ID: **MB-70172B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/1/2011** RunNo: **129443**
Client ID: **PBS** Batch ID: **70172** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/2/2011** SeqNo: **2100133**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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CLIENT: Geocon Consultants, Inc.
Work Order: 116042
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **116042-007A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/1/2011** RunNo: **129443**
Client ID: **1127-149-3.5-4.0** Batch ID: **70172** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/2/2011** SeqNo: **2100144**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.073	5.0						4.886	3.76	20	

Sample ID: **116042-007A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/1/2011** RunNo: **129443**
Client ID: **1127-149-3.5-4.0** Batch ID: **70172** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/2/2011** SeqNo: **2100145**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	235.353	5.0	250.0	4.886	92.2	34	126				

Sample ID: **116042-007A-MSD** SampType: **MSD** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/1/2011** RunNo: **129443**
Client ID: **1127-149-3.5-4.0** Batch ID: **70172** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/2/2011** SeqNo: **2100146**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	229.154	5.0	250.0	4.886	89.7	34	126	235.4	2.67	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 116042
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **MB-70173A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/1/2011** RunNo: **129447**
Client ID: **PBS** Batch ID: **70173** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/2/2011** SeqNo: **2100292**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.153	5.0									J

Sample ID: **LCS-70173** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/1/2011** RunNo: **129447**
Client ID: **LCSS** Batch ID: **70173** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/2/2011** SeqNo: **2100293**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	258.600	5.0	250.0	0.1525	103	80	120				

Sample ID: **116042-017A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/1/2011** RunNo: **129447**
Client ID: **1127-152-7.5-8.0** Batch ID: **70173** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/2/2011** SeqNo: **2100304**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	18.138	5.0						6.026	100	20	R

Sample ID: **116042-017A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/1/2011** RunNo: **129447**
Client ID: **1127-152-7.5-8.0** Batch ID: **70173** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/2/2011** SeqNo: **2100305**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	203.663	5.0	250.0	6.026	79.1	34	126				

Sample ID: **MB-70173B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/1/2011** RunNo: **129447**
Client ID: **PBS** Batch ID: **70173** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/2/2011** SeqNo: **2100306**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.126	5.0									J

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 116042
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **116042-027A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/1/2011** RunNo: **129447**
Client ID: **1127-141-1.0** Batch ID: **70173** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/2/2011** SeqNo: **2100317**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	15.042	5.0						7.412	68.0	20	R

Sample ID: **116042-027A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/1/2011** RunNo: **129447**
Client ID: **1127-141-1.0** Batch ID: **70173** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/2/2011** SeqNo: **2100318**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	226.140	5.0	250.0	7.412	87.5	34	126				

Sample ID: **116042-027A-MSD** SampType: **MSD** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/1/2011** RunNo: **129447**
Client ID: **1127-141-1.0** Batch ID: **70173** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/2/2011** SeqNo: **2100319**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	228.232	5.0	250.0	7.412	88.3	34	126	226.1	0.921	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 116042
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **MB-70174A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/31/2011** RunNo: **129448**
Client ID: **PBS** Batch ID: **70174** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/2/2011** SeqNo: **2100222**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.173	5.0									J

Sample ID: **LCS-70174** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/31/2011** RunNo: **129448**
Client ID: **LCSS** Batch ID: **70174** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/2/2011** SeqNo: **2100223**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	256.598	5.0	250.0	0.1732	103	80	120				

Sample ID: **116042-037A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/31/2011** RunNo: **129448**
Client ID: **1127-178-2.0** Batch ID: **70174** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/2/2011** SeqNo: **2100234**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	38.438	5.0						36.16	6.11	20	

Sample ID: **116042-037A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/31/2011** RunNo: **129448**
Client ID: **1127-178-2.0** Batch ID: **70174** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/2/2011** SeqNo: **2100235**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	244.303	5.0	250.0	36.16	83.3	34	126				

Sample ID: **MB-70174B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/31/2011** RunNo: **129448**
Client ID: **PBS** Batch ID: **70174** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/2/2011** SeqNo: **2100236**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 116042
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **116042-046A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/31/2011** RunNo: **129448**
Client ID: **1127-179-2.0** Batch ID: **70174** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/2/2011** SeqNo: **2100246**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	63.286	5.0						49.71	24.0	20	R

Sample ID: **116042-046A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/31/2011** RunNo: **129448**
Client ID: **1127-179-2.0** Batch ID: **70174** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/2/2011** SeqNo: **2100247**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	287.582	5.0	250.0	49.71	95.1	34	126				

Sample ID: **116042-046A-MSD** SampType: **MSD** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/31/2011** RunNo: **129448**
Client ID: **1127-179-2.0** Batch ID: **70174** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/2/2011** SeqNo: **2100248**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	274.155	5.0	250.0	49.71	89.8	34	126	287.6	4.78	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 116042
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI_GEOCON

Sample ID: **MB-70561A** SampType: **MBLK** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/9/2011** RunNo: **129867**
Client ID: **PBS** Batch ID: **70561** TestNo: **WET DI/ EPA WET** Analysis Date: **2/11/2011** SeqNo: **2108786**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-70561** SampType: **LCS** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/9/2011** RunNo: **129867**
Client ID: **LCSS** Batch ID: **70561** TestNo: **WET DI/ EPA WET** Analysis Date: **2/11/2011** SeqNo: **2108787**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.000	0.25	5.000	0	100	80	120				

Sample ID: **116042-024A-DUP** SampType: **DUP** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/9/2011** RunNo: **129867**
Client ID: **1127-144-2.0** Batch ID: **70561** TestNo: **WET DI/ EPA WET** Analysis Date: **2/11/2011** SeqNo: **2108798**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25						0	0	20	

Sample ID: **116042-024A-MS** SampType: **MS** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/9/2011** RunNo: **129867**
Client ID: **1127-144-2.0** Batch ID: **70561** TestNo: **WET DI/ EPA WET** Analysis Date: **2/11/2011** SeqNo: **2108799**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.982	0.25	5.000	0	99.6	70	130				

Sample ID: **MB-70561B** SampType: **MBLK** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/9/2011** RunNo: **129867**
Client ID: **PBS** Batch ID: **70561** TestNo: **WET DI/ EPA WET** Analysis Date: **2/11/2011** SeqNo: **2108800**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 116042
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI_GEOCON

Sample ID: **116135-019A-DUP** SampType: **DUP** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/9/2011** RunNo: **129867**
Client ID: **ZZZZZZ** Batch ID: **70561** TestNo: **WET DI/ EPA WET** Analysis Date: **2/11/2011** SeqNo: **2108811**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25						0	0	20	

Sample ID: **116135-019A-MS** SampType: **MS** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/9/2011** RunNo: **129867**
Client ID: **ZZZZZZ** Batch ID: **70561** TestNo: **WET DI/ EPA WET** Analysis Date: **2/11/2011** SeqNo: **2108812**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.057	0.25	5.000	0	101	70	130				

Sample ID: **116135-019A-MSD** SampType: **MSD** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/9/2011** RunNo: **129867**
Client ID: **ZZZZZZ** Batch ID: **70561** TestNo: **WET DI/ EPA WET** Analysis Date: **2/11/2011** SeqNo: **2108813**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.098	0.25	5.000	0	102	70	130	5.057	0.818	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 116042
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID: **MB-70403A** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/4/2011** RunNo: **129716**
Client ID: **PBS** Batch ID: **70403** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/8/2011** SeqNo: **2105840**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-70403** SampType: **LCS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/4/2011** RunNo: **129716**
Client ID: **LCSS** Batch ID: **70403** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/8/2011** SeqNo: **2105841**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.061	0.25	5.000	0	101	80	120				

Sample ID: **116006-046A-DUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/4/2011** RunNo: **129716**
Client ID: **ZZZZZZ** Batch ID: **70403** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/8/2011** SeqNo: **2105854**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.545	0.25						2.582	1.46	20	

Sample ID: **116006-046A-MS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/4/2011** RunNo: **129716**
Client ID: **ZZZZZZ** Batch ID: **70403** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/8/2011** SeqNo: **2105855**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.129	0.25	5.000	2.582	90.9	80	120				

Sample ID: **MB-70403B** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/4/2011** RunNo: **129716**
Client ID: **PBS** Batch ID: **70403** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/8/2011** SeqNo: **2105856**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 116042
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID: **116042-046A-DUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/4/2011** RunNo: **129716**
Client ID: **1127-179-2.0** Batch ID: **70403** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/8/2011** SeqNo: **2105867**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.691	0.25						3.696	0.140	20	

Sample ID: **116042-046A-MS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/4/2011** RunNo: **129716**
Client ID: **1127-179-2.0** Batch ID: **70403** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/8/2011** SeqNo: **2105868**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	8.770	0.50	5.000	3.696	101	80	120				

Sample ID: **116042-046A-MSD** SampType: **MSD** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/4/2011** RunNo: **129716**
Client ID: **1127-179-2.0** Batch ID: **70403** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/8/2011** SeqNo: **2105869**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	8.896	0.50	5.000	3.696	104	80	120	8.770	1.42	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 116042
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: **MB-70707A**	SampType: **MBLK**	TestCode: **7420_TC**	Units: **mg/L**	Prep Date: **2/15/2011**	RunNo: **129996**
Client ID: **PBS**	Batch ID: **70707**	TestNo: **EPA 1311/ 74**	**EPA3010A**	Analysis Date: **2/15/2011**	SeqNo: **2112017**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **MB-70685A TCLP**	SampType: **MBLK**	TestCode: **7420_TC**	Units: **mg/L**	Prep Date: **2/15/2011**	RunNo: **129996**
Client ID: **PBS**	Batch ID: **70707**	TestNo: **EPA 1311/ 74**	**EPA3010A**	Analysis Date: **2/15/2011**	SeqNo: **2112018**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-70707**	SampType: **LCS**	TestCode: **7420_TC**	Units: **mg/L**	Prep Date: **2/15/2011**	RunNo: **129996**
Client ID: **LCSS**	Batch ID: **70707**	TestNo: **EPA 1311/ 74**	**EPA3010A**	Analysis Date: **2/15/2011**	SeqNo: **2112019**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.963	0.25	1.000	0	96.3	80	120				

Sample ID: **116042-038A-DUP**	SampType: **DUP**	TestCode: **7420_TC**	Units: **mg/L**	Prep Date: **2/15/2011**	RunNo: **129996**
Client ID: **1127-180-0.5-1.0**	Batch ID: **70707**	TestNo: **EPA 1311/ 74**	**EPA3010A**	Analysis Date: **2/15/2011**	SeqNo: **2112025**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.682	0.25						0.6682	2.04	20	

Sample ID: **116042-038A-MS**	SampType: **MS**	TestCode: **7420_TC**	Units: **mg/L**	Prep Date: **2/15/2011**	RunNo: **129996**
Client ID: **1127-180-0.5-1.0**	Batch ID: **70707**	TestNo: **EPA 1311/ 74**	**EPA3010A**	Analysis Date: **2/15/2011**	SeqNo: **2112026**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.240	0.25	2.500	0.6682	103	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Geocon Consultants, Inc.
Work Order: 116042
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: **MB-70707B** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **129996**
Client ID: **PBS** Batch ID: **70707** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/15/2011** SeqNo: **2112027**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **MB-70685B TCLP** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **129996**
Client ID: **PBS** Batch ID: **70707** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/15/2011** SeqNo: **2112028**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **116069-032A-DUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **129996**
Client ID: **ZZZZZZ** Batch ID: **70707** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/15/2011** SeqNo: **2112039**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.656	0.25						0.6450	1.68	20	

Sample ID: **116069-032A-MS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **129996**
Client ID: **ZZZZZZ** Batch ID: **70707** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/15/2011** SeqNo: **2112040**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.017	0.25	2.500	0.6450	94.9	70	130				

Sample ID: **116069-032A-MSD** SampType: **MSD** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **129996**
Client ID: **ZZZZZZ** Batch ID: **70707** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/15/2011** SeqNo: **2112041**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.039	0.25	2.500	0.6450	95.8	70	130	3.017	0.748	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Geocon Consultants, Inc.
Work Order: 116042
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

Sample ID: **MB-70695** SampType: **MBLK** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **2/15/2011** RunNo: **129990**
Client ID: **PBS** Batch ID: **70695** TestNo: **EPA 7471A** Analysis Date: **2/15/2011** SeqNo: **2111727**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: **LCS-70695** SampType: **LCS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **2/15/2011** RunNo: **129990**
Client ID: **LCSS** Batch ID: **70695** TestNo: **EPA 7471A** Analysis Date: **2/15/2011** SeqNo: **2111728**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.825	0.10	0.8300	0	99.4	80	120				

Sample ID: **115950-007A-MS** SampType: **MS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **2/15/2011** RunNo: **129990**
Client ID: **ZZZZZZ** Batch ID: **70695** TestNo: **EPA 7471A** Analysis Date: **2/15/2011** SeqNo: **2111729**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.983	0.10	0.8300	0.04249	113	70	130				

Sample ID: **115950-007A-MSD** SampType: **MSD** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **2/15/2011** RunNo: **129990**
Client ID: **ZZZZZZ** Batch ID: **70695** TestNo: **EPA 7471A** Analysis Date: **2/15/2011** SeqNo: **2111730**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.982	0.10	0.8300	0.04249	113	70	130	0.9829	0.0679	20	

Sample ID: **115950-007A-DUP** SampType: **DUP** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **2/15/2011** RunNo: **129990**
Client ID: **ZZZZZZ** Batch ID: **70695** TestNo: **EPA 7471A** Analysis Date: **2/15/2011** SeqNo: **2111732**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.044	0.10						0.04249	0	20	J

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 116042
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 9045_S

Sample ID: **116069-022ADUP** SampType: **DUP** TestCode: **9045_S** Units: **pH Units** Prep Date: RunNo: **129968**
Client ID: **ZZZZZZ** Batch ID: **R129968** TestNo: **EPA 9045C** Analysis Date: **2/15/2011** SeqNo: **2111271**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.860	0.10						7.950	1.14	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

April 20, 2011

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 116043

Mike Conkle
Geocon Consultants, Inc.
3303 N. San Fernando Blvd., Suite 100
Burbank, CA 91504

TEL: (818) 841-8388
FAX: (818) 841-1704

RE: State Route 10 ADL, S9500-06-04

Attention: Mike Conkle

Enclosed are the results for sample(s) received on January 27, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an addendum report. Please incorporate with documentation previously submitted.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Geocon Consultants, Inc.
Project: State Route 10 ADL, S9500-06-04
Lab Order: 116043

CASE NARRATIVE

Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" Flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Advanced Technology Laboratories
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Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *20-Apr-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	EB-100-11
Lab Order:	116043	**Collection Date:**	1/27/2011 8:12:00 AM
Project:	State Route 10 ADL, S9500-06-04	**Matrix:**	WATER
Lab ID:	116043-001A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3010A			**EPA 6010B**			
RunID: **ICP10_110204B**	QC Batch: **70366**				PrepDate:	**2/3/2011**	Analyst: **JSD**
Lead	ND	0.0046	0.25		mg/L	1	2/4/2011 09:16 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *20-Apr-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	EB-100-12
Lab Order:	116043	**Collection Date:**	1/27/2011 2:54:00 PM
Project:	State Route 10 ADL, S9500-06-04	**Matrix:**	WATER
Lab ID:	116043-002A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3010A			**EPA 6010B**			
RunID: **ICP10_110204B**	QC Batch: **70366**				PrepDate:	**2/3/2011**	Analyst: **JSD**
Lead	ND	0.0046	0.25		mg/L	1	2/4/2011 09:18 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *20-Apr-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	EB-100-13
Lab Order:	116043	**Collection Date:**	1/27/2011 8:10:00 AM
Project:	State Route 10 ADL, S9500-06-04	**Matrix:**	WATER
Lab ID:	116043-003A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3010A			**EPA 6010B**			
RunID: **ICP10_110204B**	QC Batch: **70366**				PrepDate:	**2/3/2011**	Analyst: **JSD**
Lead	ND	0.0046	0.25		mg/L	1	2/4/2011 09:20 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Geocon Consultants, Inc.
Work Order: 116043
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WPB

Sample ID: **MB-70366** SampType: **MBLK** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **2/3/2011** RunNo: **129585**
Client ID: **PBW** Batch ID: **70366** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **2/4/2011** SeqNo: **2103095**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-70366** SampType: **LCS** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **2/3/2011** RunNo: **129585**
Client ID: **LCSW** Batch ID: **70366** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **2/4/2011** SeqNo: **2103096**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.000	0.25	1.000	0	100	85	115				

Sample ID: **116070-003A-DUP** SampType: **DUP** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **2/3/2011** RunNo: **129585**
Client ID: **ZZZZZZ** Batch ID: **70366** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **2/4/2011** SeqNo: **2103103**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25						0	0	20	

Sample ID: **116070-003A-MS** SampType: **MS** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **2/3/2011** RunNo: **129585**
Client ID: **ZZZZZZ** Batch ID: **70366** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **2/4/2011** SeqNo: **2103104**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.483	0.25	2.500	0	99.3	80	118				

Sample ID: **116070-003A-MSD** SampType: **MSD** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **2/3/2011** RunNo: **129585**
Client ID: **ZZZZZZ** Batch ID: **70366** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **2/4/2011** SeqNo: **2103105**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.489	0.25	2.500	0	99.6	80	118	2.483	0.231	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 *Tel: 562. 989.4045* *Fax: 562.989.4040*

April 20, 2011

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Mike Conkle
Geocon Consultants, Inc.
3303 N. San Fernando Blvd., Suite 100
Burbank, CA 91504

TEL: (818) 841-8388
FAX: (818) 841-1704

Workorder No.: 116069

RE: State Route 10 ADL, S9500-06-04

Attention: Mike Conkle

Enclosed are the results for sample(s) received on January 28, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an addendum report. Please incorporate with documentation previously submitted.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

Advanced Technology Laboratories
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Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" Flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Analytical Comments for Method 6010

RPD for Matrix Spike (MS)/Matrix Spike Duplicate (MSD) is outside criteria for sample 116069-020AMSD; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Analytical Comments for Method 7420

Dilution was necessary for samples 116069-007A, 116069-008A, 116069-009A, 116069-013A, 116069-014A, 116069-017A, 116069-018A, 116069-019A, 116069-021A, 116069-022A, 116069-027A, 116069-029A, 116069-030A, 116069-031A, 116069-032A, 116069-033A, 116069-034A, 116069-035A and 116069-036A, due to sample matrix.

Matrix Spike (MS) and /or Matrix Spike Duplicate (MSD) are/is outside recovery criteria for sample 116069-036AMS; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

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Advanced Technology Laboratories

Date: 4/20/2011

ANALYTICAL RESULTS

LEAD BY ICP
EPA 6010B

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	116069
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	1/28/2011 8:05:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	JSD

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
116069-001A	1127-182-0.5-1.0	26	mg/Kg	70274	0.11	5.0		1	1/28/2011	2/3/2011
116069-002A	1127-182-1.5-2.0	9.4	mg/Kg	70274	0.11	5.0		1	1/28/2011	2/3/2011
116069-003A	1127-182-2.5-3.0	9.5	mg/Kg	70274	0.11	5.0		1	1/28/2011	2/3/2011
116069-004A	1127-179-1.5-2.0	16	mg/Kg	70274	0.11	5.0		1	1/28/2011	2/3/2011
116069-005A	1127-191-0.5-1.0	38	mg/Kg	70274	0.11	5.0		1	1/28/2011	2/3/2011
116069-006A	1127-191-1.5-2.0	63	mg/Kg	70274	0.11	5.0		1	1/28/2011	2/3/2011
116069-007A	1127-192-0.5-1.0	270	mg/Kg	70274	0.11	5.0		1	1/28/2011	2/3/2011
116069-008A	1127-192-1.5-2.0	150	mg/Kg	70274	0.11	5.0		1	1/28/2011	2/3/2011
116069-009A	1127-192-2.5-3.0	200	mg/Kg	70274	0.11	5.0		1	1/28/2011	2/3/2011
116069-010A	1127-193-0.5-1.0	110	mg/Kg	70274	0.11	5.0		1	1/28/2011	2/3/2011
116069-011A	1127-193-1.5-2.0	37	mg/Kg	70274	0.11	5.0		1	1/28/2011	2/3/2011
116069-012A	1127-193-2.5-3.0	110	mg/Kg	70274	0.11	5.0		1	1/28/2011	2/3/2011
116069-013A	1127-194-0.5-1.0	260	mg/Kg	70274	0.11	5.0		1	1/28/2011	2/3/2011
116069-014A	1127-194-1.5-2.0	100	mg/Kg	70274	0.11	5.0		1	1/28/2011	2/3/2011
116069-015A	1127-185-0.5-1.0	62	mg/Kg	70274	0.11	5.0		1	1/28/2011	2/3/2011
116069-016A	1127-185-1.5-2.0	74	mg/Kg	70274	0.11	5.0		1	1/28/2011	2/3/2011
116069-017A	1127-185-2.5-3.0	160	mg/Kg	70274	0.11	5.0		1	1/28/2011	2/3/2011
116069-018A	1127-186-0.5-1.0	180	mg/Kg	70274	0.11	5.0		1	1/28/2011	2/3/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

Date: 4/20/2011

ANALYTICAL RESULTS

LEAD BY ICP
EPA 6010B

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	116069
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	1/28/2011 8:05:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	JSD

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
116069-019A	1127-187-0.5-1.0	230	mg/Kg	70274	0.11	5.0		1	1/28/2011	2/3/2011
116069-020A	1127-186-1.5-2.0	41	mg/Kg	70274	0.11	5.0		1	1/28/2011	2/3/2011
116069-021A	1127-187-1.5-2.0	290	mg/Kg	70277	0.11	5.0		1	1/27/2011	2/3/2011
116069-022A	1127-187-2.5-3.0	270	mg/Kg	70277	0.11	5.0		1	1/27/2011	2/3/2011
116069-023A	1127-184-1.0	86	mg/Kg	70277	0.11	5.0		1	1/28/2011	2/3/2011
116069-024A	1127-184-2.0	8.2	mg/Kg	70277	0.11	5.0		1	1/28/2011	2/3/2011
116069-025A	1127-183-1.0	18	mg/Kg	70277	0.11	5.0		1	1/28/2011	2/3/2011
116069-026A	1127-183-2.0	7.1	mg/Kg	70277	0.11	5.0		1	1/28/2011	2/3/2011
116069-027A	1127-196-1.0	160	mg/Kg	70277	0.11	5.0		1	1/28/2011	2/3/2011
116069-028A	1127-196-2.0	45	mg/Kg	70277	0.11	5.0		1	1/28/2011	2/3/2011
116069-029A	1127-195-1.0	370	mg/Kg	70277	0.11	5.0		1	1/28/2011	2/3/2011
116069-030A	1127-195-2.0	270	mg/Kg	70277	0.11	5.0		1	1/28/2011	2/3/2011
116069-031A	1127-188-1.0	320	mg/Kg	70277	0.11	5.0		1	1/28/2011	2/3/2011
116069-032A	1127-188-2.0	300	mg/Kg	70277	0.11	5.0		1	1/28/2011	2/3/2011
116069-033A	1127-189-1.0	210	mg/Kg	70277	0.11	5.0		1	1/28/2011	2/3/2011
116069-034A	1127-189-2.0	430	mg/Kg	70277	0.11	5.0		1	1/28/2011	2/3/2011
116069-035A	1127-189-3.0	300	mg/Kg	70277	0.11	5.0		1	1/28/2011	2/3/2011
116069-036A	1127-190-1.0	590	mg/Kg	70277	0.11	5.0		1	1/28/2011	2/3/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

Date: 4/20/2011

ANALYTICAL RESULTS

LEAD BY ICP
EPA 6010B

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	116069
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	1/28/2011 8:05:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	JSD

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
116069-037A	1127-190-2.0	45	mg/Kg	70277	0.11	5.0		1	1/28/2011	2/3/2011

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

Date: 4/20/2011

ANALYTICAL RESULTS

LEAD BY ATOMIC ABSORPTION
WET DI/ EPA 7420

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	116069
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	1/28/2011 8:05:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	VV

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
116069-007A	1127-192-0.5-1.0	ND	mg/L	70712	0.21	0.25		1	1/28/2011	2/17/2011
116069-008A	1127-192-1.5-2.0	ND	mg/L	70712	0.21	0.25		1	1/28/2011	2/17/2011
116069-009A	1127-192-2.5-3.0	ND	mg/L	70712	0.21	0.25		1	1/28/2011	2/17/2011
116069-010A	1127-193-0.5-1.0	ND	mg/L	70712	0.21	0.25		1	1/28/2011	2/17/2011
116069-013A	1127-194-0.5-1.0	ND	mg/L	70712	0.21	0.25		1	1/28/2011	2/17/2011
116069-014A	1127-194-1.5-2.0	ND	mg/L	70712	0.21	0.25		1	1/28/2011	2/17/2011
116069-016A	1127-185-1.5-2.0	ND	mg/L	70712	0.21	0.25		1	1/28/2011	2/17/2011
116069-017A	1127-185-2.5-3.0	ND	mg/L	70712	0.21	0.25		1	1/28/2011	2/17/2011
116069-018A	1127-186-0.5-1.0	ND	mg/L	70712	0.21	0.25		1	1/28/2011	2/17/2011
116069-019A	1127-187-0.5-1.0	ND	mg/L	70712	0.21	0.25		1	1/28/2011	2/17/2011
116069-021A	1127-187-1.5-2.0	ND	mg/L	70712	0.21	0.25		1	1/27/2011	2/17/2011
116069-022A	1127-187-2.5-3.0	ND	mg/L	70712	0.21	0.25		1	1/27/2011	2/17/2011
116069-023A	1127-184-1.0	ND	mg/L	70712	0.21	0.25		1	1/28/2011	2/17/2011
116069-027A	1127-196-1.0	ND	mg/L	70712	0.21	0.25		1	1/28/2011	2/17/2011
116069-029A	1127-195-1.0	ND	mg/L	70712	0.21	0.25		1	1/28/2011	2/17/2011
116069-030A	1127-195-2.0	ND	mg/L	70712	0.21	0.25		1	1/28/2011	2/17/2011
116069-031A	1127-188-1.0	ND	mg/L	70712	0.21	0.25		1	1/28/2011	2/17/2011
116069-032A	1127-188-2.0	ND	mg/L	70712	0.21	0.25		1	1/28/2011	2/17/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

Date: 4/20/2011

ANALYTICAL RESULTS

LEAD BY ATOMIC ABSORPTION
WET DI/ EPA 7420

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	116069
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	1/28/2011 8:05:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	VV

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
116069-033A	1127-189-1.0	ND	mg/L	70712	0.21	0.25		1	1/28/2011	2/17/2011
116069-034A	1127-189-2.0	ND	mg/L	70712	0.21	0.25		1	1/28/2011	2/17/2011
116069-035A	1127-189-3.0	ND	mg/L	70713	0.21	0.25		1	1/28/2011	2/17/2011
116069-036A	1127-190-1.0	ND	mg/L	70713	0.21	0.25		1	1/28/2011	2/17/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

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Advanced Technology Laboratories

Date: 4/20/2011

ANALYTICAL RESULTS

LEAD BY ATOMIC ABSORPTION (STLC)
WET/ EPA 7420

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	116069
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	1/28/2011 8:05:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	VV

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
116069-006A	1127-191-1.5-2.0	4.9	mg/L	70501	0.21	0.25		1	1/28/2011	2/10/2011
116069-007A	1127-192-0.5-1.0	15	mg/L	70501	0.41	0.50		2	1/28/2011	2/10/2011
116069-008A	1127-192-1.5-2.0	11	mg/L	70501	0.41	0.50		2	1/28/2011	2/10/2011
116069-009A	1127-192-2.5-3.0	12	mg/L	70501	0.41	0.50		2	1/28/2011	2/10/2011
116069-010A	1127-193-0.5-1.0	6.5	mg/L	70501	0.21	0.25		1	1/28/2011	2/10/2011
116069-012A	1127-193-2.5-3.0	4.9	mg/L	70501	0.21	0.25		1	1/28/2011	2/10/2011
116069-013A	1127-194-0.5-1.0	20	mg/L	70501	0.83	1.0		4	1/28/2011	2/10/2011
116069-014A	1127-194-1.5-2.0	9.6	mg/L	70501	0.41	0.50		2	1/28/2011	2/10/2011
116069-015A	1127-185-0.5-1.0	4.2	mg/L	70501	0.21	0.25		1	1/28/2011	2/10/2011
116069-016A	1127-185-1.5-2.0	6.5	mg/L	70501	0.21	0.25		1	1/28/2011	2/10/2011
116069-017A	1127-185-2.5-3.0	11	mg/L	70501	0.41	0.50		2	1/28/2011	2/10/2011
116069-018A	1127-186-0.5-1.0	13	mg/L	70501	0.41	0.50		2	1/28/2011	2/10/2011
116069-019A	1127-187-0.5-1.0	14	mg/L	70501	0.41	0.50		2	1/28/2011	2/10/2011
116069-021A	1127-187-1.5-2.0	21	mg/L	70501	0.83	1.0		4	1/27/2011	2/10/2011
116069-022A	1127-187-2.5-3.0	17	mg/L	70501	0.41	0.50		2	1/27/2011	2/10/2011
116069-023A	1127-184-1.0	8.2	mg/L	70501	0.21	0.25		1	1/28/2011	2/10/2011
116069-027A	1127-196-1.0	9.5	mg/L	70501	0.41	0.50		2	1/28/2011	2/10/2011
116069-029A	1127-195-1.0	25	mg/L	70502	0.83	1.0		4	1/28/2011	2/10/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

Date: 4/20/2011

ANALYTICAL RESULTS

LEAD BY ATOMIC ABSORPTION (STLC)
WET/ EPA 7420

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	116069
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	1/28/2011 8:05:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	VV

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
116069-030A	1127-195-2.0	15	mg/L	70502	0.41	0.50		2	1/28/2011	2/10/2011
116069-031A	1127-188-1.0	26	mg/L	70502	1.0	1.2		5	1/28/2011	2/10/2011
116069-032A	1127-188-2.0	12	mg/L	70502	0.41	0.50		2	1/28/2011	2/10/2011
116069-033A	1127-189-1.0	13	mg/L	70502	0.41	0.50		2	1/28/2011	2/10/2011
116069-034A	1127-189-2.0	20	mg/L	70502	0.83	1.0		4	1/28/2011	2/10/2011
116069-035A	1127-189-3.0	11	mg/L	70502	0.41	0.50		2	1/28/2011	2/10/2011
116069-036A	1127-190-1.0	57	mg/L	70502	2.1	2.5		10	1/28/2011	2/10/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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Date: 4/20/2011

ANALYTICAL RESULTS

LEAD BY ATOMIC ABSORPTION (STLC)
WET/ EPA 7420

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	116069
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	1/28/2011 8:05:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	admin

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
116069-006A	1127-191-1.5-2.0	4.9	mg/L	70501	0.21	0.25		1	1/28/2011	2/10/2011
116069-007A	1127-192-0.5-1.0	15	mg/L	70501	0.41	0.50		2	1/28/2011	2/10/2011
116069-008A	1127-192-1.5-2.0	11	mg/L	70501	0.41	0.50		2	1/28/2011	2/10/2011
116069-009A	1127-192-2.5-3.0	12	mg/L	70501	0.41	0.50		2	1/28/2011	2/10/2011
116069-010A	1127-193-0.5-1.0	6.5	mg/L	70501	0.21	0.25		1	1/28/2011	2/10/2011
116069-012A	1127-193-2.5-3.0	4.9	mg/L	70501	0.21	0.25		1	1/28/2011	2/10/2011
116069-013A	1127-194-0.5-1.0	20	mg/L	70501	0.83	1.0		4	1/28/2011	2/10/2011
116069-014A	1127-194-1.5-2.0	9.6	mg/L	70501	0.41	0.50		2	1/28/2011	2/10/2011
116069-015A	1127-185-0.5-1.0	4.2	mg/L	70501	0.21	0.25		1	1/28/2011	2/10/2011
116069-016A	1127-185-1.5-2.0	6.5	mg/L	70501	0.21	0.25		1	1/28/2011	2/10/2011
116069-017A	1127-185-2.5-3.0	11	mg/L	70501	0.41	0.50		2	1/28/2011	2/10/2011
116069-018A	1127-186-0.5-1.0	13	mg/L	70501	0.41	0.50		2	1/28/2011	2/10/2011
116069-019A	1127-187-0.5-1.0	14	mg/L	70501	0.41	0.50		2	1/28/2011	2/10/2011
116069-021A	1127-187-1.5-2.0	21	mg/L	70501	0.83	1.0		4	1/27/2011	2/10/2011
116069-022A	1127-187-2.5-3.0	17	mg/L	70501	0.41	0.50		2	1/27/2011	2/10/2011
116069-023A	1127-184-1.0	8.2	mg/L	70501	0.21	0.25		1	1/28/2011	2/10/2011
116069-027A	1127-196-1.0	9.5	mg/L	70501	0.41	0.50		2	1/28/2011	2/10/2011
116069-029A	1127-195-1.0	25	mg/L	70502	0.83	1.0		4	1/28/2011	2/10/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

Date: 4/20/2011

ANALYTICAL RESULTS

LEAD BY ATOMIC ABSORPTION (STLC)
WET/ EPA 7420

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	116069
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	1/28/2011 8:05:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	admin

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
116069-030A	1127-195-2.0	15	mg/L	70502	0.41	0.50		2	1/28/2011	2/10/2011
116069-031A	1127-188-1.0	26	mg/L	70502	1.0	1.2		5	1/28/2011	2/10/2011
116069-032A	1127-188-2.0	12	mg/L	70502	0.41	0.50		2	1/28/2011	2/10/2011
116069-033A	1127-189-1.0	13	mg/L	70502	0.41	0.50		2	1/28/2011	2/10/2011
116069-034A	1127-189-2.0	20	mg/L	70502	0.83	1.0		4	1/28/2011	2/10/2011
116069-035A	1127-189-3.0	11	mg/L	70502	0.41	0.50		2	1/28/2011	2/10/2011
116069-036A	1127-190-1.0	57	mg/L	70502	2.1	2.5		10	1/28/2011	2/10/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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Date: 4/20/2011

ANALYTICAL RESULTS

LEAD BY ATOMIC ABSORPTION (TCLP)
EPA 1311/ 7420

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	116069
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	1/28/2011 8:05:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	VV

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
116069-007A	1127-192-0.5-1.0	0.57	mg/L	70707	0.21	0.25		1	1/28/2011	2/15/2011
116069-009A	1127-192-2.5-3.0	0.40	mg/L	70707	0.21	0.25		1	1/28/2011	2/15/2011
116069-013A	1127-194-0.5-1.0	0.61	mg/L	70707	0.21	0.25		1	1/28/2011	2/15/2011
116069-019A	1127-187-0.5-1.0	0.50	mg/L	70707	0.21	0.25		1	1/28/2011	2/15/2011
116069-021A	1127-187-1.5-2.0	0.68	mg/L	70707	0.21	0.25		1	1/27/2011	2/15/2011
116069-022A	1127-187-2.5-3.0	0.48	mg/L	70707	0.21	0.25		1	1/27/2011	2/15/2011
116069-029A	1127-195-1.0	1.4	mg/L	70707	0.21	0.25		1	1/28/2011	2/15/2011
116069-030A	1127-195-2.0	0.77	mg/L	70707	0.21	0.25		1	1/28/2011	2/15/2011
116069-031A	1127-188-1.0	0.66	mg/L	70707	0.21	0.25		1	1/28/2011	2/15/2011
116069-032A	1127-188-2.0	0.65	mg/L	70707	0.21	0.25		1	1/28/2011	2/15/2011
116069-034A	1127-189-2.0	0.79	mg/L	70708	0.21	0.25		1	1/28/2011	2/15/2011
116069-035A	1127-189-3.0	0.39	mg/L	70708	0.21	0.25		1	1/28/2011	2/15/2011
116069-036A	1127-190-1.0	2.6	mg/L	70708	0.21	0.25		1	1/28/2011	2/15/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

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Advanced Technology Laboratories

Date: 4/20/2011

ANALYTICAL RESULTS

pH
EPA 9045C

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	116069
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	1/28/2011 8:05:00 PM
Project No:		**Matrix:**	Soil
Analyte:	pH	**Analyst:**	CBB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
116069-007A	1127-192-0.5-1.0	7.2	pH Units	R129968	0.10	0.10		1	1/28/2011	2/15/2011
116069-009A	1127-192-2.5-3.0	7.6	pH Units	R130063	0.10	0.10		1	1/28/2011	2/17/2011
116069-013A	1127-194-0.5-1.0	7.8	pH Units	R130063	0.10	0.10		1	1/28/2011	2/17/2011
116069-019A	1127-187-0.5-1.0	8.1	pH Units	R130063	0.10	0.10		1	1/28/2011	2/17/2011
116069-021A	1127-187-1.5-2.0	8.0	pH Units	R129968	0.10	0.10		1	1/27/2011	2/15/2011
116069-022A	1127-187-2.5-3.0	8.0	pH Units	R129968	0.10	0.10		1	1/27/2011	2/15/2011
116069-029A	1127-195-1.0	7.8	pH Units	R130063	0.10	0.10		1	1/28/2011	2/17/2011
116069-030A	1127-195-2.0	7.8	pH Units	R130063	0.10	0.10		1	1/28/2011	2/17/2011
116069-031A	1127-188-1.0	7.9	pH Units	R130063	0.10	0.10		1	1/28/2011	2/17/2011
116069-032A	1127-188-2.0	7.9	pH Units	R130063	0.10	0.10		1	1/28/2011	2/17/2011
116069-034A	1127-189-2.0	8.1	pH Units	R130063	0.10	0.10		1	1/28/2011	2/17/2011
116069-035A	1127-189-3.0	8.0	pH Units	R130063	0.10	0.10		1	1/28/2011	2/17/2011
116069-036A	1127-190-1.0	7.7	pH Units	R130063	0.10	0.10		1	1/28/2011	2/17/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *20-Apr-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	1127-195-1.0
Lab Order:	116069	**Collection Date:**	1/28/2011 10:13:00 AM
Project:	State Route 10 ADL, S9500-06-04	**Matrix:**	SOIL
Lab ID:	116069-029A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B		**EPA 6010B**				
RunID: **ICP8_110215B**	QC Batch: **70696**				PrepDate:	**2/15/2011**	Analyst: **JSD**
Antimony	1.2	0.16	2.0	J	mg/Kg	1	2/15/2011 02:31 PM
Arsenic	1.2	0.20	1.0		mg/Kg	1	2/15/2011 02:31 PM
Barium	110	0.056	1.0		mg/Kg	1	2/15/2011 02:31 PM
Beryllium	ND	0.042	1.0		mg/Kg	1	2/15/2011 02:31 PM
Cadmium	1.3	0.043	1.0		mg/Kg	1	2/15/2011 02:31 PM
Chromium	39	0.13	1.0		mg/Kg	1	2/15/2011 02:31 PM
Cobalt	5.9	0.11	1.0		mg/Kg	1	2/15/2011 02:31 PM
Copper	17	0.18	2.0		mg/Kg	1	2/15/2011 02:31 PM
Molybdenum	1.7	0.097	1.0		mg/Kg	1	2/15/2011 02:31 PM
Nickel	13	0.11	1.0		mg/Kg	1	2/15/2011 02:31 PM
Selenium	ND	0.28	1.0		mg/Kg	1	2/15/2011 02:31 PM
Silver	ND	0.042	1.0		mg/Kg	1	2/15/2011 02:31 PM
Thallium	ND	0.098	1.0		mg/Kg	1	2/15/2011 02:31 PM
Vanadium	19	0.088	1.0		mg/Kg	1	2/15/2011 02:31 PM
Zinc	120	0.13	1.0		mg/Kg	1	2/15/2011 02:31 PM
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 7471A				
RunID: **AA1_110217B**	QC Batch: **70746**				PrepDate:	**2/16/2011**	Analyst: **VV**
Mercury	0.037	0.0076	0.10	J	mg/Kg	1	2/17/2011 10:46 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *20-Apr-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	1127-195-2.0
Lab Order:	116069	**Collection Date:**	1/28/2011 10:37:00 AM
Project:	State Route 10 ADL, S9500-06-04	**Matrix:**	SOIL
Lab ID:	116069-030A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B		**EPA 6010B**				
RunID: **ICP8_110215B**	QC Batch: **70696**				PrepDate:	**2/15/2011**	Analyst: **JSD**
Antimony	0.51	0.16	2.0	J	mg/Kg	1	2/15/2011 02:41 PM
Arsenic	2.3	0.20	1.0		mg/Kg	1	2/15/2011 02:41 PM
Barium	120	0.056	1.0		mg/Kg	1	2/15/2011 02:41 PM
Beryllium	ND	0.042	1.0		mg/Kg	1	2/15/2011 02:41 PM
Cadmium	1.2	0.043	1.0		mg/Kg	1	2/15/2011 02:41 PM
Chromium	14	0.13	1.0		mg/Kg	1	2/15/2011 02:41 PM
Cobalt	8.5	0.11	1.0		mg/Kg	1	2/15/2011 02:41 PM
Copper	14	0.18	2.0		mg/Kg	1	2/15/2011 02:41 PM
Molybdenum	1.4	0.097	1.0		mg/Kg	1	2/15/2011 02:41 PM
Nickel	17	0.11	1.0		mg/Kg	1	2/15/2011 02:41 PM
Selenium	ND	0.28	1.0		mg/Kg	1	2/15/2011 02:41 PM
Silver	ND	0.042	1.0		mg/Kg	1	2/15/2011 02:41 PM
Thallium	ND	0.098	1.0		mg/Kg	1	2/15/2011 02:41 PM
Vanadium	18	0.088	1.0		mg/Kg	1	2/15/2011 02:41 PM
Zinc	98	0.13	1.0		mg/Kg	1	2/15/2011 02:41 PM
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 7471A				
RunID: **AA1_110217B**	QC Batch: **70746**				PrepDate:	**2/16/2011**	Analyst: **VV**
Mercury	0.050	0.0076	0.10	J	mg/Kg	1	2/17/2011 10:50 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *20-Apr-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	1127-189-2.0
Lab Order:	116069	**Collection Date:**	1/28/2011 12:52:00 PM
Project:	State Route 10 ADL, S9500-06-04	**Matrix:**	SOIL
Lab ID:	116069-034A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B		**EPA 6010B**				
RunID: **ICP8_110215B**	QC Batch: **70696**				PrepDate:	**2/15/2011**	Analyst: **JSD**
Antimony	0.91	0.16	2.0	J	mg/Kg	1	2/15/2011 02:44 PM
Arsenic	6.9	0.20	1.0		mg/Kg	1	2/15/2011 02:44 PM
Barium	150	0.056	1.0		mg/Kg	1	2/15/2011 02:44 PM
Beryllium	ND	0.042	1.0		mg/Kg	1	2/15/2011 02:44 PM
Cadmium	3.8	0.043	1.0		mg/Kg	1	2/15/2011 02:44 PM
Chromium	18	0.13	1.0		mg/Kg	1	2/15/2011 02:44 PM
Cobalt	6.6	0.11	1.0		mg/Kg	1	2/15/2011 02:44 PM
Copper	32	0.18	2.0		mg/Kg	1	2/15/2011 02:44 PM
Molybdenum	7.0	0.097	1.0		mg/Kg	1	2/15/2011 02:44 PM
Nickel	31	0.11	1.0		mg/Kg	1	2/15/2011 02:44 PM
Selenium	ND	0.28	1.0		mg/Kg	1	2/15/2011 02:44 PM
Silver	ND	0.042	1.0		mg/Kg	1	2/15/2011 02:44 PM
Thallium	ND	0.098	1.0		mg/Kg	1	2/15/2011 02:44 PM
Vanadium	65	0.088	1.0		mg/Kg	1	2/15/2011 02:44 PM
Zinc	130	0.13	1.0		mg/Kg	1	2/15/2011 02:44 PM
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 7471A				
RunID: **AA1_110217B**	QC Batch: **70746**				PrepDate:	**2/16/2011**	Analyst: **VV**
Mercury	0.047	0.0076	0.10	J	mg/Kg	1	2/17/2011 10:56 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *20-Apr-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	1127-190-1.0
Lab Order:	116069	**Collection Date:**	1/28/2011 1:07:00 PM
Project:	State Route 10 ADL, S9500-06-04	**Matrix:**	SOIL
Lab ID:	116069-036A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B		**EPA 6010B**				
RunID: **ICP8_110215B**	QC Batch: **70696**				PrepDate:	**2/15/2011**	Analyst: **JSD**
Antimony	1.3	0.16	2.0	J	mg/Kg	1	2/15/2011 02:47 PM
Arsenic	2.7	0.20	1.0		mg/Kg	1	2/15/2011 02:47 PM
Barium	120	0.056	1.0		mg/Kg	1	2/15/2011 02:47 PM
Beryllium	ND	0.042	1.0		mg/Kg	1	2/15/2011 02:47 PM
Cadmium	1.7	0.043	1.0		mg/Kg	1	2/15/2011 02:47 PM
Chromium	20	0.13	1.0		mg/Kg	1	2/15/2011 02:47 PM
Cobalt	7.4	0.11	1.0		mg/Kg	1	2/15/2011 02:47 PM
Copper	46	0.18	2.0		mg/Kg	1	2/15/2011 02:47 PM
Molybdenum	11	0.097	1.0		mg/Kg	1	2/15/2011 02:47 PM
Nickel	22	0.11	1.0		mg/Kg	1	2/15/2011 02:47 PM
Selenium	ND	0.28	1.0		mg/Kg	1	2/15/2011 02:47 PM
Silver	ND	0.042	1.0		mg/Kg	1	2/15/2011 02:47 PM
Thallium	ND	0.098	1.0		mg/Kg	1	2/15/2011 02:47 PM
Vanadium	24	0.088	1.0		mg/Kg	1	2/15/2011 02:47 PM
Zinc	360	0.13	1.0		mg/Kg	1	2/15/2011 02:47 PM
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 7471A				
RunID: **AA1_110217B**	QC Batch: **70746**				PrepDate:	**2/16/2011**	Analyst: **VV**
Mercury	0.11	0.0076	0.10		mg/Kg	1	2/17/2011 10:58 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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CLIENT: Geocon Consultants, Inc.
Work Order: 116069
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **MB-70696** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/15/2011** RunNo: **129987**
Client ID: **PBS** Batch ID: **70696** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/15/2011** SeqNo: **2111640**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.171	2.0									J
Arsenic	ND	1.0									
Barium	ND	1.0									
Beryllium	ND	1.0									
Cadmium	ND	1.0									
Chromium	ND	1.0									
Cobalt	ND	1.0									
Copper	ND	2.0									
Molybdenum	ND	1.0									
Nickel	ND	1.0									
Selenium	ND	1.0									
Silver	ND	1.0									
Thallium	ND	1.0									
Vanadium	ND	1.0									
Zinc	0.220	1.0									J

Sample ID: **LCS-70696** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/15/2011** RunNo: **129987**
Client ID: **LCSS** Batch ID: **70696** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/15/2011** SeqNo: **2111641**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	49.670	2.0	50.00	0.1712	99.0	80	120				
Arsenic	49.827	1.0	50.00	0	99.7	80	120				
Barium	51.901	1.0	50.00	0	104	80	120				
Beryllium	51.067	1.0	50.00	0	102	80	120				
Cadmium	49.784	1.0	50.00	0	99.6	80	120				
Chromium	47.473	1.0	50.00	0	94.9	80	120				
Cobalt	51.031	1.0	50.00	0	102	80	120				
Copper	51.387	2.0	50.00	0	103	80	120				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 116069
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **LCS-70696** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/15/2011** RunNo: **129987**
Client ID: **LCSS** Batch ID: **70696** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/15/2011** SeqNo: **2111641**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	52.935	1.0	50.00	0	106	80	120				
Nickel	50.522	1.0	50.00	0	101	80	120				
Selenium	48.054	1.0	50.00	0	96.1	80	120				
Silver	48.722	1.0	50.00	0	97.4	80	120				
Thallium	49.730	1.0	50.00	0	99.5	80	120				
Vanadium	52.583	1.0	50.00	0	105	80	120				
Zinc	50.103	1.0	50.00	0.2199	99.8	80	120				

Sample ID: **115950-007A-DUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/15/2011** RunNo: **129987**
Client ID: **ZZZZZZ** Batch ID: **70696** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/15/2011** SeqNo: **2111643**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.503	2.0						0.3335	0	20	J
Arsenic	ND	1.0						0	0	20	
Barium	87.920	1.0						92.48	5.06	20	
Beryllium	ND	1.0						0	0	20	
Cadmium	0.484	1.0						0.4796	0	20	J
Chromium	11.976	1.0						13.01	8.31	20	
Cobalt	7.806	1.0						8.123	3.97	20	
Copper	16.945	2.0						17.21	1.57	20	
Lead	119.364	1.0						115.6	3.22	20	
Molybdenum	ND	1.0						0	0	20	
Nickel	10.425	1.0						11.69	11.5	20	
Selenium	ND	1.0						0	0	20	
Silver	ND	1.0						0	0	20	
Thallium	ND	1.0						0	0	20	
Vanadium	29.441	1.0						30.04	2.02	20	
Zinc	63.084	1.0						61.20	3.03	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 116069
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **115950-007A-MS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/15/2011** RunNo: **129987**
Client ID: **ZZZZZZ** Batch ID: **70696** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/15/2011** SeqNo: **2111644**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	99.412	2.0	125.0	0.3335	79.3	32	105				
Arsenic	105.642	1.0	125.0	0	84.5	49	106				
Barium	205.619	1.0	125.0	92.48	90.5	31	133				
Beryllium	108.341	1.0	125.0	0	86.7	56	106				
Cadmium	104.937	1.0	125.0	0.4796	83.6	51	103				
Chromium	115.561	1.0	125.0	13.01	82.0	45	114				
Cobalt	115.696	1.0	125.0	8.123	86.1	52	106				
Copper	136.054	2.0	125.0	17.21	95.1	54	125				
Lead	223.864	1.0	125.0	115.6	86.6	34	126				
Molybdenum	108.027	1.0	125.0	0	86.4	54	106				
Nickel	117.827	1.0	125.0	11.69	84.9	45	111				
Selenium	105.711	1.0	125.0	0	84.6	47	104				
Silver	112.685	1.0	125.0	0	90.1	56	112				
Thallium	87.971	1.0	125.0	0	70.4	46	101				
Vanadium	142.992	1.0	125.0	30.04	90.4	54	114				
Zinc	170.373	1.0	125.0	61.20	87.3	28	125				

Sample ID: **115950-007A-MSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/15/2011** RunNo: **129987**
Client ID: **ZZZZZZ** Batch ID: **70696** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/15/2011** SeqNo: **2111645**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	95.522	2.0	125.0	0.3335	76.2	32	105	99.41	3.99	20	
Arsenic	101.141	1.0	125.0	0	80.9	49	106	105.6	4.35	20	
Barium	200.985	1.0	125.0	92.48	86.8	31	133	205.6	2.28	20	
Beryllium	103.888	1.0	125.0	0	83.1	56	106	108.3	4.20	20	
Cadmium	100.464	1.0	125.0	0.4796	80.0	51	103	104.9	4.36	20	
Chromium	111.613	1.0	125.0	13.01	78.9	45	114	115.6	3.48	20	
Cobalt	111.870	1.0	125.0	8.123	83.0	52	106	115.7	3.36	20	
Copper	131.149	2.0	125.0	17.21	91.1	54	125	136.1	3.67	20	
Lead	218.194	1.0	125.0	115.6	82.1	34	126	223.9	2.57	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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CLIENT: Geocon Consultants, Inc.
Work Order: 116069
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **115950-007A-MSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/15/2011** RunNo: **129987**
Client ID: **ZZZZZZ** Batch ID: **70696** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/15/2011** SeqNo: **2111645**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	103.377	1.0	125.0	0	82.7	54	106	108.0	4.40	20	
Nickel	113.534	1.0	125.0	11.69	81.5	45	111	117.8	3.71	20	
Selenium	101.064	1.0	125.0	0	80.9	47	104	105.7	4.49	20	
Silver	108.446	1.0	125.0	0	86.8	56	112	112.7	3.83	20	
Thallium	83.224	1.0	125.0	0	66.6	46	101	87.97	5.55	20	
Vanadium	140.087	1.0	125.0	30.04	88.0	54	114	143.0	2.05	20	
Zinc	168.089	1.0	125.0	61.20	85.5	28	125	170.4	1.35	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 116069
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **MB-70274A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/2/2011** RunNo: **129532**
Client ID: **PBS** Batch ID: **70274** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/3/2011** SeqNo: **2101878**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-70274** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/2/2011** RunNo: **129532**
Client ID: **LCSS** Batch ID: **70274** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/3/2011** SeqNo: **2101879**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	267.373	5.0	250.0	0	107	80	120				

Sample ID: **116069-010A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/2/2011** RunNo: **129532**
Client ID: **1127-193-0.5-1.0** Batch ID: **70274** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/3/2011** SeqNo: **2101890**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	114.523	5.0						111.1	3.03	20	

Sample ID: **116069-010A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/2/2011** RunNo: **129532**
Client ID: **1127-193-0.5-1.0** Batch ID: **70274** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/3/2011** SeqNo: **2101891**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	316.449	5.0	250.0	111.1	82.1	34	126				

Sample ID: **MB-70274B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/2/2011** RunNo: **129532**
Client ID: **PBS** Batch ID: **70274** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/3/2011** SeqNo: **2101892**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 116069
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **116069-020A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/2/2011** RunNo: **129532**
Client ID: **1127-186-1.5-2.0** Batch ID: **70274** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/3/2011** SeqNo: **2101903**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	46.513	5.0						41.07	12.4	20	

Sample ID: **116069-020A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/2/2011** RunNo: **129532**
Client ID: **1127-186-1.5-2.0** Batch ID: **70274** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/3/2011** SeqNo: **2101904**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	253.675	5.0	250.0	41.07	85.0	34	126				

Sample ID: **116069-020A-MSD** SampType: **MSD** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/2/2011** RunNo: **129532**
Client ID: **1127-186-1.5-2.0** Batch ID: **70274** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/3/2011** SeqNo: **2101905**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	178.909	5.0	250.0	41.07	55.1	34	126	253.7	34.6	20	R

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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CLIENT: Geocon Consultants, Inc.
Work Order: 116069
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **MB-70277A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/2/2011** RunNo: **129533**
Client ID: **PBS** Batch ID: **70277** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/3/2011** SeqNo: **2101916**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-70277** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/2/2011** RunNo: **129533**
Client ID: **LCSS** Batch ID: **70277** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/3/2011** SeqNo: **2101917**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	227.928	5.0	250.0	0	91.2	80	120				

Sample ID: **116069-030A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/2/2011** RunNo: **129533**
Client ID: **1127-195-2.0** Batch ID: **70277** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/3/2011** SeqNo: **2101928**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	238.400	5.0						272.9	13.5	20	

Sample ID: **116069-030A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/2/2011** RunNo: **129533**
Client ID: **1127-195-2.0** Batch ID: **70277** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/3/2011** SeqNo: **2101929**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	503.367	5.0	250.0	272.9	92.2	34	126				

Sample ID: **MB-70277B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/2/2011** RunNo: **129533**
Client ID: **PBS** Batch ID: **70277** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/3/2011** SeqNo: **2101930**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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Work Order: 116069
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ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **116069-037A** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/2/2011** RunNo: **129533**
Client ID: **1127-190-2.0** Batch ID: **70277** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/3/2011** SeqNo: **2101988**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	42.351	5.0						45.37	6.89	20	

Sample ID: **116069-037A** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/2/2011** RunNo: **129533**
Client ID: **1127-190-2.0** Batch ID: **70277** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/3/2011** SeqNo: **2101989**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	274.887	5.0	250.0	45.37	91.8	34	126				

Sample ID: **116069-037A** SampType: **MSD** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/2/2011** RunNo: **129533**
Client ID: **1127-190-2.0** Batch ID: **70277** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/3/2011** SeqNo: **2101990**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	280.561	5.0	250.0	45.37	94.1	34	126	274.9	2.04	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
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ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI_GEOCON

Sample ID: **MB-70712A** SampType: **MBLK** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **130070**
Client ID: **PBS** Batch ID: **70712** TestNo: **WET DI/ EPA WET** Analysis Date: **2/17/2011** SeqNo: **2113647**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-70712** SampType: **LCS** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **130070**
Client ID: **LCSS** Batch ID: **70712** TestNo: **WET DI/ EPA WET** Analysis Date: **2/17/2011** SeqNo: **2113648**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.923	0.25	5.000	0	98.5	80	120				

Sample ID: **116069-019A-DUP** SampType: **DUP** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **130070**
Client ID: **1127-187-0.5-1.0** Batch ID: **70712** TestNo: **WET DI/ EPA WET** Analysis Date: **2/17/2011** SeqNo: **2113659**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25						0	0	20	

Sample ID: **116069-019A-MS** SampType: **MS** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **130070**
Client ID: **1127-187-0.5-1.0** Batch ID: **70712** TestNo: **WET DI/ EPA WET** Analysis Date: **2/17/2011** SeqNo: **2113660**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.944	0.25	5.000	0	98.9	70	130				

Sample ID: **MB-70712B** SampType: **MBLK** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **130070**
Client ID: **PBS** Batch ID: **70712** TestNo: **WET DI/ EPA WET** Analysis Date: **2/17/2011** SeqNo: **2113661**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
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ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI_GEOCON

Sample ID: **116069-034A-DUP** SampType: **DUP** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **130070**
Client ID: **1127-189-2.0** Batch ID: **70712** TestNo: **WET DI/ EPA WET** Analysis Date: **2/17/2011** SeqNo: **2113672**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25						0	0	20	

Sample ID: **116069-034A-MS** SampType: **MS** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **130070**
Client ID: **1127-189-2.0** Batch ID: **70712** TestNo: **WET DI/ EPA WET** Analysis Date: **2/17/2011** SeqNo: **2113673**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.021	0.25	5.000	0	100	70	130				

Sample ID: **116069-034A-MSD** SampType: **MSD** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **130070**
Client ID: **1127-189-2.0** Batch ID: **70712** TestNo: **WET DI/ EPA WET** Analysis Date: **2/17/2011** SeqNo: **2113674**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.039	0.25	5.000	0	101	70	130	5.021	0.359	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 116069
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI_GEOCON

Sample ID: **MB-70713A** SampType: **MBLK** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **130072**
Client ID: **PBS** Batch ID: **70713** TestNo: **WET DI/ EPA WET** Analysis Date: **2/17/2011** SeqNo: **2113685**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-70713** SampType: **LCS** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **130072**
Client ID: **LCSS** Batch ID: **70713** TestNo: **WET DI/ EPA WET** Analysis Date: **2/17/2011** SeqNo: **2113686**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.849	0.25	5.000	0	97.0	80	120				

Sample ID: **116098-002A-DUP** SampType: **DUP** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **130072**
Client ID: **ZZZZZZ** Batch ID: **70713** TestNo: **WET DI/ EPA WET** Analysis Date: **2/17/2011** SeqNo: **2113690**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25						0	0	20	

Sample ID: **116098-002A-MS** SampType: **MS** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **130072**
Client ID: **ZZZZZZ** Batch ID: **70713** TestNo: **WET DI/ EPA WET** Analysis Date: **2/17/2011** SeqNo: **2113691**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.006	0.25	5.000	0	100	70	130				

Sample ID: **116098-002A-MSD** SampType: **MSD** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **130072**
Client ID: **ZZZZZZ** Batch ID: **70713** TestNo: **WET DI/ EPA WET** Analysis Date: **2/17/2011** SeqNo: **2113692**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.069	0.25	5.000	0	101	70	130	5.006	1.25	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID: **MB-70501A** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/8/2011** RunNo: **129833**
Client ID: **PBS** Batch ID: **70501** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/10/2011** SeqNo: **2108181**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-70501** SampType: **LCS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/8/2011** RunNo: **129833**
Client ID: **LCSS** Batch ID: **70501** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/10/2011** SeqNo: **2108182**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.067	0.25	5.000	0	101	80	120				

Sample ID: **116069-013A-DUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/8/2011** RunNo: **129833**
Client ID: **1127-194-0.5-1.0** Batch ID: **70501** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/10/2011** SeqNo: **2108190**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	20.209	1.0						20.14	0.344	20	

Sample ID: **116069-013A-MS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/8/2011** RunNo: **129833**
Client ID: **1127-194-0.5-1.0** Batch ID: **70501** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/10/2011** SeqNo: **2108191**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	25.707	1.0	5.000	20.14	111	80	120				

Sample ID: **MB-70501B** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/8/2011** RunNo: **129833**
Client ID: **PBS** Batch ID: **70501** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/10/2011** SeqNo: **2108192**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
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ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID: **116069-027A-DUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/8/2011** RunNo: **129833**
Client ID: **1127-196-1.0** Batch ID: **70501** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/10/2011** SeqNo: **2108203**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	9.533	0.50						9.496	0.394	20	

Sample ID: **116069-027A-MS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/8/2011** RunNo: **129833**
Client ID: **1127-196-1.0** Batch ID: **70501** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/10/2011** SeqNo: **2108204**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	14.752	1.0	5.000	9.496	105	80	120				

Sample ID: **116069-027A-MSD** SampType: **MSD** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/8/2011** RunNo: **129833**
Client ID: **1127-196-1.0** Batch ID: **70501** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/10/2011** SeqNo: **2108205**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	14.804	1.0	5.000	9.496	106	80	120	14.75	0.352	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID: **MB-70502A** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/8/2011** RunNo: **129834**
Client ID: **PBS** Batch ID: **70502** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/10/2011** SeqNo: **2108206**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-70502** SampType: **LCS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/8/2011** RunNo: **129834**
Client ID: **LCSS** Batch ID: **70502** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/10/2011** SeqNo: **2108207**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.107	0.25	5.000	0	102	80	120				

Sample ID: **116069-036A-DUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/8/2011** RunNo: **129834**
Client ID: **1127-190-1.0** Batch ID: **70502** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/10/2011** SeqNo: **2108216**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	56.336	2.5						57.41	1.89	20	

Sample ID: **116069-036A-MS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/8/2011** RunNo: **129834**
Client ID: **1127-190-1.0** Batch ID: **70502** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/10/2011** SeqNo: **2108217**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	61.144	2.5	5.000	57.41	74.7	80	120				S

Sample ID: **116069-036A-MSD** SampType: **MSD** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/8/2011** RunNo: **129834**
Client ID: **1127-190-1.0** Batch ID: **70502** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/10/2011** SeqNo: **2108218**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	61.899	2.5	5.000	57.41	89.8	80	120	61.14	1.23	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID: **MB-70713A** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **130066**
Client ID: **PBS** Batch ID: **70713** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/17/2011** SeqNo: **2113592**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-70713** SampType: **LCS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **130066**
Client ID: **LCSS** Batch ID: **70713** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/17/2011** SeqNo: **2113593**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.952	0.25	5.000	0	99.0	80	120				

Sample ID: **115975-045A-DUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **130066**
Client ID: **ZZZZZZ** Batch ID: **70713** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/17/2011** SeqNo: **2113599**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	6.859	0.25						6.913	0.785	20	

Sample ID: **115975-045A-MS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **130066**
Client ID: **ZZZZZZ** Batch ID: **70713** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/17/2011** SeqNo: **2113600**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	11.922	0.50	5.000	6.913	100	80	120				

Sample ID: **115975-045A-MSD** SampType: **MSD** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **130066**
Client ID: **ZZZZZZ** Batch ID: **70713** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/17/2011** SeqNo: **2113601**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	11.970	0.50	5.000	6.913	101	80	120	11.92	0.397	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: **MB-70707A** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **129996**
Client ID: **PBS** Batch ID: **70707** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/15/2011** SeqNo: **2112017**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **MB-70685A TCLP** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **129996**
Client ID: **PBS** Batch ID: **70707** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/15/2011** SeqNo: **2112018**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-70707** SampType: **LCS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **129996**
Client ID: **LCSS** Batch ID: **70707** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/15/2011** SeqNo: **2112019**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.963	0.25	1.000	0	96.3	80	120				

Sample ID: **116042-038A-DUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **129996**
Client ID: **ZZZZZZ** Batch ID: **70707** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/15/2011** SeqNo: **2112025**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.682	0.25						0.6682	2.04	20	

Sample ID: **116042-038A-MS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **129996**
Client ID: **ZZZZZZ** Batch ID: **70707** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/15/2011** SeqNo: **2112026**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.240	0.25	2.500	0.6682	103	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 116069
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: **MB-70707B** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **129996**
Client ID: **PBS** Batch ID: **70707** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/15/2011** SeqNo: **2112027**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **MB-70685B TCLP** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **129996**
Client ID: **PBS** Batch ID: **70707** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/15/2011** SeqNo: **2112028**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **116069-032A-DUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **129996**
Client ID: **1127-188-2.0** Batch ID: **70707** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/15/2011** SeqNo: **2112039**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.656	0.25						0.6450	1.68	20	

Sample ID: **116069-032A-MS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **129996**
Client ID: **1127-188-2.0** Batch ID: **70707** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/15/2011** SeqNo: **2112040**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.017	0.25	2.500	0.6450	94.9	70	130				

Sample ID: **116069-032A-MSD** SampType: **MSD** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **129996**
Client ID: **1127-188-2.0** Batch ID: **70707** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/15/2011** SeqNo: **2112041**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.039	0.25	2.500	0.6450	95.8	70	130	3.017	0.748	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 116069
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: **MB-70686A TCLP**	SampType: **MBLK**	TestCode: **7420_TC**	Units: **mg/L**	Prep Date: **2/15/2011**	RunNo: **129997**
Client ID: **PBS**	Batch ID: **70708**	TestNo: **EPA 1311/ 74**	**EPA3010A**	Analysis Date: **2/15/2011**	SeqNo: **2112047**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-70708**	SampType: **LCS**	TestCode: **7420_TC**	Units: **mg/L**	Prep Date: **2/15/2011**	RunNo: **129997**
Client ID: **LCSS**	Batch ID: **70708**	TestNo: **EPA 1311/ 74**	**EPA3010A**	Analysis Date: **2/15/2011**	SeqNo: **2112048**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.953	0.25	1.000	0	95.3	80	120				

Sample ID: **116135-024A-DUP**	SampType: **DUP**	TestCode: **7420_TC**	Units: **mg/L**	Prep Date: **2/15/2011**	RunNo: **129997**
Client ID: **ZZZZZZ**	Batch ID: **70708**	TestNo: **EPA 1311/ 74**	**EPA3010A**	Analysis Date: **2/15/2011**	SeqNo: **2112059**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.512	0.25						0.5725	11.2	20	

Sample ID: **116135-024A-MS**	SampType: **MS**	TestCode: **7420_TC**	Units: **mg/L**	Prep Date: **2/15/2011**	RunNo: **129997**
Client ID: **ZZZZZZ**	Batch ID: **70708**	TestNo: **EPA 1311/ 74**	**EPA3010A**	Analysis Date: **2/15/2011**	SeqNo: **2112060**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.108	0.25	2.500	0.5725	101	70	130				

Sample ID: **MB-70708B**	SampType: **MBLK**	TestCode: **7420_TC**	Units: **mg/L**	Prep Date: **2/15/2011**	RunNo: **129997**
Client ID: **PBS**	Batch ID: **70708**	TestNo: **EPA 1311/ 74**	**EPA3010A**	Analysis Date: **2/15/2011**	SeqNo: **2112061**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.244	0.25									J

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Geocon Consultants, Inc.
Work Order: 116069
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: **MB-70686B TCLP** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **129997**
Client ID: **PBS** Batch ID: **70708** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/15/2011** SeqNo: **2112062**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.215	0.25									J

Sample ID: **116136-018A-DUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **129997**
Client ID: **ZZZZZZ** Batch ID: **70708** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/15/2011** SeqNo: **2112073**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.381	0.25						1.349	2.34	20	

Sample ID: **116136-018A-MS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **129997**
Client ID: **ZZZZZZ** Batch ID: **70708** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/15/2011** SeqNo: **2112074**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.449	0.25	2.500	1.349	84.0	70	130				

Sample ID: **116136-018A-MSD** SampType: **MSD** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **129997**
Client ID: **ZZZZZZ** Batch ID: **70708** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/15/2011** SeqNo: **2112075**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.505	0.25	2.500	1.349	86.2	70	130	3.449	1.60	20	

Sample ID: **MB-70708A** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **129999**
Client ID: **PBS** Batch ID: **70708** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/15/2011** SeqNo: **2112076**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 116069
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

Sample ID: **MB-70746** SampType: **MBLK** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **2/16/2011** RunNo: **130056**
Client ID: **PBS** Batch ID: **70746** TestNo: **EPA 7471A** Analysis Date: **2/17/2011** SeqNo: **2113500**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: **LCS-70746** SampType: **LCS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **2/16/2011** RunNo: **130056**
Client ID: **LCSS** Batch ID: **70746** TestNo: **EPA 7471A** Analysis Date: **2/17/2011** SeqNo: **2113501**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.811	0.10	0.8300	0	97.7	80	120				

Sample ID: **116069-029A-MS** SampType: **MS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **2/16/2011** RunNo: **130056**
Client ID: **1127-195-1.0** Batch ID: **70746** TestNo: **EPA 7471A** Analysis Date: **2/17/2011** SeqNo: **2113503**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.963	0.10	0.8300	0.03672	112	70	130				

Sample ID: **116069-029A-MSD** SampType: **MSD** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **2/16/2011** RunNo: **130056**
Client ID: **1127-195-1.0** Batch ID: **70746** TestNo: **EPA 7471A** Analysis Date: **2/17/2011** SeqNo: **2113504**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.965	0.10	0.8300	0.03672	112	70	130	0.9625	0.256	20	

Sample ID: **116069-029A-DUP** SampType: **DUP** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **2/16/2011** RunNo: **130056**
Client ID: **1127-195-1.0** Batch ID: **70746** TestNo: **EPA 7471A** Analysis Date: **2/17/2011** SeqNo: **2113506**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.036	0.10						0.03672	0	20	J

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 116069
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 9045_S

Sample ID: **116069-022ADUP** SampType: **DUP** TestCode: **9045_S** Units: **pH Units** Prep Date: RunNo: **129968**
Client ID: **1127-187-2.5-3.0** Batch ID: **R129968** TestNo: **EPA 9045C** Analysis Date: **2/15/2011** SeqNo: **2111271**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.860	0.10						7.950	1.14	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Geocon Consultants, Inc.
Work Order: 116069
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 9045_S

Sample ID: **116069-009ADUP** SampType: **DUP** TestCode: **9045_S** Units: **pH Units** Prep Date: RunNo: **130063**
Client ID: **1127-192-2.5-3.0** Batch ID: **R130063** TestNo: **EPA 9045C** Analysis Date: **2/17/2011** SeqNo: **2113450**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.560	0.10						7.570	0.132	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

April 20, 2011

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 116070

Mike Conkle
Geocon Consultants, Inc.
3303 N. San Fernando Blvd., Suite 100
Burbank, CA 91504

TEL: (818) 841-8388
FAX: (818) 841-1704

RE: State Route 10 ADL, S9500-06-04

Attention: Mike Conkle

Enclosed are the results for sample(s) received on January 28, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an addendum report. Please incorporate with documentation previously submitted.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

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Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Geocon Consultants, Inc.
Project: State Route 10 ADL, S9500-06-04
Lab Order: 116070

CASE NARRATIVE

Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" Flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

Date: 4/20/2011

ANALYTICAL RESULTS

LEAD BY ICP
EPA 6010B

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	116070
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	1/28/2011 8:05:00 PM
Project No:		**Matrix:**	Water
Analyte:	Lead	**Analyst:**	JSD

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
116070-001A	EB-100-14	ND	mg/L	70366	0.0046	0.25		1	1/28/2011	2/4/2011
116070-002A	EB-100-15	ND	mg/L	70366	0.0046	0.25		1	1/28/2011	2/4/2011
116070-003A	EB-100-16	ND	mg/L	70366	0.0046	0.25		1	1/28/2011	2/4/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Geocon Consultants, Inc.
Work Order: 116070
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WPB

Sample ID: **MB-70366** SampType: **MBLK** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **2/3/2011** RunNo: **129585**
Client ID: **PBW** Batch ID: **70366** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **2/4/2011** SeqNo: **2103095**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-70366** SampType: **LCS** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **2/3/2011** RunNo: **129585**
Client ID: **LCSW** Batch ID: **70366** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **2/4/2011** SeqNo: **2103096**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.000	0.25	1.000	0	100	85	115				

Sample ID: **116070-003A-DUP** SampType: **DUP** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **2/3/2011** RunNo: **129585**
Client ID: **EB-100-16** Batch ID: **70366** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **2/4/2011** SeqNo: **2103103**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25						0	0	20	

Sample ID: **116070-003A-MS** SampType: **MS** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **2/3/2011** RunNo: **129585**
Client ID: **EB-100-16** Batch ID: **70366** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **2/4/2011** SeqNo: **2103104**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.483	0.25	2.500	0	99.3	80	118				

Sample ID: **116070-003A-MSD** SampType: **MSD** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **2/3/2011** RunNo: **129585**
Client ID: **EB-100-16** Batch ID: **70366** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **2/4/2011** SeqNo: **2103105**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.489	0.25	2.500	0	99.6	80	118	2.483	0.231	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 *Tel: 562. 989.4045* *Fax: 562.989.4040*

April 20, 2011

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 116098

Mike Conkle
Geocon Consultants, Inc.
3303 N. San Fernando Blvd., Suite 100
Burbank, CA 91504

TEL: (818) 841-8388
FAX: (818) 841-1704

RE: State Route 10 ADL, S9500-06-04

Attention: Mike Conkle

Enclosed are the results for sample(s) received on February 01, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an addendum report. Please incorporate with documentation previously submitted.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Geocon Consultants, Inc.
Project: State Route 10 ADL, S9500-06-04
Lab Order: 116098

CASE NARRATIVE

Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" Flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

Date: 4/20/2011

ANALYTICAL RESULTS

LEAD BY ICP
EPA 6010B

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	116098
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	2/1/2011 6:50:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	JSD

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
116098-001A	1127-131-0.5-1.0	82	mg/Kg	70398	0.11	5.0		1	1/31/2011	2/8/2011
116098-002A	1127-131-1.5-2.0	61	mg/Kg	70398	0.11	5.0		1	1/31/2011	2/8/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

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Advanced Technology Laboratories

Date: 4/20/2011

ANALYTICAL RESULTS

LEAD BY ATOMIC ABSORPTION
WET DI/ EPA 7420

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	116098
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	2/1/2011 6:50:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	VV

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
116098-002A	1127-131-1.5-2.0	ND	mg/L	70713	0.21	0.25		1	1/31/2011	2/17/2011

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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Advanced Technology Laboratories

Date: 4/20/2011

ANALYTICAL RESULTS

LEAD BY ATOMIC ABSORPTION (STLC)
WET/ EPA 7420

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	116098
Project:	State Route 10 ADL, S9500-06-04	**Date Received**	2/1/2011 6:50:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	VV

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
116098-001A	1127-131-0.5-1.0	4.8	mg/L	70564	0.21	0.25		1	1/31/2011	2/14/2011
116098-002A	1127-131-1.5-2.0	5.0	mg/L	70564	0.21	0.25		1	1/31/2011	2/14/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

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CLIENT: Geocon Consultants, Inc.
Work Order: 116098
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **MB-70398** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/4/2011** RunNo: **129711**
Client ID: **PBS** Batch ID: **70398** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/8/2011** SeqNo: **2105779**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-70398** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/4/2011** RunNo: **129711**
Client ID: **LCSS** Batch ID: **70398** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/8/2011** SeqNo: **2105780**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	272.099	5.0	250.0	0	109	80	120				

Sample ID: **116098-002A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/4/2011** RunNo: **129711**
Client ID: **1127-131-1.5-2.0** Batch ID: **70398** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/8/2011** SeqNo: **2105783**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	62.380	5.0						60.60	2.89	20	

Sample ID: **116098-002A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/4/2011** RunNo: **129711**
Client ID: **1127-131-1.5-2.0** Batch ID: **70398** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/8/2011** SeqNo: **2105784**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	274.450	5.0	250.0	60.60	85.5	34	126				

Sample ID: **116098-002A-MSD** SampType: **MSD** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **2/4/2011** RunNo: **129711**
Client ID: **1127-131-1.5-2.0** Batch ID: **70398** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **2/8/2011** SeqNo: **2105785**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	281.513	5.0	250.0	60.60	88.4	34	126	274.4	2.54	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 116098
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI_GEOCON

Sample ID: **MB-70713A** SampType: **MBLK** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **130072**
Client ID: **PBS** Batch ID: **70713** TestNo: **WET DI/ EPA WET** Analysis Date: **2/17/2011** SeqNo: **2113685**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-70713** SampType: **LCS** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **130072**
Client ID: **LCSS** Batch ID: **70713** TestNo: **WET DI/ EPA WET** Analysis Date: **2/17/2011** SeqNo: **2113686**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.849	0.25	5.000	0	97.0	80	120				

Sample ID: **116098-002A-DUP** SampType: **DUP** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **130072**
Client ID: **1127-131-1.5-2.0** Batch ID: **70713** TestNo: **WET DI/ EPA WET** Analysis Date: **2/17/2011** SeqNo: **2113690**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25						0	0	20	

Sample ID: **116098-002A-MS** SampType: **MS** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **130072**
Client ID: **1127-131-1.5-2.0** Batch ID: **70713** TestNo: **WET DI/ EPA WET** Analysis Date: **2/17/2011** SeqNo: **2113691**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.006	0.25	5.000	0	100	70	130				

Sample ID: **116098-002A-MSD** SampType: **MSD** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **130072**
Client ID: **1127-131-1.5-2.0** Batch ID: **70713** TestNo: **WET DI/ EPA WET** Analysis Date: **2/17/2011** SeqNo: **2113692**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.069	0.25	5.000	0	101	70	130	5.006	1.25	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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CLIENT: Geocon Consultants, Inc.
Work Order: 116098
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID: **MB-70564A** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/9/2011** RunNo: **129941**
Client ID: **PBS** Batch ID: **70564** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/14/2011** SeqNo: **2110507**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-70564** SampType: **LCS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/9/2011** RunNo: **129941**
Client ID: **LCSS** Batch ID: **70564** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/14/2011** SeqNo: **2110508**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.964	0.25	5.000	0	99.3	80	120				

Sample ID: **116098-002A-DUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/9/2011** RunNo: **129941**
Client ID: **1127-131-1.5-2.0** Batch ID: **70564** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/14/2011** SeqNo: **2110512**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.036	0.25						4.997	0.780	20	

Sample ID: **116098-002A-MS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/9/2011** RunNo: **129941**
Client ID: **1127-131-1.5-2.0** Batch ID: **70564** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/14/2011** SeqNo: **2110513**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	10.506	0.50	5.000	4.997	110	80	120				

Sample ID: **116098-002A-MSD** SampType: **MSD** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/9/2011** RunNo: **129941**
Client ID: **1127-131-1.5-2.0** Batch ID: **70564** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/14/2011** SeqNo: **2110514**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	10.574	0.50	5.000	4.997	112	80	120	10.51	0.650	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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CLIENT: Geocon Consultants, Inc.
Work Order: 116098
Project: State Route 10 ADL, S9500-06-04

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID: **MB-70713A** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **130066**
Client ID: **PBS** Batch ID: **70713** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/17/2011** SeqNo: **2113592**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-70713** SampType: **LCS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **130066**
Client ID: **LCSS** Batch ID: **70713** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/17/2011** SeqNo: **2113593**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.952	0.25	5.000	0	99.0	80	120				

Sample ID: **115975-045A-DUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **130066**
Client ID: **ZZZZZZ** Batch ID: **70713** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/17/2011** SeqNo: **2113599**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	6.859	0.25						6.913	0.785	20	

Sample ID: **115975-045A-MS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **130066**
Client ID: **ZZZZZZ** Batch ID: **70713** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/17/2011** SeqNo: **2113600**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	11.922	0.50	5.000	6.913	100	80	120				

Sample ID: **115975-045A-MSD** SampType: **MSD** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/15/2011** RunNo: **130066**
Client ID: **ZZZZZZ** Batch ID: **70713** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/17/2011** SeqNo: **2113601**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	11.970	0.50	5.000	6.913	101	80	120	11.92	0.397	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories
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April 26, 2011

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Vinnie Robino
AMEC Geomatrix
510 Superior Avenue, Suite 200
Newport Beach, CA 92663-3627

TEL: (949) 274-6516
FAX: (949) 642-4474

Workorder No.: 116888

RE: Caltrans-TO11A1, 0153240110

Attention: Vinnie Robino

Enclosed are the results for sample(s) received on March 16, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an addendum report. Please incorporate with documentation previously submitted.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

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CASE NARRATIVE

Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" Flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Analytical Comments for Method 6010

Matrix Spike (MS) and /or Matrix Spike Duplicate (MSD) are/is outside recovery criteria for samples 116892-009AMS and 116892-009AMSD; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

RPD for Duplicate (DUP) is outside criteria for samples 116888-050ADUP, 116888-051ADUP and 116892-003ADUP; however, the Laboratory Control Sample (LCS) validated the analytical batch.

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Advanced Technology Laboratories

Date: 4/26/2011

ANALYTICAL RESULTS

LEAD BY ICP
EPA 6010B

CLIENT:	AMEC Geomatrix	**Lab Order:**	116888
Project:	Caltrans-TO11A1, 0153240110	**Date Received:**	3/16/2011 5:38:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
116888-001A	1127-201-3.5	0.90	mg/Kg	71695	0.13	5.0	J	1	3/15/2011	3/22/2011
116888-002A	1127-201-4.5	0.44	mg/Kg	71695	0.13	5.0	J	1	3/15/2011	3/22/2011
116888-003A	1127-201-5.5	0.80	mg/Kg	71695	0.13	5.0	J	1	3/15/2011	3/22/2011
116888-004A	1127-201-6.5	0.81	mg/Kg	71695	0.13	5.0	J	1	3/15/2011	3/22/2011
116888-005A	1127-201-7.5	1.4	mg/Kg	71695	0.13	5.0	J	1	3/15/2011	3/22/2011
116888-006A	1127-201-10.5	0.60	mg/Kg	71695	0.13	5.0	J	1	3/15/2011	3/22/2011
116888-007A	1127-202-3.5	1.2	mg/Kg	71695	0.13	5.0	J	1	3/15/2011	3/22/2011
116888-008A	1127-202-4.5	1.1	mg/Kg	71695	0.13	5.0	J	1	3/15/2011	3/22/2011
116888-009A	1127-202-5.0	0.91	mg/Kg	71695	0.13	5.0	J	1	3/15/2011	3/22/2011
116888-010A	1127-202-5.5	1.4	mg/Kg	71695	0.13	5.0	J	1	3/15/2011	3/22/2011
116888-011A	1127-203-3.5	1.1	mg/Kg	71697	0.13	5.0	J	1	3/15/2011	3/22/2011
116888-012A	1127-203-4.5	1.4	mg/Kg	71697	0.13	5.0	J	1	3/15/2011	3/22/2011
116888-013A	1127-203-5.5	0.69	mg/Kg	71697	0.13	5.0	J	1	3/15/2011	3/22/2011
116888-014A	1127-203-6.0	0.79	mg/Kg	71697	0.13	5.0	J	1	3/15/2011	3/22/2011
116888-015A	1127-203-6.5	0.79	mg/Kg	71697	0.13	5.0	J	1	3/15/2011	3/22/2011
116888-016A	1127-203-7.0	0.37	mg/Kg	71697	0.13	5.0	J	1	3/15/2011	3/22/2011
116888-017A	1127-204-3.5	0.87	mg/Kg	71697	0.13	5.0	J	1	3/15/2011	3/22/2011
116888-018A	1127-204-4.5	0.57	mg/Kg	71697	0.13	5.0	J	1	3/15/2011	3/22/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

Date: 4/26/2011

ANALYTICAL RESULTS

LEAD BY ICP
EPA 6010B

CLIENT:	AMEC Geomatrix	**Lab Order:**	116888
Project:	Caltrans-TO11A1, 0153240110	**Date Received:**	3/16/2011 5:38:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
116888-019A	1127-204-5.5	1.2	mg/Kg	71697	0.13	5.0	J	1	3/15/2011	3/22/2011
116888-020A	1127-204-6.0	1.3	mg/Kg	71697	0.13	5.0	J	1	3/15/2011	3/22/2011
116888-021A	1127-204-6.5	1.3	mg/Kg	71697	0.13	5.0	J	1	3/15/2011	3/22/2011
116888-022A	1127-205-2.5	0.64	mg/Kg	71697	0.13	5.0	J	1	3/15/2011	3/22/2011
116888-023A	1127-205-3.0	0.88	mg/Kg	71697	0.13	5.0	J	1	3/15/2011	3/22/2011
116888-024A	1127-205-3.5	1.6	mg/Kg	71697	0.13	5.0	J	1	3/15/2011	3/22/2011
116888-025A	1127-206-2.5	0.39	mg/Kg	71697	0.13	5.0	J	1	3/15/2011	3/22/2011
116888-026A	1127-206-3.0	0.72	mg/Kg	71697	0.13	5.0	J	1	3/15/2011	3/22/2011
116888-027A	1127-206-3.5	0.61	mg/Kg	71697	0.13	5.0	J	1	3/15/2011	3/22/2011
116888-028A	1127-207-4.5	1.0	mg/Kg	71697	0.13	5.0	J	1	3/15/2011	3/22/2011
116888-029A	1127-207-5.5	0.52	mg/Kg	71697	0.13	5.0	J	1	3/15/2011	3/22/2011
116888-030A	1127-207-6.5	2.0	mg/Kg	71697	0.13	5.0	J	1	3/15/2011	3/22/2011
116888-031A	1127-207-7.0	3.2	mg/Kg	71698	0.13	5.0	J	1	3/15/2011	3/22/2011
116888-032A	1127-207-10.5	0.25	mg/Kg	71698	0.13	5.0	J	1	3/15/2011	3/22/2011
116888-033A	1127-208-3.4	1.4	mg/Kg	71698	0.13	5.0	J	1	3/15/2011	3/22/2011
116888-034A	1127-208-4.5	1.5	mg/Kg	71698	0.13	5.0	J	1	3/15/2011	3/22/2011
116888-035A	1127-208-5.5	0.90	mg/Kg	71698	0.13	5.0	J	1	3/15/2011	3/22/2011
116888-036A	1127-208-6.5	0.48	mg/Kg	71698	0.13	5.0	J	1	3/15/2011	3/22/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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Advanced Technology Laboratories

Date: 4/26/2011

ANALYTICAL RESULTS

LEAD BY ICP
EPA 6010B

CLIENT:	AMEC Geomatrix	**Lab Order:**	116888
Project:	Caltrans-TO11A1, 0153240110	**Date Received:**	3/16/2011 5:38:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
116888-037A	1127-208-7.5	0.42	mg/Kg	71698	0.13	5.0	J	1	3/15/2011	3/22/2011
116888-038A	1127-208-10.5	0.70	mg/Kg	71698	0.13	5.0	J	1	3/15/2011	3/22/2011
116888-039A	1127-209-4.5	13	mg/Kg	71698	0.13	5.0		1	3/15/2011	3/22/2011
116888-040A	1127-209-5.5	91	mg/Kg	71698	0.13	5.0		1	3/15/2011	3/22/2011
116888-041A	1127-209-6.4	4.1	mg/Kg	71698	0.13	5.0	J	1	3/15/2011	3/22/2011
116888-042A	1127-209-8.5	1.4	mg/Kg	71698	0.13	5.0	J	1	3/15/2011	3/22/2011
116888-043A	1127-209-10.5	1.8	mg/Kg	71698	0.13	5.0	J	1	3/15/2011	3/22/2011
116888-044A	1127-210-4.5	7.9	mg/Kg	71698	0.13	5.0		1	3/15/2011	3/22/2011
116888-045A	1127-210-5.5	86	mg/Kg	71698	0.13	5.0		1	3/15/2011	3/22/2011
116888-046A	1127-210-6.5	47	mg/Kg	71698	0.13	5.0		1	3/15/2011	3/22/2011
116888-047A	1127-210-8.5	150	mg/Kg	71698	0.13	5.0		1	3/15/2011	3/22/2011
116888-048A	1127-210-10.0	64	mg/Kg	71698	0.13	5.0		1	3/15/2011	3/22/2011
116888-049A	1127-211-4.5	31	mg/Kg	71698	0.13	5.0		1	3/15/2011	3/22/2011
116888-050A	1127-211-5.5	87	mg/Kg	71698	0.13	5.0		1	3/15/2011	3/22/2011
116888-051A	1127-211-9.0	170	mg/Kg	71699	0.13	5.0		1	3/15/2011	3/22/2011
116888-052A	1127-212-4.5	17	mg/Kg	71699	0.13	5.0		1	3/15/2011	3/22/2011
116888-053A	1127-212-5.5	1.5	mg/Kg	71699	0.13	5.0	J	1	3/15/2011	3/22/2011
116888-054A	1127-212-8.5	7.6	mg/Kg	71699	0.13	5.0		1	3/15/2011	3/22/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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Date: 4/26/2011

ANALYTICAL RESULTS

LEAD BY ICP
EPA 6010B

CLIENT:	AMEC Geomatrix	**Lab Order:**	116888
Project:	Caltrans-TO11A1, 0153240110	**Date Received:**	3/16/2011 5:38:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
116888-055A	1127-212-10.0	3.0	mg/Kg	71699	0.13	5.0	J	1	3/15/2011	3/22/2011

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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Date: 4/26/2011

ANALYTICAL RESULTS

LEAD BY ICP
EPA 6010B

CLIENT:	AMEC Geomatrix	**Lab Order:**	116888
Project:	Caltrans-TO11A1, 0153240110	**Date Received:**	3/16/2011 5:38:00 PM
Project No:		**Matrix:**	Water
Analyte:	Lead	**Analyst:**	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
116888-056A	1127-200-EB1	ND	mg/L	71683	0.00081	0.25		1	3/15/2011	3/21/2011
116888-057A	1127-200-FB1	0.00090	mg/L	71683	0.00081	0.25	J	1	3/15/2011	3/21/2011
116888-058A	1127-200-EB2	ND	mg/L	71683	0.00081	0.25		1	3/15/2011	3/21/2011
116888-059A	1127-200-FB2	0.0018	mg/L	71683	0.00081	0.25	J	1	3/15/2011	3/21/2011
116888-060A	1127-200-EB3	0.0015	mg/L	71683	0.00081	0.25	J	1	3/15/2011	3/21/2011
116888-061A	1127-200-FB3	ND	mg/L	71683	0.00081	0.25		1	3/15/2011	3/21/2011
116888-062A	1127-200-EB4	ND	mg/L	71683	0.00081	0.25		1	3/15/2011	3/21/2011
116888-063A	1127-200-FB4	ND	mg/L	71683	0.00081	0.25		1	3/15/2011	3/21/2011
116888-064A	1127-200-SW	ND	mg/L	71683	0.00081	0.25		1	3/15/2011	3/21/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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Date: 4/26/2011

ANALYTICAL RESULTS

LEAD BY ATOMIC ABSORPTION
WET DI/ EPA 7420

CLIENT:	AMEC Geomatrix	**Lab Order:**	116888
Project:	Caltrans-TO11A1, 0153240110	**Date Received:**	3/16/2011 5:38:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
116888-040A	1127-209-5.5	ND	mg/L	71893	0.21	0.25		1	3/15/2011	4/4/2011
116888-045A	1127-210-5.5	ND	mg/L	71893	0.21	0.25		1	3/15/2011	4/4/2011
116888-047A	1127-210-8.5	ND	mg/L	71893	0.21	0.25		1	3/15/2011	4/4/2011
116888-048A	1127-210-10.0	ND	mg/L	71893	0.21	0.25		1	3/15/2011	4/4/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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Advanced Technology Laboratories

Date: 4/26/2011

ANALYTICAL RESULTS

LEAD BY ATOMIC ABSORPTION (STLC)
WET/ EPA 7420

CLIENT:	AMEC Geomatrix	**Lab Order:**	116888
Project:	Caltrans-TO11A1, 0153240110	**Date Received:**	3/16/2011 5:38:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	VV

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
116888-040A	1127-209-5.5	5.4	mg/L	71747	0.21	0.25		1	3/15/2011	3/25/2011
116888-045A	1127-210-5.5	5.5	mg/L	71747	0.21	0.25		1	3/15/2011	3/25/2011
116888-047A	1127-210-8.5	8.3	mg/L	71747	0.21	0.25		1	3/15/2011	3/25/2011
116888-048A	1127-210-10.0	6.4	mg/L	71747	0.21	0.25		1	3/15/2011	3/25/2011
116888-050A	1127-211-5.5	4.0	mg/L	71747	0.21	0.25		1	3/15/2011	3/25/2011
116888-051A	1127-211-9.0	4.4	mg/L	71747	0.21	0.25		1	3/15/2011	3/25/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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Date: 4/26/2011

ANALYTICAL RESULTS

LEAD BY ATOMIC ABSORPTION (TCLP)
EPA 1311/ 7420

CLIENT:	AMEC Geomatrix	**Lab Order:**	116888
Project:	Caltrans-TO11A1, 0153240110	**Date Received:**	3/16/2011 5:38:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	VV

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
116888-040A	1127-209-5.5	ND	mg/L	72200	0.21	0.25		1	3/15/2011	4/13/2011
116888-045A	1127-210-5.5	0.31	mg/L	72258	0.21	0.25		1	3/15/2011	4/15/2011
116888-047A	1127-210-8.5	0.21	mg/L	72200	0.21	0.25	J	1	3/15/2011	4/13/2011
116888-048A	1127-210-10.0	0.41	mg/L	72258	0.21	0.25		1	3/15/2011	4/15/2011
116888-050A	1127-211-5.5	0.34	mg/L	72258	0.21	0.25		1	3/15/2011	4/15/2011
116888-051A	1127-211-9.0	ND	mg/L	72200	0.21	0.25		1	3/15/2011	4/13/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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Date: 4/26/2011

ANALYTICAL RESULTS

pH
EPA 9045C

CLIENT:	AMEC Geomatrix	**Lab Order:**	116888
Project:	Caltrans-TO11A1, 0153240110	**Date Received:**	3/16/2011 5:38:00 PM
Project No:		**Matrix:**	Soil
Analyte:	pH	**Analyst:**	CBB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
116888-007A	1127-202-3.5	8.3	pH Units	R131200	0.10	0.10		1	3/15/2011	3/18/2011
116888-019A	1127-204-5.5	7.8	pH Units	R131200	0.10	0.10		1	3/15/2011	3/18/2011
116888-024A	1127-205-3.5	8.2	pH Units	R131200	0.10	0.10		1	3/15/2011	3/18/2011
116888-032A	1127-207-10.5	7.6	pH Units	R131200	0.10	0.10		1	3/15/2011	3/18/2011
116888-039A	1127-209-4.5	7.6	pH Units	R131200	0.10	0.10		1	3/15/2011	3/18/2011
116888-047A	1127-210-8.5	8.0	pH Units	R131200	0.10	0.10		1	3/15/2011	3/18/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *26-Apr-11*

CLIENT: AMEC Geomatrix
Lab Order: 116888
Project: Caltrans-TO11A1, 0153240110
Lab ID: 116888-040A

Client Sample ID: 1127-209-5.5
Collection Date: 3/15/2011 1:51:00 PM
Matrix: SOIL

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B		**EPA 6010B**				
RunID: **ICP8_110412D**	QC Batch: **72172**				PrepDate:	**4/12/2011**	Analyst: **IL**
Antimony	0.78	0.16	2.0	J	mg/Kg	1	4/12/2011 05:37 PM
Arsenic	5.4	0.20	1.0		mg/Kg	1	4/12/2011 05:37 PM
Barium	140	0.056	1.0		mg/Kg	1	4/12/2011 05:37 PM
Beryllium	ND	0.042	1.0		mg/Kg	1	4/12/2011 05:37 PM
Cadmium	3.5	0.043	1.0		mg/Kg	1	4/12/2011 05:37 PM
Chromium	20	0.13	1.0		mg/Kg	1	4/12/2011 05:37 PM
Cobalt	5.8	0.11	1.0		mg/Kg	1	4/12/2011 05:37 PM
Copper	23	0.18	2.0		mg/Kg	1	4/12/2011 05:37 PM
Molybdenum	9.6	0.097	1.0		mg/Kg	1	4/12/2011 05:37 PM
Nickel	37	0.11	1.0		mg/Kg	1	4/12/2011 05:37 PM
Selenium	ND	0.28	1.0		mg/Kg	1	4/12/2011 05:37 PM
Silver	ND	0.042	1.0		mg/Kg	1	4/12/2011 05:37 PM
Thallium	ND	0.098	1.0		mg/Kg	1	4/12/2011 05:37 PM
Vanadium	66	0.088	1.0		mg/Kg	1	4/12/2011 05:37 PM
Zinc	77	0.13	1.0		mg/Kg	1	4/12/2011 05:37 PM
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 7471A				
RunID: **AA1_110412D**	QC Batch: **72176**				PrepDate:	**4/12/2011**	Analyst: **VV**
Mercury	0.045	0.0076	0.10	J	mg/Kg	1	4/12/2011 05:36 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *26-Apr-11*

CLIENT:	AMEC Geomatrix	**Client Sample ID:**	1127-210-5.5
Lab Order:	116888	**Collection Date:**	3/15/2011 2:11:00 PM
Project:	Caltrans-TO11A1, 0153240110	**Matrix:**	SOIL
Lab ID:	116888-045A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B		**EPA 6010B**				
RunID: **ICP8_110412D**	QC Batch: **72172**				PrepDate:	**4/12/2011**	Analyst: **IL**
Antimony	0.65	0.16	2.0	J	mg/Kg	1	4/12/2011 05:47 PM
Arsenic	3.8	0.20	1.0		mg/Kg	1	4/12/2011 05:47 PM
Barium	160	0.056	1.0		mg/Kg	1	4/12/2011 05:47 PM
Beryllium	ND	0.042	1.0		mg/Kg	1	4/12/2011 05:47 PM
Cadmium	2.8	0.043	1.0		mg/Kg	1	4/12/2011 05:47 PM
Chromium	20	0.13	1.0		mg/Kg	1	4/12/2011 05:47 PM
Cobalt	6.3	0.11	1.0		mg/Kg	1	4/12/2011 05:47 PM
Copper	22	0.18	2.0		mg/Kg	1	4/12/2011 05:47 PM
Molybdenum	8.0	0.097	1.0		mg/Kg	1	4/12/2011 05:47 PM
Nickel	33	0.11	1.0		mg/Kg	1	4/12/2011 05:47 PM
Selenium	ND	0.28	1.0		mg/Kg	1	4/12/2011 05:47 PM
Silver	ND	0.042	1.0		mg/Kg	1	4/12/2011 05:47 PM
Thallium	ND	0.098	1.0		mg/Kg	1	4/12/2011 05:47 PM
Vanadium	58	0.088	1.0		mg/Kg	1	4/12/2011 05:47 PM
Zinc	78	0.13	1.0		mg/Kg	1	4/12/2011 05:47 PM
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 7471A				
RunID: **AA1_110412D**	QC Batch: **72176**				PrepDate:	**4/12/2011**	Analyst: **VV**
Mercury	0.029	0.0076	0.10	J	mg/Kg	1	4/12/2011 05:38 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *26-Apr-11*

CLIENT: AMEC Geomatrix
Lab Order: 116888
Project: Caltrans-TO11A1, 0153240110
Lab ID: 116888-047A

Client Sample ID: 1127-210-8.5
Collection Date: 3/15/2011 2:15:00 PM
Matrix: SOIL

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B		**EPA 6010B**				
RunID: **ICP8_110412D**	QC Batch: **72172**				PrepDate:	**4/12/2011**	Analyst: **IL**
Antimony	0.71	0.16	2.0	J	mg/Kg	1	4/12/2011 05:50 PM
Arsenic	4.2	0.20	1.0		mg/Kg	1	4/12/2011 05:50 PM
Barium	160	0.056	1.0		mg/Kg	1	4/12/2011 05:50 PM
Beryllium	ND	0.042	1.0		mg/Kg	1	4/12/2011 05:50 PM
Cadmium	3.6	0.043	1.0		mg/Kg	1	4/12/2011 05:50 PM
Chromium	20	0.13	1.0		mg/Kg	1	4/12/2011 05:50 PM
Cobalt	5.8	0.11	1.0		mg/Kg	1	4/12/2011 05:50 PM
Copper	24	0.18	2.0		mg/Kg	1	4/12/2011 05:50 PM
Molybdenum	11	0.097	1.0		mg/Kg	1	4/12/2011 05:50 PM
Nickel	38	0.11	1.0		mg/Kg	1	4/12/2011 05:50 PM
Selenium	0.51	0.28	1.0	J	mg/Kg	1	4/12/2011 05:50 PM
Silver	ND	0.042	1.0		mg/Kg	1	4/12/2011 05:50 PM
Thallium	ND	0.098	1.0		mg/Kg	1	4/12/2011 05:50 PM
Vanadium	56	0.088	1.0		mg/Kg	1	4/12/2011 05:50 PM
Zinc	77	0.13	1.0		mg/Kg	1	4/12/2011 05:50 PM
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 7471A				
RunID: **AA1_110412D**	QC Batch: **72176**				PrepDate:	**4/12/2011**	Analyst: **VV**
Mercury	0.073	0.0076	0.10	J	mg/Kg	1	4/12/2011 05:40 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *26-Apr-11*

CLIENT:	AMEC Geomatrix	**Client Sample ID:**	1127-210-10.0
Lab Order:	116888	**Collection Date:**	3/15/2011 2:16:00 PM
Project:	Caltrans-TO11A1, 0153240110	**Matrix:**	SOIL
Lab ID:	116888-048A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B		**EPA 6010B**				
RunID: **ICP8_110412D**	QC Batch: **72172**				PrepDate:	**4/12/2011**	Analyst: **IL**
Antimony	0.67	0.16	2.0	J	mg/Kg	1	4/12/2011 05:53 PM
Arsenic	6.6	0.20	1.0		mg/Kg	1	4/12/2011 05:53 PM
Barium	160	0.056	1.0		mg/Kg	1	4/12/2011 05:53 PM
Beryllium	ND	0.042	1.0		mg/Kg	1	4/12/2011 05:53 PM
Cadmium	3.6	0.043	1.0		mg/Kg	1	4/12/2011 05:53 PM
Chromium	17	0.13	1.0		mg/Kg	1	4/12/2011 05:53 PM
Cobalt	5.7	0.11	1.0		mg/Kg	1	4/12/2011 05:53 PM
Copper	25	0.18	2.0		mg/Kg	1	4/12/2011 05:53 PM
Molybdenum	7.3	0.097	1.0		mg/Kg	1	4/12/2011 05:53 PM
Nickel	37	0.11	1.0		mg/Kg	1	4/12/2011 05:53 PM
Selenium	2.6	0.28	1.0		mg/Kg	1	4/12/2011 05:53 PM
Silver	ND	0.042	1.0		mg/Kg	1	4/12/2011 05:53 PM
Thallium	ND	0.098	1.0		mg/Kg	1	4/12/2011 05:53 PM
Vanadium	54	0.088	1.0		mg/Kg	1	4/12/2011 05:53 PM
Zinc	62	0.13	1.0		mg/Kg	1	4/12/2011 05:53 PM
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 7471A				
RunID: **AA1_110412D**	QC Batch: **72176**				PrepDate:	**4/12/2011**	Analyst: **VV**
Mercury	0.078	0.0076	0.10	J	mg/Kg	1	4/12/2011 05:42 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

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ANALYTICAL RESULTS

Print Date: *26-Apr-11*

CLIENT:	AMEC Geomatrix	**Client Sample ID:**	1127-211-5.5
Lab Order:	116888	**Collection Date:**	3/15/2011 2:43:00 PM
Project:	Caltrans-TO11A1, 0153240110	**Matrix:**	SOIL
Lab ID:	116888-050A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B		**EPA 6010B**				
RunID: **ICP8_110412D**	QC Batch: **72172**				PrepDate:	**4/12/2011**	Analyst: **IL**
Antimony	0.71	0.16	2.0	J	mg/Kg	1	4/12/2011 05:56 PM
Arsenic	4.8	0.20	1.0		mg/Kg	1	4/12/2011 05:56 PM
Barium	170	0.056	1.0		mg/Kg	1	4/12/2011 05:56 PM
Beryllium	ND	0.042	1.0		mg/Kg	1	4/12/2011 05:56 PM
Cadmium	3.6	0.043	1.0		mg/Kg	1	4/12/2011 05:56 PM
Chromium	20	0.13	1.0		mg/Kg	1	4/12/2011 05:56 PM
Cobalt	6.0	0.11	1.0		mg/Kg	1	4/12/2011 05:56 PM
Copper	25	0.18	2.0		mg/Kg	1	4/12/2011 05:56 PM
Molybdenum	12	0.097	1.0		mg/Kg	1	4/12/2011 05:56 PM
Nickel	40	0.11	1.0		mg/Kg	1	4/12/2011 05:56 PM
Selenium	0.66	0.28	1.0	J	mg/Kg	1	4/12/2011 05:56 PM
Silver	ND	0.042	1.0		mg/Kg	1	4/12/2011 05:56 PM
Thallium	ND	0.098	1.0		mg/Kg	1	4/12/2011 05:56 PM
Vanadium	48	0.088	1.0		mg/Kg	1	4/12/2011 05:56 PM
Zinc	73	0.13	1.0		mg/Kg	1	4/12/2011 05:56 PM
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 7471A				
RunID: **AA1_110412D**	QC Batch: **72176**				PrepDate:	**4/12/2011**	Analyst: **VV**
Mercury	0.076	0.0076	0.10	J	mg/Kg	1	4/12/2011 05:44 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

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Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *26-Apr-11*

CLIENT: AMEC Geomatrix
Lab Order: 116888
Project: Caltrans-TO11A1, 0153240110
Lab ID: 116888-051A

Client Sample ID: 1127-211-9.0
Collection Date: 3/15/2011 2:50:00 PM
Matrix: SOIL

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B		**EPA 6010B**				
RunID: **ICP8_110412D**	QC Batch: **72172**				PrepDate:	**4/12/2011**	Analyst: **IL**
Antimony	0.67	0.16	2.0	J	mg/Kg	1	4/12/2011 06:00 PM
Arsenic	2.2	0.20	1.0		mg/Kg	1	4/12/2011 06:00 PM
Barium	170	0.056	1.0		mg/Kg	1	4/12/2011 06:00 PM
Beryllium	ND	0.042	1.0		mg/Kg	1	4/12/2011 06:00 PM
Cadmium	3.2	0.043	1.0		mg/Kg	1	4/12/2011 06:00 PM
Chromium	22	0.13	1.0		mg/Kg	1	4/12/2011 06:00 PM
Cobalt	6.7	0.11	1.0		mg/Kg	1	4/12/2011 06:00 PM
Copper	25	0.18	2.0		mg/Kg	1	4/12/2011 06:00 PM
Molybdenum	6.6	0.097	1.0		mg/Kg	1	4/12/2011 06:00 PM
Nickel	39	0.11	1.0		mg/Kg	1	4/12/2011 06:00 PM
Selenium	ND	0.28	1.0		mg/Kg	1	4/12/2011 06:00 PM
Silver	ND	0.042	1.0		mg/Kg	1	4/12/2011 06:00 PM
Thallium	ND	0.098	1.0		mg/Kg	1	4/12/2011 06:00 PM
Vanadium	44	0.088	1.0		mg/Kg	1	4/12/2011 06:00 PM
Zinc	82	0.13	1.0		mg/Kg	1	4/12/2011 06:00 PM
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 7471A				
RunID: **AA1_110412D**	QC Batch: **72176**				PrepDate:	**4/12/2011**	Analyst: **VV**
Mercury	0.047	0.0076	0.10	J	mg/Kg	1	4/12/2011 05:32 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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CLIENT: AMEC Geomatrix
Work Order: 116888
Project: Caltrans-TO11A1, 0153240110

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **MB-72172** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **4/12/2011** RunNo: **131976**
Client ID: **PBS** Batch ID: **72172** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **4/12/2011** SeqNo: **2149789**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.400	2.0									J
Arsenic	ND	1.0									
Barium	ND	1.0									
Beryllium	ND	1.0									
Cadmium	ND	1.0									
Chromium	ND	1.0									
Cobalt	ND	1.0									
Copper	ND	2.0									
Molybdenum	ND	1.0									
Nickel	ND	1.0									
Selenium	ND	1.0									
Silver	ND	1.0									
Thallium	ND	1.0									
Vanadium	ND	1.0									
Zinc	0.164	1.0									J

Sample ID: **LCS-72172** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **4/12/2011** RunNo: **131976**
Client ID: **LCSS** Batch ID: **72172** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **4/12/2011** SeqNo: **2149790**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	49.470	2.0	50.00	0.4004	98.1	80	120				
Arsenic	48.231	1.0	50.00	0	96.5	80	120				
Barium	52.340	1.0	50.00	0	105	80	120				
Beryllium	52.957	1.0	50.00	0	106	80	120				
Cadmium	49.010	1.0	50.00	0	98.0	80	120				
Chromium	47.664	1.0	50.00	0	95.3	80	120				
Cobalt	50.161	1.0	50.00	0	100	80	120				
Copper	51.666	2.0	50.00	0	103	80	120				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: AMEC Geomatrix
Work Order: 116888
Project: Caltrans-TO11A1, 0153240110

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **LCS-72172** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **4/12/2011** RunNo: **131976**
Client ID: **LCSS** Batch ID: **72172** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **4/12/2011** SeqNo: **2149790**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	52.839	1.0	50.00	0	106	80	120				
Nickel	49.846	1.0	50.00	0	99.7	80	120				
Selenium	45.152	1.0	50.00	0	90.3	80	120				
Silver	46.093	1.0	50.00	0	92.2	80	120				
Thallium	48.605	1.0	50.00	0	97.2	80	120				
Vanadium	52.762	1.0	50.00	0	106	80	120				
Zinc	48.598	1.0	50.00	0.1638	96.9	80	120				

Sample ID: **116888-051A-DUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **4/12/2011** RunNo: **131976**
Client ID: **1127-211-9.0** Batch ID: **72172** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **4/12/2011** SeqNo: **2149797**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.692	2.0						0.6708	0	20	J
Arsenic	1.561	1.0						2.192	33.7	20	R
Barium	158.156	1.0						172.6	8.75	20	
Beryllium	ND	1.0						0	0	20	
Cadmium	2.683	1.0						3.169	16.6	20	
Chromium	19.819	1.0						21.58	8.51	20	
Cobalt	5.831	1.0						6.699	13.9	20	
Copper	23.082	2.0						25.15	8.59	20	
Molybdenum	5.371	1.0						6.570	20.1	20	R
Nickel	33.357	1.0						38.76	15.0	20	
Selenium	ND	1.0						0	0	20	
Silver	ND	1.0						0	0	20	
Thallium	ND	1.0						0	0	20	
Vanadium	38.010	1.0						43.89	14.4	20	
Zinc	73.626	1.0						81.64	10.3	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: AMEC Geomatrix
Work Order: 116888
Project: Caltrans-TO11A1, 0153240110

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **116888-051A-MS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **4/12/2011** RunNo: **131976**
Client ID: **1127-211-9.0** Batch ID: **72172** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **4/12/2011** SeqNo: **2149798**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	76.443	2.0	125.0	0.6708	60.6	32	105				
Arsenic	82.267	1.0	125.0	2.192	64.1	49	106				
Barium	231.186	1.0	125.0	172.6	46.9	31	133				
Beryllium	88.819	1.0	125.0	0	71.1	56	106				
Cadmium	84.535	1.0	125.0	3.169	65.1	51	103				
Chromium	101.749	1.0	125.0	21.58	64.1	45	114				
Cobalt	90.799	1.0	125.0	6.699	67.3	52	106				
Copper	117.981	2.0	125.0	25.15	74.3	54	125				
Molybdenum	90.428	1.0	125.0	6.570	67.1	54	106				
Nickel	116.540	1.0	125.0	38.76	62.2	45	111				
Selenium	78.541	1.0	125.0	0	62.8	47	104				
Silver	89.707	1.0	125.0	0	71.8	56	112				
Thallium	71.799	1.0	125.0	0	57.4	46	101				
Vanadium	127.300	1.0	125.0	43.89	66.7	54	114				
Zinc	150.203	1.0	125.0	81.64	54.9	28	125				

Sample ID: **116888-051A-MSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **4/12/2011** RunNo: **131976**
Client ID: **1127-211-9.0** Batch ID: **72172** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **4/12/2011** SeqNo: **2149799**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	75.969	2.0	125.0	0.6708	60.2	32	105	76.44	0.622	20	
Arsenic	83.150	1.0	125.0	2.192	64.8	49	106	82.27	1.07	20	
Barium	235.803	1.0	125.0	172.6	50.5	31	133	231.2	1.98	20	
Beryllium	89.862	1.0	125.0	0	71.9	56	106	88.82	1.17	20	
Cadmium	84.634	1.0	125.0	3.169	65.2	51	103	84.54	0.117	20	
Chromium	102.054	1.0	125.0	21.58	64.4	45	114	101.7	0.299	20	
Cobalt	91.566	1.0	125.0	6.699	67.9	52	106	90.80	0.840	20	
Copper	118.245	2.0	125.0	25.15	74.5	54	125	118.0	0.224	20	
Molybdenum	91.171	1.0	125.0	6.570	67.7	54	106	90.43	0.818	20	
Nickel	117.562	1.0	125.0	38.76	63.0	45	111	116.5	0.874	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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CLIENT: AMEC Geomatrix
Work Order: 116888
Project: Caltrans-TO11A1, 0153240110

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **116888-051A-MSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **4/12/2011** RunNo: **131976**
Client ID: **1127-211-9.0** Batch ID: **72172** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **4/12/2011** SeqNo: **2149799**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	80.016	1.0	125.0	0	64.0	47	104	78.54	1.86	20	
Silver	90.038	1.0	125.0	0	72.0	56	112	89.71	0.369	20	
Thallium	73.085	1.0	125.0	0	58.5	46	101	71.80	1.77	20	
Vanadium	127.720	1.0	125.0	43.89	67.1	54	114	127.3	0.330	20	
Zinc	151.122	1.0	125.0	81.64	55.6	28	125	150.2	0.610	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: AMEC Geomatrix
Work Order: 116888
Project: Caltrans-TO11A1, 0153240110

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **MB-71695A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **3/21/2011** RunNo: **131276**
Client ID: **PBS** Batch ID: **71695** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **3/22/2011** SeqNo: **2137168**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-71695** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **3/21/2011** RunNo: **131276**
Client ID: **LCSS** Batch ID: **71695** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **3/22/2011** SeqNo: **2137169**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	288.904	5.0	250.0	0	116	80	120				

Sample ID: **116072-039A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **3/21/2011** RunNo: **131276**
Client ID: **ZZZZZZ** Batch ID: **71695** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **3/22/2011** SeqNo: **2137180**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.782	5.0						2.174	0	20	J

Sample ID: **116072-039A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **3/21/2011** RunNo: **131276**
Client ID: **ZZZZZZ** Batch ID: **71695** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **3/22/2011** SeqNo: **2137181**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	232.482	5.0	250.0	2.174	92.1	34	126				

Sample ID: **MB-71695B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **3/21/2011** RunNo: **131276**
Client ID: **PBS** Batch ID: **71695** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **3/22/2011** SeqNo: **2137182**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: AMEC Geomatrix
Work Order: 116888
Project: Caltrans-TO11A1, 0153240110

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **116888-010A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **3/21/2011** RunNo: **131276**
Client ID: **1127-202-5.5** Batch ID: **71695** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **3/22/2011** SeqNo: **2137193**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.416	5.0						1.436	0	20	J

Sample ID: **116888-010A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **3/21/2011** RunNo: **131276**
Client ID: **1127-202-5.5** Batch ID: **71695** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **3/22/2011** SeqNo: **2137194**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	194.771	5.0	250.0	1.436	77.3	34	126				

Sample ID: **116888-010A-MSD** SampType: **MSD** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **3/21/2011** RunNo: **131276**
Client ID: **1127-202-5.5** Batch ID: **71695** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **3/22/2011** SeqNo: **2137195**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	159.799	5.0	250.0	1.436	63.3	34	126	194.8	19.7	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: AMEC Geomatrix
Work Order: 116888
Project: Caltrans-TO11A1, 0153240110

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **MB-71697A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **3/21/2011** RunNo: **131281**
Client ID: **PBS** Batch ID: **71697** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **3/22/2011** SeqNo: **2137223**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-71697** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **3/21/2011** RunNo: **131281**
Client ID: **LCSS** Batch ID: **71697** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **3/22/2011** SeqNo: **2137224**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	254.874	5.0	250.0	0	102	80	120				

Sample ID: **116888-020A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **3/21/2011** RunNo: **131281**
Client ID: **1127-204-6.0** Batch ID: **71697** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **3/22/2011** SeqNo: **2137235**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.043	5.0						1.309	0	20	J

Sample ID: **116888-020A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **3/21/2011** RunNo: **131281**
Client ID: **1127-204-6.0** Batch ID: **71697** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **3/22/2011** SeqNo: **2137236**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	224.410	5.0	250.0	1.309	89.2	34	126				

Sample ID: **MB-71697B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **3/21/2011** RunNo: **131281**
Client ID: **PBS** Batch ID: **71697** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **3/22/2011** SeqNo: **2137237**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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CLIENT: AMEC Geomatrix
Work Order: 116888
Project: Caltrans-TO11A1, 0153240110

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **116888-030A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **3/21/2011** RunNo: **131281**
Client ID: **1127-207-6.5** Batch ID: **71697** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **3/22/2011** SeqNo: **2137248**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.840	5.0						2.044	0	20	J

Sample ID: **116888-030A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **3/21/2011** RunNo: **131281**
Client ID: **1127-207-6.5** Batch ID: **71697** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **3/22/2011** SeqNo: **2137249**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	223.177	5.0	250.0	2.044	88.5	34	126				

Sample ID: **116888-030A-MSD** SampType: **MSD** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **3/21/2011** RunNo: **131281**
Client ID: **1127-207-6.5** Batch ID: **71697** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **3/22/2011** SeqNo: **2137250**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	213.314	5.0	250.0	2.044	84.5	34	126	223.2	4.52	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: AMEC Geomatrix
Work Order: 116888
Project: Caltrans-TO11A1, 0153240110

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **MB-71698A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **3/21/2011** RunNo: **131284**
Client ID: **PBS** Batch ID: **71698** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **3/22/2011** SeqNo: **2137280**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-71698** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **3/21/2011** RunNo: **131284**
Client ID: **LCSS** Batch ID: **71698** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **3/22/2011** SeqNo: **2137281**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	260.169	5.0	250.0	0	104	80	120				

Sample ID: **116888-040A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **3/21/2011** RunNo: **131284**
Client ID: **1127-209-5.5** Batch ID: **71698** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **3/22/2011** SeqNo: **2137292**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	94.991	5.0						90.89	4.42	20	

Sample ID: **116888-040A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **3/21/2011** RunNo: **131284**
Client ID: **1127-209-5.5** Batch ID: **71698** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **3/22/2011** SeqNo: **2137293**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	306.847	5.0	250.0	90.89	86.4	34	126				

Sample ID: **MB-71698B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **3/21/2011** RunNo: **131284**
Client ID: **PBS** Batch ID: **71698** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **3/22/2011** SeqNo: **2137294**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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CLIENT: AMEC Geomatrix
Work Order: 116888
Project: Caltrans-TO11A1, 0153240110

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **116888-050A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **3/21/2011** RunNo: **131284**
Client ID: **1127-211-5.5** Batch ID: **71698** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **3/22/2011** SeqNo: **2137305**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	61.691	5.0						87.19	34.2	20	R

Sample ID: **116888-050A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **3/21/2011** RunNo: **131284**
Client ID: **1127-211-5.5** Batch ID: **71698** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **3/22/2011** SeqNo: **2137306**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	256.853	5.0	250.0	87.19	67.9	34	126				

Sample ID: **116888-050A-MSD** SampType: **MSD** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **3/21/2011** RunNo: **131284**
Client ID: **1127-211-5.5** Batch ID: **71698** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **3/22/2011** SeqNo: **2137307**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	258.779	5.0	250.0	87.19	68.6	34	126	256.9	0.747	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: AMEC Geomatrix
Work Order: 116888
Project: Caltrans-TO11A1, 0153240110

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **MB-71699A**	SampType: **MBLK**	TestCode: **6010_SPB**	Units: **mg/Kg**	Prep Date: **3/21/2011**	RunNo: **131286**
Client ID: **PBS**	Batch ID: **71699**	TestNo: **EPA 6010B**	**EPA 3050M**	Analysis Date: **3/22/2011**	SeqNo: **2137322**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-71699**	SampType: **LCS**	TestCode: **6010_SPB**	Units: **mg/Kg**	Prep Date: **3/21/2011**	RunNo: **131286**
Client ID: **LCSS**	Batch ID: **71699**	TestNo: **EPA 6010B**	**EPA 3050M**	Analysis Date: **3/22/2011**	SeqNo: **2137323**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	268.318	5.0	250.0	0	107	80	120				

Sample ID: **116892-009A-DUP**	SampType: **DUP**	TestCode: **6010_SPB**	Units: **mg/Kg**	Prep Date: **3/21/2011**	RunNo: **131286**
Client ID: **ZZZZZZ**	Batch ID: **71699**	TestNo: **EPA 6010B**	**EPA 3050M**	Analysis Date: **3/22/2011**	SeqNo: **2137333**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1061.965	5.0						550.1	63.5	20	R

Sample ID: **116892-009A-MS**	SampType: **MS**	TestCode: **6010_SPB**	Units: **mg/Kg**	Prep Date: **3/21/2011**	RunNo: **131286**
Client ID: **ZZZZZZ**	Batch ID: **71699**	TestNo: **EPA 6010B**	**EPA 3050M**	Analysis Date: **3/22/2011**	SeqNo: **2137334**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1522.873	5.0	250.0	550.1	389	34	126				S

Sample ID: **116892-009A-MSD**	SampType: **MSD**	TestCode: **6010_SPB**	Units: **mg/Kg**	Prep Date: **3/21/2011**	RunNo: **131286**
Client ID: **ZZZZZZ**	Batch ID: **71699**	TestNo: **EPA 6010B**	**EPA 3050M**	Analysis Date: **3/22/2011**	SeqNo: **2137335**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1305.591	5.0	250.0	550.1	302	34	126	1523	15.4	20	S

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: AMEC Geomatrix
Work Order: 116888
Project: Caltrans-TO11A1, 0153240110

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WPB

Sample ID: **MB-71683** SampType: **MBLK** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **3/21/2011** RunNo: **131260**
Client ID: **PBW** Batch ID: **71683** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **3/21/2011** SeqNo: **2136797**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-71683** SampType: **LCS** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **3/21/2011** RunNo: **131260**
Client ID: **LCSW** Batch ID: **71683** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **3/21/2011** SeqNo: **2136798**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.046	0.25	1.000	0	105	85	115				

Sample ID: **116888-056A-MS** SampType: **MS** TestCode: **6010_WPB** Units: **mg/L** Prep Date: RunNo: **131260**
Client ID: **1127-200-EB1** Batch ID: **71683** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **3/21/2011** SeqNo: **2136800**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.384	0.25	2.500	0	95.4	80	118				

Sample ID: **116888-056A-MSD** SampType: **MSD** TestCode: **6010_WPB** Units: **mg/L** Prep Date: RunNo: **131260**
Client ID: **1127-200-EB1** Batch ID: **71683** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **3/21/2011** SeqNo: **2136801**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.553	0.25	2.500	0	102	80	118	2.384	6.83	20	

Sample ID: **116888-064A-DUP** SampType: **DUP** TestCode: **6010_WPB** Units: **mg/L** Prep Date: RunNo: **131260**
Client ID: **1127-200-SW** Batch ID: **71683** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **3/21/2011** SeqNo: **2136810**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: AMEC Geomatrix
Work Order: 116888
Project: Caltrans-TO11A1, 0153240110

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI

Sample ID: **MB-71893A** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **4/1/2011** RunNo: **131675**
Client ID: **PBS** Batch ID: **71893** TestNo: **WET DI/ EPA WET** Analysis Date: **4/4/2011** SeqNo: **2144008**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-71893** SampType: **LCS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **4/1/2011** RunNo: **131675**
Client ID: **LCSS** Batch ID: **71893** TestNo: **WET DI/ EPA WET** Analysis Date: **4/4/2011** SeqNo: **2144009**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.100	0.25	5.000	0	102	80	120				

Sample ID: **116888-048A-DUP** SampType: **DUP** TestCode: **7420_DI** Units: **mg/L** Prep Date: **4/1/2011** RunNo: **131675**
Client ID: **1127-210-10.0** Batch ID: **71893** TestNo: **WET DI/ EPA WET** Analysis Date: **4/4/2011** SeqNo: **2144014**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25						0	0	20	

Sample ID: **116888-048A-MS** SampType: **MS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **4/1/2011** RunNo: **131675**
Client ID: **1127-210-10.0** Batch ID: **71893** TestNo: **WET DI/ EPA WET** Analysis Date: **4/4/2011** SeqNo: **2144015**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.117	0.25	5.000	0	102	70	130				

Sample ID: **116888-048A-MSD** SampType: **MSD** TestCode: **7420_DI** Units: **mg/L** Prep Date: **4/1/2011** RunNo: **131675**
Client ID: **1127-210-10.0** Batch ID: **71893** TestNo: **WET DI/ EPA WET** Analysis Date: **4/4/2011** SeqNo: **2144016**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.172	0.25	5.000	0	103	70	130	5.117	1.08	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: AMEC Geomatrix
Work Order: 116888
Project: Caltrans-TO11A1, 0153240110

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID: **MB-71747A** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **3/23/2011** RunNo: **131439**
Client ID: **PBS** Batch ID: **71747** TestNo: **WET/ EPA 74 WET** Analysis Date: **3/25/2011** SeqNo: **2139749**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-71747** SampType: **LCS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **3/23/2011** RunNo: **131439**
Client ID: **LCSS** Batch ID: **71747** TestNo: **WET/ EPA 74 WET** Analysis Date: **3/25/2011** SeqNo: **2139750**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.689	0.25	5.000	0	93.8	80	120				

Sample ID: **116888-051A-DUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **3/23/2011** RunNo: **131439**
Client ID: **1127-211-9.0** Batch ID: **71747** TestNo: **WET/ EPA 74 WET** Analysis Date: **3/25/2011** SeqNo: **2139757**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.383	0.25						4.413	0.673	20	

Sample ID: **116888-051A-MS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **3/23/2011** RunNo: **131439**
Client ID: **1127-211-9.0** Batch ID: **71747** TestNo: **WET/ EPA 74 WET** Analysis Date: **3/25/2011** SeqNo: **2139758**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	9.628	0.50	5.000	4.413	104	80	120				

Sample ID: **116888-051A-MSD** SampType: **MSD** TestCode: **7420_ST** Units: **mg/L** Prep Date: **3/23/2011** RunNo: **131439**
Client ID: **1127-211-9.0** Batch ID: **71747** TestNo: **WET/ EPA 74 WET** Analysis Date: **3/25/2011** SeqNo: **2139759**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	9.652	0.50	5.000	4.413	105	80	120	9.628	0.242	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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CLIENT: AMEC Geomatrix
Work Order: 116888
Project: Caltrans-TO11A1, 0153240110

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: **MB-72200** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **4/13/2011** RunNo: **132002**
Client ID: **PBS** Batch ID: **72200** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **4/13/2011** SeqNo: **2150242**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **MB-72187A TCLP** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **4/13/2011** RunNo: **132002**
Client ID: **PBS** Batch ID: **72200** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **4/13/2011** SeqNo: **2150243**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-72200** SampType: **LCS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **4/13/2011** RunNo: **132002**
Client ID: **LCSS** Batch ID: **72200** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **4/13/2011** SeqNo: **2150244**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.152	0.25	1.000	0	115	80	120				

Sample ID: **116888-040A-DUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **4/13/2011** RunNo: **132002**
Client ID: **1127-209-5.5** Batch ID: **72200** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **4/13/2011** SeqNo: **2150246**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25						0	0	20	

Sample ID: **116888-040A-MS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **4/13/2011** RunNo: **132002**
Client ID: **1127-209-5.5** Batch ID: **72200** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **4/13/2011** SeqNo: **2150247**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.443	0.25	2.500	0	97.7	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: AMEC Geomatrix
Work Order: 116888
Project: Caltrans-TO11A1, 0153240110

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: **116888-040A-MSD** SampType: **MSD** TestCode: **7420_TC** Units: **mg/L** Prep Date: **4/13/2011** RunNo: **132002**
Client ID: **1127-209-5.5** Batch ID: **72200** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **4/13/2011** SeqNo: **2150248**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.441	0.25	2.500	0	97.6	70	130	2.443	0.0693	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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CLIENT: AMEC Geomatrix
Work Order: 116888
Project: Caltrans-TO11A1, 0153240110

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: **MB-72258** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **4/15/2011** RunNo: **132071**
Client ID: **PBS** Batch ID: **72258** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **4/15/2011** SeqNo: **2151248**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **MB-72244A TCLP** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **4/15/2011** RunNo: **132071**
Client ID: **PBS** Batch ID: **72258** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **4/15/2011** SeqNo: **2151249**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-72258** SampType: **LCS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **4/15/2011** RunNo: **132071**
Client ID: **LCSS** Batch ID: **72258** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **4/15/2011** SeqNo: **2151250**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.957	0.25	1.000	0	95.7	80	120				

Sample ID: **116888-045A-DUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **4/15/2011** RunNo: **132071**
Client ID: **1127-210-5.5** Batch ID: **72258** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **4/15/2011** SeqNo: **2151252**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.346	0.25						0.3085	11.5	20	

Sample ID: **116888-045A-MS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **4/15/2011** RunNo: **132071**
Client ID: **1127-210-5.5** Batch ID: **72258** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **4/15/2011** SeqNo: **2151253**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.179	0.25	2.500	0.3085	115	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: AMEC Geomatrix
Work Order: 116888
Project: Caltrans-TO11A1, 0153240110

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: **116888-045A-MSD** SampType: **MSD** TestCode: **7420_TC** Units: **mg/L** Prep Date: **4/15/2011** RunNo: **132071**
Client ID: **1127-210-5.5** Batch ID: **72258** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **4/15/2011** SeqNo: **2151254**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.240	0.25	2.500	0.3085	117	70	130	3.179	1.92	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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CLIENT: AMEC Geomatrix
Work Order: 116888
Project: Caltrans-TO11A1, 0153240110

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

Sample ID: **MB-72176** SampType: **MBLK** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **4/12/2011** RunNo: **131987**
Client ID: **PBS** Batch ID: **72176** TestNo: **EPA 7471A** Analysis Date: **4/12/2011** SeqNo: **2150088**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: **LCS-72176** SampType: **LCS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **4/12/2011** RunNo: **131987**
Client ID: **LCSS** Batch ID: **72176** TestNo: **EPA 7471A** Analysis Date: **4/12/2011** SeqNo: **2150089**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.837	0.10	0.8300	0	101	80	120				

Sample ID: **116888-051A-MS** SampType: **MS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **4/12/2011** RunNo: **131987**
Client ID: **1127-211-9.0** Batch ID: **72176** TestNo: **EPA 7471A** Analysis Date: **4/12/2011** SeqNo: **2150090**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.875	0.10	0.8300	0.04660	99.9	70	130				

Sample ID: **116888-051A-MSD** SampType: **MSD** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **4/12/2011** RunNo: **131987**
Client ID: **1127-211-9.0** Batch ID: **72176** TestNo: **EPA 7471A** Analysis Date: **4/12/2011** SeqNo: **2150091**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.874	0.10	0.8300	0.04660	99.7	70	130	0.8755	0.180	20	

Sample ID: **116888-051A-DUP** SampType: **DUP** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **4/12/2011** RunNo: **131987**
Client ID: **1127-211-9.0** Batch ID: **72176** TestNo: **EPA 7471A** Analysis Date: **4/12/2011** SeqNo: **2150093**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.046	0.10						0.04660	0	20	J

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: AMEC Geomatrix
Work Order: 116888
Project: Caltrans-TO11A1, 0153240110

ANALYTICAL QC SUMMARY REPORT

TestCode: 9045_S

Sample ID: **116778-054ADUP** SampType: **DUP** TestCode: **9045_S** Units: **pH Units** Prep Date: RunNo: **131200**
Client ID: **ZZZZZZ** Batch ID: **R131200** TestNo: **EPA 9045C** Analysis Date: **3/18/2011** SeqNo: **2135856**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	8.300	0.10						8.240	0.726	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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APPENDIX D

BORING 1127-101

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Puente Avenue (10 Fwy) Los Angeles County, California

Excavation Date: January 24, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Mike Akoto
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground with grass **Description**
			0	**SP**	Sand with Gravel, dark brown (10YR 3/3), slightly moist, fine-grained, fine-gravel, 15% fines, no plasticity.
			1		
G	1127-101-2.0	1004	**2**		
			3		
G	1127-101-4.0	1021	**4**	**SP**	Sand, dark brown (10YR 3/3), slightly moist, fine-grained, 10% fines, some fine-gravel, no plasticity.
			5		
G	1127-101-6.0	1042	**6**	**SP**	Sand with Gravel, dark brown (10YR 3/3), slightly moist, fine-grained, 10% fines, fine-gravel, no plasticity.
			7		
			8		Refusal at 7.5 feet on gravel.
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-102

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Puente Avenue (10 Fwy) Los Angeles County, California

Excavation Date: January 24, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Mike Akoto
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground with grass **Description**
			0 --	**SM**	Silty Sand, very dark gray (10YR 3/1), slightly moist, fine-grained, 15% fines, some fine-gravel, no plasticity.
			1 --		
G	1127-102-2.0	0909	**2** --		
			3 --		
G	1127-102-4.0	0916	**4** --	**SM**	Silty Sand, very dark gray (10YR 3/1), slightly moist, fine-grained, 15% fines, some fine-gravel, no plasticity.
			5 --		
G	1127-102-6.0	0933	**6** --	**SM**	Silty Sand, very dark gray (10YR 3/1), slightly moist, fine-grained, 15% fines, some fine-gravel, no plasticity.
			7 --		Refusal at 6 feet on gravel.
			8 --		
			9 --		
			10 --		
			11 --		
			12 --		
			13 --		
			14 --		
			15 --		
			16 --		
			17 --		
			18 --		
			19 --		
			20 --		

G - Grab Sample

BORING 1127-103

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Puente Avenue (10 Fwy) Los Angeles County, California

Excavation Date: January 24, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Mike Akoto
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Grass and shrubs **Description**
			0	**ML**	Sandy Silt, very dark gray (10YR 3/1), slightly moist, fine-grained, 20% fines, no plasticity.
G	1127-103-1.0	0805	**1**		
G	1127-103-2.0	1112	**2**	**SP-SM**	Sand with Silt and Gravel, very dark gray (10YR 3/1), slightly moist, fine- to coarse-gravel, 10% fines, few cobbles, no plasticity.
			3		Refusal at 2 feet on gravel. Sample at 1 foot was collected on 1/25/2011. Sample at 2 feet was collected on 1/24/2011.
			4		
			5		
			6		
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-104

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Puente Avenue (10 Fwy) Los Angeles County, California

Excavation Date: January 24, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Mike Akoto
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground and grass **Description**
			0	**SM**	Silty Sand, dark gray (10YR 4/1), slightly moist, fine-grained, some gravel, 30% fines, no plasticity.
			1		
G	1127-104-2.0	1211	**2**		
			3		
G	1127-104-4.0	1227	**4**	**SP**	Sand, poorly graded, dark brown (10YR 3/4), slightly moist, fine-grained, some gravel, 10% fines, no plasticity.
			5		Refusal at 4 feet on gravel.
			6		
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-105

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Cameron Avenue (10 Fwy) Los Angeles County, California

Excavation Date: January 24, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Mike Akoto
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**ML**	Sandy Silt, dark gray (7.5YR 4/1), slightly moist, fine-grained, some gravel, 15% fines, few cobbles, no plasticity.
			1		
G	1127-105-2.0	1354	**2**		
			3		
G	1127-105-4.0	1400	**4**	**ML**	Sandy Silt with Gravel, very dark gray (7.5YR 3/1), slightly moist, fine- to coarse-grained, 20% fines, few cobbles, no plasticity.
			5		Refusal at 4.5 feet on gravel.
			6		
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-106

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Cameron Avenue (10 Fwy) Los Angeles County, California

Excavation Date: January 24, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Mike Akoto
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground with grass **Description**
			0	**SM**	Silty Sand, dark brown (7.5YR 3/2), slightly moist, fine- to medium-grained, some gravel, 15% fines, no plasticity.
			1		
G	1127-106-2.0	1327	**2**		
			3		
G	1127-106-4.0	1331	**4**	**SM**	Silty Sand, dark brown (7.5/YR 3/2), slightly moist, fine-grained, 15% fines, some gravel, no plasticity.
			5		Refusal at 4 feet on gravel.
			6		
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-107

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Cameron Avenue (10 Fwy) Los Angeles County, California

Excavation Date: January 24, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Mike Akoto
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground/Grass **Description**
			0	**SP**	Sand, dark brown (7.5YR 3/3), slightly moist, fine- to coarse-grained, some fine-gravel, 10% fines, no plasticity.
			1		
G	1127-107-2.0	1426	**2**		
			3		
G	1127-107-4.0	1430	**4**	**ML**	Sandy Silt, dark brown (7.5YR 3/2), slightly moist, fine-grained, some fine-gravel, 20% fines, no plasticity.
			5		
G	1127-107-6.0	1450	**6**	**SP**	Sand, poorly graded, very dark gray (7.5 YR 3/1), slightly moist, fine-grained, some fine-gravel, 5% fines, few cobbles, no plasticity.
			7		
			8		
G	1127-107-9.0	1509	**9**	**SP**	Sand, poorly graded, brown (7.5YR 5/3), slightly moist, fine- to coarse-grained, 5% fines, no plasticity.
			10		End at 9 feet.
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-109

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Pacific Avenue (10 Fwy) Los Angeles County, California

Excavation Date: January 24, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Cesar Larios
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0 --	**SP**	Sand, poorly graded, brown (10YR 4/3), loose, moist, fine- to medium-grained, trace fine-gravel, 5% fines, no plasticity.
			-		
			1 --		
			-		
G	1127-109-2.0	0905	**2** --		
			-		
			3 --		
			-		
G	1127-109-4.0	0910	**4** --	**SP**	Sand, poorly graded, brown (10YR 4/3), loose, moist, fine- to medium-grained, trace fine-gravel, 5% fines, no plasticity.
			-		
			5 --		
			-		
G	1127-109-6.0	0915	**6** --	**SP**	Sand, poorly graded, brown (10YR 4/3), loose, moist, fine-grained, trace fine-gravel, 5% fines, no plasticity.
			-		
			7 --		End at 6 feet.
			-		
			8 --		
			-		
			9 --		
			-		
			10 --		
			-		
			11 --		
			-		
			12 --		
			-		
			13 --		
			-		
			14 --		
			-		
			15 --		
			-		
			16 --		
			-		
			17 --		
			-		
			18 --		
			-		
			19 --		
			-		
			20 --		

G - Grab Sample

BORING 1127-110

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Pacific Avenue (10 Fwy) Los Angeles County, California

Excavation Date: January 24, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Cesar Larios
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0 --	**SM**	Silty Sand, brown (10YR 4/3), loose, moist, fine- to medium-grained with trace coarse-grained, 30% fines, trace fine- to coarse-gravel.
G	1127-110-1.0	0818	**1** --		
G	1127-110-2.0	0945	**2** --	**SM**	Silty Sand, brown (10YR 4/3), loose, moist, fine- to medium-grained, 30% fines, some fine- to coarse-gravel.
			3 --		Refusal at 3 feet on gravel. Sample at 1 foot was collected on 1/25/2011. Sample at 2 feet was collected on 1/24/2011.
			4 --		
			5 --		
			6 --		
			7 --		
			8 --		
			9 --		
			10 --		
			11 --		
			12 --		
			13 --		
			14 --		
			15 --		
			16 --		
			17 --		
			18 --		
			19 --		
			20 --		

G - Grab Sample

BORING 1127-111

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Pacific Avenue (10 Fwy) Los Angeles County, California

Excavation Date: January 24, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Cesar Larios
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0 --	**SM**	Silty Sand, brown (10YR 5/3), loose, moist, fine- to medium-grained with trace coarse-grained, some fine- to coarse-gravel, 30% fines, trace rootlets, no plasticity.
G	1127-111-1.0	0850	**1** --		
G	1127-111-2.0	1046	**2** --	**SM**	Silty Sand, brown (10YR 5/3), loose, moist, fine- to medium-grained, abundant fine-gravel, 20% fines, no plasticity.
			3 --		Refusal at 3 feet on gravel. Sample at 1 foot was collected on 1/25/2011. Sample at 2 feet was collected on 1/24/2011.
			4 --		
			5 --		
			6 --		
			7 --		
			8 --		
			9 --		
			10 --		
			11 --		
			12 --		
			13 --		
			14 --		
			15 --		
			16 --		
			17 --		
			18 --		
			19 --		
			20 --		

G - Grab Sample

BORING 1127-112

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Pacific Avenue (10 Fwy) Los Angeles County, California

Excavation Date: January 24, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Cesar Larios
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0 --	**SM**	Silty Sand, brown (10YR 4/3), loose, moist, fine- to medium-grained, 30% fines, some fine- to coarse-gravel, some roots and rootlets.
G	1127-112-1.0	0840	**1** --		
G	1127-112-2.0	1027	**2** --	**SM**	Silty Sand, brown (10YR 4/3), loose, moist, fine- to medium-grained, 30% fines, some fine- to coarse-gravel.
			3 --		Refusal at 3 feet on gravel. Sample at 1 foot was collected on 1/25/2011. Sample at 2 feet was collected on 1/24/2011.
			4 --		
			5 --		
			6 --		
			7 --		
			8 --		
			9 --		
			10 --		
			11 --		
			12 --		
			13 --		
			14 --		
			15 --		
			16 --		
			17 --		
			18 --		
			19 --		
			20 --		

G - Grab Sample

BORING 1127-113

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Vincent Avenue (10 Fwy) Los Angeles County, California

Excavation Date: January 24, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Cesar Larios
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0 --	**SM**	Silty Sand, brown (10YR 4/3), loose, moist, fine-grained with trace medium- to coarse-grained, 20% fines, some fine- to coarse-gravel, no plasticity.
G	1127-113-1.0	1155	**1** --		
G	1127-113-2.0	0908	**2** --	**SM**	Silty Sand, brown (2.5YR 4/4), loose, moist, fine- to medium-grained with trace coarse-grained, 30% fines, some fine- to coarse-gravel, no plasticity.
			3 --		Refusal at 2.5 feet on gravel.
			4 --		Sample at 1 foot was collected on 1/24/2011.
					Sample at 2 feet was collected on 1/25/2011.
			5 --		
			6 --		
			7 --		
			8 --		
			9 --		
			10 --		
			11 --		
			12 --		
			13 --		
			14 --		
			15 --		
			16 --		
			17 --		
			18 --		
			19 --		
			20 --		

G - Grab Sample

BORING 1127-114

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Vincent Avenue (10 Fwy) Los Angeles County, California

Excavation Date: January 24, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Cesar Larios
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**SM**	Silty Sand, brown (10YR 4/3), loose, moist, fine-grained with trace coarse-grained, 20% fines, trace fine-gravel, no plasticity.
G	1127-114-1.0	1207	**1**		
			2		
G	1127-114-3.0	1211	**3**	**SM**	Silty Sand, brown (10YR 4/3), loose, moist, fine-grained with trace coarse-grained, 30% fines, trace fine-gravel, trace clay content, low plasticity.
			4		Refusal at 4 feet on gravel.
			5		
			6		
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-115

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Vincent Avenue (10 Fwy) Los Angeles County, California

Excavation Date: January 24, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Cesar Larios
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**SM**	Silty Sand, yellowish brown (10YR 5/6), loose, moist, fine-grained, 20% fines, no plasticity.
G	1127-115-1.0	1256	**1**		
			2		
G	1127-115-3.0	1258	**3**	**SM**	Silty Sand, yellowish brown (10YR 5/6), loose, moist, fine-grained, 20% fines, no plasticity.
			4		Refusal at 4 feet on gravel.
			5		
			6		
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-116

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Vincent Avenue (10 Fwy) Los Angeles County, California

Excavation Date: January 24, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Cesar Larios
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**SC**	Sandy Clay, brown, (10YR 5/3), firm, moist, fine-grained, 30% fines, fine- to coarse-gravel, moderate plasticity.
G	1127-116-1.0	1230	**1**		
			2		
G	1127-116-3.0	1232	**3**	**ML**	Sandy Silt, yellowish brown, (10YR 5/6), loose, moist, fine-grained, 60% fines, fine- to coarse-gravel, low plasticity.
			4		
G	1127-116-5.0	1236	**5**	**SM**	Silty Sand, yellowish brown, (10YR 5/6), loose, moist, fine-grained, fine- to coarse-gravel, 30 % fines, no plasticity.
			6		End at 5 feet.
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-117

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Lark Ellen (10 Fwy) Los Angeles County, California

Excavation Date: January 25, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Mike Akoto
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Grass and shrubs **Description**
			0	**ML**	Sandy Silt, dark reddish brown (5YR 3/3), slightly moist, fine-grained, 60% fines, trace fine-gravel, no plasticity.
			1		
G	1127-117-2.0	0920	**2**		
			3		
G	1127-117-4.0	0928	**4**	**ML**	Sandy Silt, dark reddish brown (5YR 3/4), slightly moist, fine-grained, 60% fines, trace fine-gravel, no plasticity.
			5		
G	1127-117-6.0	0936	**6**	**ML**	Sandy Silt, dark reddish brown, (5YR 3/4), slightly moist, fine-grained, 60% fines, some fine-gravel, no plasticity.
			7		End at 6 feet.
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-118

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Lark Ellen (10 Fwy) Los Angeles County, California

Excavation Date: January 25, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Mike Akoto
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**ML**	Sandy Silt with Gravel, dark brown (7.5YR 3/3), slightly moist, fine- to coarse-grained, 65% fines, few cobbles, no plasticity.
			1		
G	1127-118-2.0	1015	**2**		
			3		
G	1127-118-4.0	1024	**4**	**ML**	Sandy Silt, dark brown (7.5YR 3/3), slightly moist, fine- to coarse-grained, some fine-gravel, 60% fines, no plasticity.
			5		Refusal at 4.5 feet on gravel.
			6		
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-119

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Lark Ellen (10 Fwy) Los Angeles County, California

Excavation Date: January 25, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Mike Akoto
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Grass and shrubs **Description**
			0	**ML**	Sandy Silt, very dark gray (5YR 3/1), slightly moist, fine-grained, some gravel, 70% fines, no plasticity.
			1		
G	1127-119-2.0	0850	**2**		
			3		
G	1127-119-4.0	0922	**4**	**SP**	Sand with Gravel, poorly graded, dark gray (5YR 4/1), slightly moist, fine-grained, 5% fines, fine- to coarse-gravel, no plasticity.
			5		Refusal at 4 feet on gravel.
			6		
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-120

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Lark Ellen (10 Fwy) Los Angeles County, California

Excavation Date: January 25, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Mike Akoto
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**ML**	Sandy Silt, strong brown (7.5YR 5/8), slightly moist, fine-grained, 60% fines, some fine-gravel, no plasticity.
			1		
G	1127-120-2.0	1013	**2**		
			3		
G	1127-120-4.0	1040	**4**	**ML**	Sandy Silt with Gravel, strong brown (7.5YR 5/6), slightly moist, fine-grained, 55% fines, fine- to coarse-gravel, no plasticity.
			5		Refusal at 4.5 feet on gravel.
			6		
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-121

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Lark Ellen (10 Fwy) Los Angeles County, California

Excavation Date: January 25, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Mike Akoto
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**ML**	Sandy Silt, dark brown (7.5YR 3/3), slightly moist, fine-grained, 60% fines, no plasticity.
			1		
G	1127-121-2.0	1331	**2**		
			3		
			4		
G	1127-121-5.0	1335	**5**	**ML**	Sandy Silt, dark brown (7.5YR 3/4), slightly moist, fine-grained, some gravel, 70% fines, no plasticity.
			6		
G	1127-121-7.0	1355	**7**	**ML**	Sandy Silt, dark brown (7.5YR 3/4), slightly moist, fine-grained, 60% fines, no plasticity.
			8		
			9		
G	1127-121-10.0	1400	**10**	**ML**	Sandy Silt, brown (7.5YR 5/4), slightly moist, fine-grained, 70% fines, no plasticity.
			11		Ends at 10 feet.
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-122

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Lark Ellen (10 Fwy) Los Angeles County, California

Excavation Date: January 25, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Mike Akoto
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**ML**	Sandy Silt, dark brown (7.5YR 3/3), slightly moist, fine-grained, 60% fines, some rootlets, no plasticity.
			1		
G	1127-122-2.0	1137	**2**		
			3		
			4		
G	1127-122-5.0	1150	**5**	**ML**	Sandy Silt, brown (7.5YR 5/4), slightly moist, fine-grained, some gravel, 60% fines, no plasticity.
			6		Refusal at 6 feet on gravel.
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-123

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Lark Ellen (10 Fwy) Los Angeles County, California

Excavation Date: January 25, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Mike Akoto
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**ML**	Sandy Silt, very dark gray (7.5YR 3/1), slightly moist, fine-grained, 60% fines, no plasticity.
			1		
G	1127-123-2.0	1329	**2**		
			3		
G	1127-123-4.0	1335	**4**	**ML**	Sandy Silt, strong brown (7.5YR 5/8), slightly moist, fine-grained, 60% fines, no plasticity.
			5		
G	1127-123-6.0	1340	**6**	**ML**	Sandy Silt, strong brown (7.5YR 5/6), slightly moist, fine-grained, 65% fines, some fine-gravel, no plasticity.
			7		End at 6 feet.
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-124

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Lark Ellen (10 Fwy) Los Angeles County, California

Excavation Date: January 25, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Mike Akoto
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**SM**	Silty Sand, dark brown (7.5YR 3/3), slightly moist, fine-grained, 15% fines, trace fine-gravel, no plasticity.
			1		
G	1127-124-2.0	1138	**2**		
			3		
G	1127-124-4.0	1145	**4**	**SM**	Silty Sand with Gravel, dark brown (7.5YR 3/3), slightly moist, fine-grained, fine-gravel, 15% fines, no plasticity.
			5		
G	1127-124-6.0	1154	**6**	**ML**	Sandy Silt, dark brown (7.5YR 3/3), slightly moist, fine-grained, 15% fines, some fine-gravel, few cobbles, no plasticity.
			7		End at 6 feet.
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-125

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Azusa Avenue (10 Fwy) Los Angeles County, California

Excavation Date: January 24, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Cesar Larios
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0 --	**SM**	Silty Sand with Gravel, reddish brown (2.5YR 4/4), loose, moist, fine- to medium-grained, 30% fines, fine- to coarse-gravel, no plasticity.
G	1127-125-1.0	0945	**1** --		
G	1127-125-2.0	1330	**2** --	**SM**	Silty Sand with Gravel, reddish brown (2.5YR 4/4), loose, moist, fine- to medium-grained, 30% fines, fine- to coarse-gravel, no plasticity.
			3 --		Refusal at 2.5 feet on gravel.
			4 --		Sample at 1 foot was collected on 1/25/2011.
					Sample at 2 feet was collected on 1/24/2011.
			5 --		
			6 --		
			7 --		
			8 --		
			9 --		
			10 --		
			11 --		
			12 --		
			13 --		
			14 --		
			15 --		
			16 --		
			17 --		
			18 --		
			19 --		
			20 --		

G - Grab Sample

BORING 1127-126

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Azusa Avenue (10 Fwy) Los Angeles County, California

Excavation Date: January 24, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Cesar Larios
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0 --	**SM**	Silty Sand, brown (10YR 5/3), loose, moist, fine- to medium-grained, 20% fines, abundant fine- to coarse-gravel, some concrete fragments, no plasticity.
G	1127-126-1.0	0958	**1** --		
G	1127-126-2.0	1348	**2** --	**SM**	Silty Sand, brown (10YR 5/3), loose, moist, fine- to medium-grained, 20% fines, abundant fine- to coarse-gravel, some concrete fragments, no plasticity.
			3 --		Refusal at 3.0 feet on coarse gravel. Sample at 1 foot was collected on 1/25/2011. Sample at 2 feet was collected on 1/24/2011.
			4 --		
			5 --		
			6 --		
			7 --		
			8 --		
			9 --		
			10 --		
			11 --		
			12 --		
			13 --		
			14 --		
			15 --		
			16 --		
			17 --		
			18 --		
			19 --		
			20 --		

G - Grab Sample

BORING 1127-127

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Azusa Avenue (10 Fwy) Los Angeles County, California

Excavation Date: January 24, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Cesar Larios
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0 --	**SM**	Silty Sand, brown (10YR 5/3), loose, moist, fine- to medium-grained, 30% fines some fine- to coarse-gravel, some rootlets, no plasticity.
G	1127-127-1.0	1030	**1** --		
G	1127-127-2.0	1450	**2** --	**SM**	Silty Sand, brown (10YR 5/3), loose, moist, fine- to medium-grained, 30% fines, abundant fine- to coarse-gravel, no plasticity, some concrete and asphalt fragments.
			3 --		Refusal at 2.5 feet on gravel. Sample at 1 foot was collected on 1/25/2011. Sample at 2 feet was collected on 1/24/2011.
			4 --		
			5 --		
			6 --		
			7 --		
			8 --		
			9 --		
			10 --		
			11 --		
			12 --		
			13 --		
			14 --		
			15 --		
			16 --		
			17 --		
			18 --		
			19 --		
			20 --		

G - Grab Sample

BORING 1127-128

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Azusa Avenue (10 Fwy) Los Angeles County, California

Excavation Date: January 24, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Cesar Larios
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0 --	**SM**	Silty Sand, dark brown (10YR 3/3), loose, moist, fine- to medium-grained, 30% fines, trace fine-gravel, some root and rootlets, no plasticity.
G	1127-128-1.0	1017	**1** --		
G	1127-128-2.0	1403	**2** --	**SM**	Silty Sand, reddish brown (2.5YR 4/4), loose, moist, fine-grained, 20% fines, trace fine-gravel, no plasticity.
			3 --		Refusal at 2.5 feet on gravel.
			4 --		Sample at 1 foot was collected on 1/25/2011.
					Sample at 2 feet was collected on 1/24/2011.
			5 --		
			6 --		
			7 --		
			8 --		
			9 --		
			10 --		
			11 --		
			12 --		
			13 --		
			14 --		
			15 --		
			16 --		
			17 --		
			18 --		
			19 --		
			20 --		

G - Grab Sample

BORING 1127-129

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Hollenbeck Street (10 Fwy) Los Angeles County, California

Excavation Date: January 26, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Mike Akoto
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**ML**	Sandy Silt, dark brown (10YR 3/3), slightly moist, fine-grained, 60% fines, some fine-gravel, some rootlets, no plasticity.
G	1127-129-1.0	0830	**1**		
G	1127-129-2.0	0814	**2**	**ML**	Sandy Silt, dark yellowish brown (10YR 4/4), slightly moist, fine-grained, 60% fines, some fine-gravel, some rootlets, no plasticity.
			3		
			4		Refusal at 4.0 feet on gravel.
			5		
			6		
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-130

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Hollenbeck Street (10 Fwy) Los Angeles County, California

Excavation Date: January 26, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Mike Akoto
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**ML**	Sandy Silt, dark brown (7.5YR 3/3), slightly moist, fine-grained, 60% fines, no plasticity.
			1		
G	1127-130-2.0	0900	**2**		
			3		
			4		
G	1127-130-5.0	0906	**5**	**ML**	Sandy Silt, dark brown (7.5YR 3/3), slightly moist, fine-grained, 60% fines, no plasticity.
			6		
G	1127-130-7.0	0918	**7**	**ML**	Sandy Silt, brown (7.5YR 4/3), slightly moist, fine-grained, 60 % fines, some fine-gravel, no plasticity.
			8		
			9		
G	1127-130-10.0	0925	**10**	**SP**	Sand, poorly graded, brown (7.5YR 5/2), slightly moist, fine-grained, 5% fines, some gravel, few cobbles, no plasticity.
			11		Ends at 10 feet.
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-131

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Hollenbeck Street (10 Fwy) Los Angeles County, California

Excavation Date: January 31, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Mike Akoto
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**SM**	Silty Sand, dark grayish brown (10YR 4/2), slightly moist, fine-grained, some fine-gravel, 20% fines, no plasticity, some rootlets.
G	1127-131-1.0	1719	**1**		
G	1127-131-2.0	1724	**2**	**SM**	Silty Sand with Gravel, dark gray (10YR 4/1), slightly moist, fine-grained, fine-gravel, 10% fines, few cobbles, no plasticity.
			3		
			4		
			5		Refusal at 4.5 feet on gravel.
			6		
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-132

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Hollenbeck Street (10 Fwy) Los Angeles County, California

Excavation Date: January 26, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Mike Akoto
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**SM**	Silty Sand, very dark gray (7.5YR 3/1), slightly moist, fine- to coarse-grained, 20% fines, some gravel, few cobbles, no plasticity.
			1		
G	1127-132-2.0	0905	**2**		
			3		
			4		
G	1127-132-5.0	0917	**5**	**SM**	Silty Sand, very dark gray (7.5YR 3/1), slightly moist, fine-grained, 20% fines, some gravel, few cobbles, no plasticity.
			6		Refusal at 5.5 feet on gravel.
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-133

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Hollenbeck Street (10 Fwy) Los Angeles County, California

Excavation Date: January 26, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Mike Akoto
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**SM**	Silty Sand, dark grayish brown (10YR 3/1), slightly moist, fine-grained, 20% fines, some gravel, some root and rootlets, no plasticity.
G	1127-133-1.0	1150	**1**		
G	1127-133-2.0	1144	**2**	**SM**	Silty Sand with Gravel, dark brown (10YR 4/1), slightly moist, fine- to coarse-grained, 20% fines, few cobbles, no plasticity.
			3		Refusal at 2.5 feet on gravel.
			4		
			5		
			6		
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-134

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Hollenbeck Street (10 Fwy) Los Angeles County, California

Excavation Date: January 26, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Mike Akoto
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0 --	**SM**	Silty Sand, very dark gray (7.5YR 3/1), slightly moist, fine-grained, some fine-gravel, 10% fines, no plasticity.
			-		
			1 --		
			-		
G	1127-134-2.0	1007	**2** --		
			-		
			3 --		
			-		
			4 --		
			-		
G	1127-134-5.0	1033	**5** --	**SM**	Silty Sand, brown (7.5YR 4/2), slightly moist, fine- to coarse-grained, 10% fines, some fine-gravel, no plasticity.
			-		
			6 --		Refusal at 5.5 feet on gravel.
			-		
			7 --		
			-		
			8 --		
			-		
			9 --		
			-		
			10 --		
			-		
			11 --		
			-		
			12 --		
			-		
			13 --		
			-		
			14 --		
			-		
			15 --		
			-		
			16 --		
			-		
			17 --		
			-		
			18 --		
			-		
			19 --		
			-		
			20 --		

G - Grab Sample

BORING 1127-135

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Hollenbeck Street (10 Fwy) Los Angeles County, California

Excavation Date: January 26, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Mike Akoto
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**SM**	Silty Sand, very dark gray (10YR 3/1), slightly moist, fine- to coarse-grained, some fine-gravel, 20% fines, no plasticity.
G	1127-135-1.0	1142	**1**		
G	1127-135-2.0	1116	**2**	**ML**	Sandy Silt with Gravel, very dark grayish brown (10YR 3/2), slightly moist, fine- to coarse-grained, some fine-gravel, 60% fines, some rootlets, no plasticity.
			3		Refusal at 3 feet on gravel.
			4		
			5		
			6		
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-136

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Hollenbeck Street (10 Fwy) Los Angeles County, California

Excavation Date: January 26, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Mike Akoto
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**SM**	Silty Sand with Gravel, very dark gray (7.5YR 3/1), slightly moist, fine-grained, 20% fines, fine-gravel, some rootlets, no plasticity.
			1		
G	1127-136-2.0	1012	**2**		
			3		
			4		
G	1127-136-5.0	1045	**5**	**ML**	Sandy Silt with Gravel, very dark gray (7.5YR 3/1), slightly moist, fine- to medium-grained, 60% fines, no plasticity.
			6		Refusal at 5.5 feet on gravel.
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-137

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Citrus Street (10 Fwy) Los Angeles County, California

Excavation Date: January 26, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Mike Akoto
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**ML**	Clayey Silt, brown (10YR 4/3), slightly moist, fine-grained, 90% fines, low to moderate plasticity.
			1		
G	1127-137-2.0	1320	**2**		
			3		
G	1127-137-4.0	1329	**4**	**ML**	Clayey Silt, dark brown (10YR 3/2), slightly moist, fine-grained, 90% fines, some organics, low plasticity.
			5		
G	1127-137-6.0	1402	**6**	**SP**	Sand, poorly graded, brown (10YR 4/4), slightly moist, fine-grained, some gravel, 5% fines, no plasticity.
			7		
			8		
G	1127-137-9.0	1413	**9**	**ML**	Sandy Silt, brown (10YR 4/3), slightly moist, fine-grained, 60% fines, no plasticity.
			10		Ends at 9 feet.
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-138

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Citrus Street (10 Fwy) Los Angeles County, California

Excavation Date: January 26, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Mike Akoto
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**ML**	Sandy Silt, very dark gray (10YR 3/1), slightly moist, fine-grained, some gravel, 60% fines, some rootlets, no plasticity.
			1		
G	1127-138-2.0	1311	**2**		
			3		
G	1127-138-4.0	1329	**4**	**ML**	Sandy Silt, very dark gray (10YR 3/1), slightly moist, fine-grained, 70% fines, some rootlets, no plasticity.
			5		
G	1127-138-6.0	1339	**6**	**ML**	Sandy Silt, very dark gray (10YR 3/1), slightly moist, fine-grained, organic matter, 70% fines, some rootlets, no plasticity.
			7		
			8		
G	1127-138-9.0	1355	**9**	**ML**	Sandy Silt, brown (10YR 4/3), slightly moist, fine-grained, some rootlets, 80% fines, no plasticity.
			10		Ends at 9 feet.
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-139

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Citrus Street (10 Fwy) Los Angeles County, California

Excavation Date: January 26, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Mike Akoto
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**SM**	Silty Sand, brown (10YR 5/3), loose, moist, fine-grained, some fine- to coarse-gravel, 30% fines, some tree roots, trace clay, low plasticity.
G	1127-139-1.0	1410	**1**		
G	1127-139-2.0	1418	**2**	**SM**	Silty Sand, brown (10YR 5/3), loose, moist, fine-grained, some fine- to coarse-gravel, 30% fines, trace clay, low plasticity.
			3		Refusal at 2 feet on gravel.
			4		
			5		
			6		
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-140

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Citrus Street (10 Fwy) Los Angeles County, California

Excavation Date: January 26, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Cesar Larios
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0 --	**SM**	Silty Sand, brown (10YR 5/3), loose, moist, fine-grained, some fine-gravel, 30% fines, some root and rootlets.
G	1127-141-1.0	1348	**1** --		
G	1127-141-2.0	1355	**2** --	**SM**	Silty Sand, brown (10YR 5/4), loose, moist, fine- to coarse-grained, some fine- to coarse-gravel, 30% fines, some root and rootlets.
			3 --		Refusal at 2.5 feet on gravel.
			4 --		
			5 --		
			6 --		
			7 --		
			8 --		
			9 --		
			10 --		
			11 --		
			12 --		
			13 --		
			14 --		
			15 --		
			16 --		
			17 --		
			18 --		
			19 --		
			20 --		

G - Grab Sample

BORING 1127-141

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Barrance Avenue (10 Fwy) Los Angeles County, California

Excavation Date: January 27, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Cesar Larios
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0 --	**SM**	Silty Sand with Clay, reddish brown (2.5YR 4/4), loose, slightly moist, fine-grained, some fine- to coarse-gravel, 30% fines, trace rootlets, no plasticity.
G	1127-141-1.0	1025	**1** --		
G	1127-141-2.0	1035	**2** --	**SM**	Silty Sand with Clay, reddish brown (2.5YR 4/4), loose, slightly moist, fine-grained, some fine- to coarse-gravel, 30% fines, trace rootlets, no plasticity.
			3 --		Refusal at 2.5 feet on gravel.
			4 --		
			5 --		
			6 --		
			7 --		
			8 --		
			9 --		
			10 --		
			11 --		
			12 --		
			13 --		
			14 --		
			15 --		
			16 --		
			17 --		
			18 --		
			19 --		
			20 --		

G - Grab Sample

BORING 1127-142

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Barrance Avenue (10 Fwy) Los Angeles County, California

Excavation Date: January 27, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Cesar Larios
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**SM**	Silty Sand with Clay, brown (10YR 4/3), loose, moist, fine- to coarse-grained, some fine- to coarse-gravel, 30% fines, some asphalt and concrete fragment, moderate plasticity.
G	1127-142-1.0	0850	**1**		
G	1127-142-2.0	0858	**2**	**SM**	Silty Sand with Clay, brown (10YR 4/3), loose, moist, fine- to coarse-grained, abundant fine- to coarse-gravel, 30% fines, moderate plasticity.
			3		Refusal at 2 feet on gravel.
			4		
			5		
			6		
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-143

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Barrance Avenue (10 Fwy) Los Angeles County, California

Excavation Date: January 27, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Cesar Larios
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**SM**	Silty Sand, brown (10YR 5/3), loose, moist, fine- to medium-grained with trace coarse-grained, some fine- to coarse-gravel, 20% fines, low plasticity.
G	1127-143-1.0	1048	**1**		
G	1127-143-2.0	1055	**2**	**SM**	Silty Sand, brown (10YR 5/3), loose, moist, fine- to medium-grained, some fine- to coarse-gravel, 30% fines, low plasticity.
			3		Refusal at 3 feet on gravel.
			4		
			5		
			6		
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-144

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Barrance Avenue (10 Fwy) Los Angeles County, California

Excavation Date: January 27, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Cesar Larios
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0 --	**SM**	Silty Sand, brown (10YR 5/3), loose, moist, fine- to coarse-grained, abundant fine- to coarse-gravel, 20% fines, low plasticity.
G	1127-144-1.0	0906	**1** --		
G	1127-144-2.0	0916	**2** --	**SM**	Silty Sand, brown (10YR 5/3), loose, moist, fine- to coarse-grained, abundant fine- to coarse-gravel, 20% fines, low plasticity.
			3 --		Refusal at 2 feet on gravel.
			4 --		
			5 --		
			6 --		
			7 --		
			8 --		
			9 --		
			10 --		
			11 --		
			12 --		
			13 --		
			14 --		
			15 --		
			16 --		
			17 --		
			18 --		
			19 --		
			20 --		

G - Grab Sample

BORING 1127-145

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Barrance Avenue (10 Fwy) Los Angeles County, California

Excavation Date: January 27, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Mike Akoto
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0 --	**SP**	Sand, poorly graded, very dark gray (10YR 3/1), dry, fine-grained, some fine-gravel, 5% fines, no plasticity.
G	1127-145-1.0	1129	**1** --		
G	1127-145-2.0	1135	**2** --	**SP**	Sand, poorly graded, very dark gray (10YR 3/1), dry, fine-grained, some fine-gravel, 5% fines, no plasticity.
			3 --		Refusal at 2 feet on gravel.
			4 --		
			5 --		
			6 --		
			7 --		
			8 --		
			9 --		
			10 --		
			11 --		
			12 --		
			13 --		
			14 --		
			15 --		
			16 --		
			17 --		
			18 --		
			19 --		
			20 --		

G - Grab Sample

BORING 1127-146

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Barrance Avenue (10 Fwy) Los Angeles County, California

Excavation Date: January 27, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Matt Lewin
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0 --	**SM**	Silty Sand, brown (10YR 5/3), loose, moist, fine- to coarse-grained, some fine- to coarse-gravel, 30% fines, low plasticity.
G	1127-146-1.0	0932	**1** --		
G	1127-146-2.0	0937	**2** --	**SM**	Silty Sand, brown (10YR 5/3), loose, moist, fine to coarse-grained, some fine- to coarse-gravel, 30% fines, low plasticity.
			3 --		Refusal at 2 feet on gravel.
			4 --		
			5 --		
			6 --		
			7 --		
			8 --		
			9 --		
			10 --		
			11 --		
			12 --		
			13 --		
			14 --		
			15 --		
			16 --		
			17 --		
			18 --		
			19 --		
			20 --		

G - Grab Sample

BORING 1127-147

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Barrance Avenue (10 Fwy) Los Angeles County, California

Excavation Date: January 27, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Jelisa Thomas
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**SC**	Clayey Sand, dark brown (10YR 3/3), medium dense, moist, fine-to medium-grained with some coarse-grained, some fine-gravel, no plasticity.
			1		
G	1127-147-2.0	1044	**2**		
			3		
G	1127-147-4.0	1049	**4**	**SC**	Clayey Sand, dark yellowish brown (10YR 4/4), medium dense, moist, medium-grained with some fine- and coarse-grained, some fine-gravel, no plasticity.
			5		
G	1127-147-6.0	1056	**6**	**SC**	Clayey Sand, dark yellowish brown (10YR 4/4), medium dense, moist, medium-grained with some fine- and coarse-grained, some fine-gravel, no plasticity.
			7		Refusal at 7 feet on gravel.
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-148

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Barrance Avenue (10 Fwy) Los Angeles County, California

Excavation Date: January 27, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Mike Akoto
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**SP**	Sand, poorly graded, brown (10YR 4/3), dry, fine-grained, 5% fines, no plasticity.
G	1127-148-1.0	0832	**1**		
G	1127-148-2.0	0837	**2**	**SM**	Silty Sand with Gravel, brown (10YR 4/3), slightly moist, fine-grained, fine-gravel, 20% fines, no plasticity.
			3		
G	1127-148-4.0	0848	**4**	**ML**	Sandy Silt, very dark gray (10YR 3/1), slightly moist, fine-grained, some fine-gravel, 60% fines, no plasticity.
			5		Refusal at 5 feet on gravel.
			6		
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-149

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Barrance Avenue (10 Fwy) Los Angeles County, California

Excavation Date: January 27, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Mike Akoto
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0 --	**SP**	Sand, poorly graded, very grayish brown (10YR 3/2), moist, fine-grained, some fine-gravel, 5% fines, no plasticity.
			-		
			1 --		
			-		
G	1127-149-2.0	1004	**2** --		
			-		
			3 --		
			-		
G	1127-149-4.0	1016	**4** --	**SP**	Sand, poorly graded, dark brown (10YR 3/3), slightly moist, fine-grained, some fine-gravel, 5% fines, no plasticity.
			-		
			5 --		
			-		
G	1127-149-6.0	1026	**6** --	**SP**	Sand, poorly graded, dark grayish brown (10YR 3/2), moist, fine-grained, some fine-gravel, 5% fines, no plasticity.
			-		
			7 --		Refusal at 6.5 feet on gravel.
			-		
			8 --		
			-		
			9 --		
			-		
			10 --		
			-		
			11 --		
			-		
			12 --		
			-		
			13 --		
			-		
			14 --		
			-		
			15 --		
			-		
			16 --		
			-		
			17 --		
			-		
			18 --		
			-		
			19 --		
			-		
			20 --		

G - Grab Sample

BORING 1127-150

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Barrance Avenue (10 Fwy) Los Angeles County, California

Excavation Date: January 27, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Jelisa Thomas
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**ML**	Sandy Silt, dark yellowish brown (10YR 4/4), firm, moist, fine- to medium-grained, trace fine-gravel, 70% fines, no plasticity.
			1		
G	1127-150-2.0	0905	**2**		
			3		
G	1127-150-4.0	0918	**4**	**ML**	Sandy Silt, dark brown (10YR 3/3), firm, moist, fine-grained with some medium-grained, trace fine- to coarse-gravel, 70% fines, no plasticity.
			5		Refusal at 4.5 feet on gravel.
			6		
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-152

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Grand Avenue (10 Fwy) Los Angeles County, California

Excavation Date: January 27, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Mike Akoto
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**SP**	Sand, poorly graded, very dark gray (10YR 3/1), moist, fine-grained, some coarse-gravel, 5% fines, no plasticity.
			1		
G	1127-152-2.0	1232	**2**		
			3		
G	1127-152-4.0	1236	**4**	**ML**	Sandy Silt, very dark grayish brown (10YR 3/1), moist, fine-grained, 70% fines, no plasticity.
			5		
G	1127-152-6.0	1243	**6**	**ML**	Sandy Silt, very dark grayish brown (10YR 3/2), moist, fine-grained, 70% fines, some root and rootlets, no plasticity.
			7		
G	1127-152-8.0	1258	**8**	**ML**	Sandy Silt, dark brown (10YR 3/3), moist, fine-grained, some coarse-gravel 60% fines, no plasticity.
			9		End at 8 feet.
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-154

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Grand Avenue (10 Fwy) Los Angeles County, California

Excavation Date: January 27, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Matt Lewin
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0 --	**SM**	Silty Sand, brown (10YR 4/3), loose, moist, fine- to coarse-grained, fine- to coarse-gravel, 30% fines, no plasticity.
G	1127-154-1.0	1229	**1** --		
G	1127-154-2.0	1232	**2** --	**SM**	Silty Sand, brown (10YR 4/3), loose, moist, fine- to coarse-grained, fine- to coarse-gravel, 30% fines, no plasticity.
			3 --		Refusal at 2.5 feet.
			4 --		
			5 --		
			6 --		
			7 --		
			8 --		
			9 --		
			10 --		
			11 --		
			12 --		
			13 --		
			14 --		
			15 --		
			16 --		
			17 --		
			18 --		
			19 --		
			20 --		

G - Grab Sample

BORING 1127-155

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Holt Avenue (10 Fwy) Los Angeles County, California

Excavation Date: January 27, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Matt Lewin
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**CL.**	Sandy Clay with Silt, reddish brown (2.5 YR 5/4), firm, moist, fine- to coarse-grained, trace fine-gravel, 80% fines, moderate plasticity.
			1		
G	1127-155-2.0	1108	**2**		
			3		
G	1127-155-4.0	1113	**4**	**CL.**	Sandy Clay with Silt, reddish brown (2.5 YR 5/4), firm, moist, fine- to coarse-grained, trace fine-gravel, 80% fines, moderate plasticity.
			5		
G	1127-155-6.0	1117	**6**	**CL.**	Sandy Clay, reddish brown (2.5YR 5/4), firm, moist, fine- to medium-grained with trace coarse-grained, trace fine-gravel, 70% fines, low plasticity.
			7		End at 6 feet.
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-156

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Holt Avenue (10 Fwy) Los Angeles County, California

Excavation Date: January 25, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Cesar Larios
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**SM**	Silty Sand with Clay, brown (10YR 4/3), firm, moist, fine-grained with trace medium- and coarse-grained, trace fine-gravel, 30% fines, trace asphalt fragment, low plasticity.
G	1127-156-1.0	1140	**1**		
G	1127-156-2.0	1142	**2**	**SM**	Silty Sand with Clay, brown (10YR 4/3), firm, moist, fine- to medium-grained with trace coarse-grained, some fine-gravel, 30% fines, low plasticity.
			3		Refusal at 3 feet on gravel.
			4		
			5		
			6		
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-157

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Holt Avenue (10 Fwy) Los Angeles County, California

Excavation Date: January 25, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Cesar Larios
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**SM**	Silty Sand with Gravel, brown (10YR 4/3), loose, moist, fine- to coarse-grained, fine- to coarse-gravel, 30% fines, low plasticity.
G	1127-157-1.0	1217	**1**		
G	1127-157-2.0	1231	**2**	**SM**	Silty Sand with Gravel, brown (10YR 4/3), loose, moist, fine- to coarse-grained, fine- to coarse-gravel, 30% fines, low plasticity.
			3		Refusal at 2.5 feet on gravel.
			4		
			5		
			6		
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-158

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Holt Avenue (10 Fwy) Los Angeles County, California

Excavation Date: January 25, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Cesar Larios
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**CL**	Silty Clay, brown (10YR 5/3), firm, moist, fine-grained, fine- to coarse-gravel, 80% fines, low plasticity.
			1		
G	1127-158-2.0	1158	**2**		
			3		
G	1127-158-4.0	1202	**4**	**CL**	Silty Clay, brown (10YR 5/3), firm, moist, fine-grained, fine- to coarse-gravel, 80% fines, low plasticity.
			5		Refusal at 4.5 feet on gravel.
			6		
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-159

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Via Verde (10 Fwy) Los Angeles County, California

Excavation Date: January 25, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Cesar Larios
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**CL**	Sandy Clay with Silt, dark brown to dark yellowish brown (10YR 3/3 -10YR 4/6), firm, moist, fine- to medium-grained, trace fine- to coarse-gravel, 80% fines, some roots, some concrete fragment.
G	1127-159-1.0	1408	**1**		
G	1127-159-2.0	1412	**2**	**CL**	Sandy Clay with Silt, dark brown to dark yellowish brown (10YR 3/3 -10YR 4/6), firm, moist, fine- to medium-grained, trace fine- to coarse-gravel, 80% fines, some roots, some concrete fragment.
			3		
			4		Refusal at 2.0 feet on gravel.
			5		
			6		
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-160

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Via Verde (10 Fwy) Los Angeles County, California

Excavation Date: January 26, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Cesar Larios
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**SP-SM**	Sand with Silt, brown (7.5YR 6/4), loose, moist, fine-grained, abundant fine- to coarse-gravel.
G	1127-160-1.0	0939	**1**		
G	1127-160-2.0	0948	**2**	**SP-SM**	Sand with Silt, brown (7.5YR 6/4), loose, moist, fine-grained, abundant fine- to coarse-gravel.
			3		Refusal at 2 feet on gravel.
			4		
			5		
			6		
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-161

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Via Verde (10 Fwy) Los Angeles County, California

Excavation Date: January 25, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Cesar Larios
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**CL**	Sandy Clay with Silt, brown (10YR 5/3), firm, moist, fine- to medium-grained, trace fine- to coarse-gravel, 70% fines, low plasticity, some root and rootlets, some asphalt and concrete fragment.
G	1127-161-1.0	1330	**1**		
			2		
G	1127-161-3.0	1345	**3**	**CL**	Clay, dark yellowish brown (10YR 4/6), stiff, moist, trace fine- to coarse-sand, trace fine-gravel, 90% fines, medium plasticity.
			4		Refusal at 4.0 feet on gravel.
			5		
			6		
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-162

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Via Verde (10 Fwy) Los Angeles County, California

Excavation Date: January 26, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Matt Lewin
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**ML**	Clayey Silt with Sand, brown (10YR 4/3), firm, moist, fine-grained, abundant fine- to coarse-gravel, 80% fines, moderate plasticity.
G	1127-162-1.0	0917	**1**		
			2		
G	1127-162-3.0	0924	**3**	**ML**	Clayey Silt with Sand, brown (10YR 4/3), firm, moist, fine-grained, abundant fine- to coarse-gravel, 80% fines, moderate plasticity.
			4		Refusal at 3.5 feet on gravel.
			5		
			6		
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-163

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Via Verde (10 Fwy) Los Angeles County, California

Excavation Date: January 25, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Matt Lewin
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**CL**	Sandy Clay with Gravel, brown (10YR 4/3), firm, moist, fine-grained, fine- to coarse-gravel, 70% fines, moderate plasticity.
G	1127-163-1.0	1424	**1**		
			2		
G	1127-163-3.0	1428	**3**	**CL**	Sandy Clay with Gravel, brown (10YR 4/3), firm, moist, fine-grained, fine- to coarse-gravel, 70% fines, moderate plasticity.
			4		Refusal at 4 feet on gravel.
			5		
			6		
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-164

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Via Verde (10 Fwy) Los Angeles County, California

Excavation Date: January 26, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Cesar Larios
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**ML**	Clayey Silt with Sand, brown (10YR 5/3), firm, moist, fine-grained with trace medium- and coarse-grained, trace fine-gravel, 80% fines, moderate plasticity, some concrete fragment, trace roots.
G	1127-164-1.0	0905	**1**		
			2		
G	1127-164-3.0	0909	**3**	**CL**	Silty Clay with Sand, brown (10YR 4/3), firm, moist, fine- to medium-grained with trace coarse-grained, some fine-to coarse-gravel, 70% fines, moderate to high plasticity, trace roots and rootlets.
			4		
			5		Refusal at 3 feet on gravel.
			6		
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-165

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Via Verde (10 Fwy) Los Angeles County, California

Excavation Date: January 26, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Matt Lewin
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**CL**	Sandy Clay with Gravel, brown (10YR 5/3), loose, moist, fine-grained, fine- to coarse-gravel, 70% fines, low plasticity.
G	1127-165-1.0	0822	**1**		
G	1127-165-2.0	0830	**2**	**CL**	Sandy Clay with Gravel, yellowish brown (10YR 5/6), loose, moist, fine- to coarse-grained, fine- to coarse-gravel, 70% fines, low plasticity.
			3		Refusal at 2.0 feet on gravel.
			4		
			5		
			6		
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-166

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Via Verde (10 Fwy) Los Angeles County, California

Excavation Date: January 26, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Matt Lewin
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**SM**	Silty Sand with Clay, brown (10YR 5/3), loose, moist, fine- to medium-grained with trace coarse-grained, some fine-gravel, 40% fines, low to moderate plasticity.
G	1127-166-1.0	0850	**1**		
			2		
G	1127-166-3.0	0856	**3**	**CL**	Silty Clay with Sand and Gravel, brown (10YR 5/3), firm, moist, fine- to coarse-grained, fine- to coarse-gravel, 80% fines, moderate plasticity.
			4		Refusal at 3.5 feet on gravel.
			5		
			6		
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-167

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Kellogg Drive (10 Fwy) Los Angeles County, California

Excavation Date: January 26, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Matt Lewin
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0 --	**SM**	Silty Sand with Gravel, yellowish brown (10YR 5/6), loose, moist, fine- to medium-grained, fine- to coarse-gravel, 20% fines.
			1 --		
G	1127-167-2.0	1207	**2** --		
			3 --		
G	1127-167-4.0	1209	**4** --	**SM**	Silty Sand with Gravel, yellowish brown (10YR 5/6), loose, moist, fine- to medium-grained, fine- to coarse-gravel, 20% fines.
			5 --		
G	1127-167-6.0	1213	**6** --	**SM**	Silty Sand with Gravel, yellowish brown (10YR 5/6), loose, moist, fine- to medium-grained, fine- to coarse-gravel, 20% fines.
			7 --		End at 6 feet.
			8 --		
			9 --		
			10 --		
			11 --		
			12 --		
			13 --		
			14 --		
			15 --		
			16 --		
			17 --		
			18 --		
			19 --		
			20 --		

G - Grab Sample

BORING 1127-168

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Kellogg Drive (10 Fwy) Los Angeles County, California

Excavation Date: January 26, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Matt Lewin
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**SM**	Silty Sand, brown (10YR 5/3), firm, moist, fine- to coarse-grained, fine- to coarse-gravel, 20% fines, no plasticity.
G	1127-168-1.0	1226	**1**		
G	1127-168-2.0	1228	**2**	**SM**	Silty Sand, brown (10YR 5/3), firm, moist, fine- to coarse-grained, fine- to coarse-gravel, 20% fines, no plasticity.
			3		Refusal at 2.5 feet on gravel.
			4		
			5		
			6		
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-169

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Kellogg Drive (10 Fwy) Los Angeles County, California

Excavation Date: January 26, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Cesar Larios
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**CL**	Silty Clay with Sand, yellowish brown (10YR 5/8), firm, moist, fine- to coarse-grained, abundant fine-gravel, 80% fines, moderate plasticity.
G	1127-169-1.0	1106	**1**		
G	1127-169-2.0	1109	**2**	**CL**	Silty Clay with Sand, yellowish brown (10YR 5/8), firm, moist, fine- to coarse-grained, abundant fine-gravel, 80% fines, moderate plasticity.
			3		Refusal at 3 feet on gravel.
			4		
			5		
			6		
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-170

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Kellogg Drive (10 Fwy) Los Angeles County, California

Excavation Date: January 26, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Cesar Larios
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**ML**	Sandy Silt with Clay, brown (10YR 5/3), loose, dry, fine- to medium-grained with trace coarse-grained, some fine-gravel, 70% fines, moderate plasticity.
G	1127-170-1.0	1050	**1**		
G	1127-170-2.0	1055	**2**	**ML**	Sandy Silt with Clay, reddish brown (10YR 5/3), loose, dry, fine- to medium-grained with trace coarse-grained, some fine-gravel, 70% fines, moderate plasticity.
			3		Refusal at 3 feet on gravel.
			4		
			5		
			6		
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-172

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Kellogg Drive (10 Fwy) Los Angeles County, California

Excavation Date: January 26, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Matt Lewin
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**CL**	Silty Clay with Sand, brown (10YR 5/3), firm, moist, fine-grained, fine- to coarse-gravel, 80% fines, moderate plasticity.
G	1127-172-1.0	1236	**1**		
G	1127-172-2.0	1238	**2**	**CL**	Silty Clay with Sand, brown (10YR 5/3), firm, moist, fine-grained, fine- to coarse-gravel, 80% fines, moderate plasticity.
			3		Refusal at 3 feet on gravel.
			4		
			5		
			6		
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-174

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Kellogg Drive (10 Fwy) Los Angeles County, California

Excavation Date: January 26, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Cesar Larios
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**ML**	Sandy Silt, brown (10YR 5/3), soft, dry, fine-grained, trace fine-gravel, 70% fines, low plasticity.
G	1127-174-1.0	1037	**1**		
G	1127-174-2.0	1040	**2**	**ML**	Sandy Silt with Clay, brown (10YR 5/3), soft, moist, fine- to medium-grained, some fine- to coarse-gravel, 70% fines, moderate plasticity.
			3		Refusal at 2.5 feet on gravel.
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G - Grab Sample

BORING 1127-175

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: 10 Fwy EB between Via Verde and Kellogg Drive Los Angeles County, California

Excavation Date: January 27, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Jelisa Thomas
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**SC**	Clayey Sand, very dark grayish brown, (10YR 3/2), fine- to medium-grained with some coarse-grained, trace fine-gravel, 20% fines, no plasticity.
G	1127-175-1.0	1342	**1**		
G	1127-175-2.0	1345	**2**	**SC**	Clayey Sand, brown, (7.5YR 5/3), fine- to medium-grained with some coarse-grained, trace fine-gravel, 20% fines, trace bedrock fragment, no plasticity.
G	1127-175-3.0	1347	**3**	**SC**	Clayey Sand, brown, (7.5YR 5/3), fine- to medium-grained with some coarse-grained, trace fine-gravel, 20% fines, trace bedrock fragment, no plasticity.
			4		End at 3 feet.
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G - Grab Sample

BORING 1127-176

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: 10 Fwy EB between Via Verde and Kellogg Drive Los Angeles County, California

Excavation Date: January 27, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Jelisa Thomas
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**ML/CL**	Clayey Silt to Silty Clay with Sand, yellowish brown (10YR 5/8), firm, moist, fine- to medium-grained, some fine- to coarse-gravel, 80% fines, moderate plasticity.
G	1127-176-1.0	1358	**1**		
G	1127-176-2.0	1405	**2**	**ML/CL**	Clayey Silt to Silty Clay with Sand, olive brown (2.5YR 4/3), firm, moist, fine- to medium-grained, some fine- to coarse-gravel, 80% fines, moderate plasticity.
G	1127-176-3.0	1410	**3**	**CL**	Silty Clay, yellowish brown (2.5YR 4/3), firm, moist, some fine- to coarse-gravel, 90% fines, medium plasticity.
			4		End at 3 feet.
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G - Grab Sample

BORING 1127-177

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: 10 Fwy EB between Via Verde and Kellogg Drive Los Angeles County, California

Excavation Date: January 27, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Jelisa Thomas
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**SC**	Sandy Clay, dark brown, (10YR 3/3), fine-grained with some medium- to coarse-grained, some fine-gravel, 80% fines, no plasticity.
G	1127-177-1.0	1403	**1**		
G	1127-177-2.0	1408	**2**	**SC**	Sandy Clay, dark brown, (10YR 3/3), fine-grained with some medium- to coarse-grained, some fine-gravel, 80% fines, no plasticity.
			3		End at 2 feet.
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			5		
			6		
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G - Grab Sample

BORING 1127-178

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: 10 Fwy EB between Via Verde and Kellogg Drive Los Angeles County, California

Excavation Date: January 27, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Cesar Larios
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**ML**	Sandy Silt with Clay, brown (10YR 5/3), firm, moist, fine- to medium-grained with some coarse-grained, some fine-gravel, 60% fines, low plasticity.
G	1127-178-1.0	1420	**1**		
G	1127-178-2.0	1427	**2**	**CL**	Silty Clay with Sand, yellowish brown (10YR 5/8), firm, moist, fine- to medium-grained, some fine- to coarse-gravel, 80% fines, moderate plasticity.
			3		Refusal at 2.5 feet on gravel.
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			5		
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G - Grab Sample

BORING 1127-179

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: 10 Fwy EB between Via Verde and Kellogg Drive Los Angeles County, California

Excavation Date: January 27, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Matt Lewin
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**SM**	Silty Sand, brown (10YR 5/3), loose, moist, fine- to coarse-grained, some fine- to coarse-gravel, 30% fines, no plasticity.
G	1127-179-1.0	1420	**1**		
G	1127-179-2.0	0913	**2**	**SC**	Sandy Clay, olive (5YR 4/3), stiff, moist, fine- to medium-grained, some fine-gravel, 70% fines, some bedrock fragment, low plasticity.
			3		Refusal at 2.5 feet on gravel. Sample at 1 foot was collected on 1/27/2011. Sample at 2 feet was collected on 1/28/2011.
			4		
			5		
			6		
			7		
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G - Grab Sample

BORING 1127-180

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: 10 Fwy EB between Via Verde and Kellogg Drive Los Angeles County, California

Excavation Date: January 27, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Mike Akoto
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**SM**	Silty Sand, very dark gray (7.5YR 3/1), dry, fine-grained, some fine-gravel, 20% fines, no plasticity.
G	1127-180-1.0	1438	**1**		
G	1127-180-2.0	1440	**2**	**SP**	Sand with Gravel, poorly graded, brown (7.5YR 4/3), slightly moist, fine-grained, fine- to coarse-gravel, 5% fines, no plasticity.
			3		Refusal at 2.5 feet on gravel.
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G - Grab Sample

BORING 1127-181

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: 10 Fwy EB between Via Verde and Kellogg Drive Los Angeles County, California

Excavation Date: January 27, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Jelisa Thomas
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**SC**	Sandy Clay, brown (10YR 4/3), firm, moist, fine- to medium-grained with some coarse-grained, some fine-gravel, some bedrock fragment, 60% fines, no plasticity.
G	1127-181-1.0	1440	**1**		
G	1127-181-2.0	1442	**2**	**SC**	Sandy Clay, brown (10YR 4/3), firm, moist, fine- to medium-grained with some coarse-grained, some fine-gravel, some bedrock fragment, 60% fines, no plasticity.
G	1127-181-3.0	1444	**3**	**SC**	Sandy Clay, brown (10YR 4/3), firm, moist, fine- to medium-grained with some coarse-grained, some fine-gravel, increase in bedrock fragment, 60% fines, no plasticity.
			4		
			5		End at 3 feet.
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G - Grab Sample

BORING 1127-182

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: 10 Fwy EB between Via Verde and Kellogg Drive Los Angeles County, California

Excavation Date: January 28, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Jelisa Thomas
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**SC**	Clay with Sand, olive (5YR 4/4), firm, moist, fine-grained, some fine-gravel, 80% fines, moderate plasticity.
G	1127-182-1.0	0835	**1**		
G	1127-182-2.0	0848	**2**	**SC**	Clay with Sand, olive (5YR 4/4), firm, moist, fine-grained, some fine-gravel, 80% fines, moderate plasticity.
G	1127-182-3.0	0851	**3**	**SC**	Clay with Sand, olive (5YR 4/4), firm, moist, fine-grained, some fine-gravel, 80% fines, moderate plasticity.
			4		End at 3 feet.
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G - Grab Sample

BORING 1127-183

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: 10 Fwy EB between Via Verde and Kellogg Drive Los Angeles County, California

Excavation Date: January 28, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Cesar Larios
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**CL**	Silty Clay with Sand, yellowish brown to very dark grayish brown (10YR 5/6 - 2.5YR 3/2), fine- to medium-grained, some fine-gravel, 80% fines, low plasticity.
G	1127-183-1.0	0912	**1**		
G	1127-183-2.0	0920	**2**	**CL**	Silty Clay with Sand, yellowish brown to very dark grayish brown (10YR 5/6 - 2.5YR 3/2), fine- to medium-grained, some fine-gravel, 80% fines, low plasticity.
			3		Refusal at 2.5 feet on gravel.
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G - Grab Sample

BORING 1127-184

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: 10 Fwy EB between Via Verde and Kellogg Drive Los Angeles County, California

Excavation Date: January 28, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Cesar Larios
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**SM**	Silty Sand with Clay, olive brown (2.5YR 4/4), loose, moist, fine- to medium-grained with trace coarse-grained, some fine- to coarse-gravel, some concrete and asphalt fragment, 30% fines, moderate plasticity.
G	1127-184-1.0	0900	**1**		
G	1127-184-2.0	0905	**2**	**CL**	Sandy Clay, light olive brown (2.5YR 5/4), firm, moist, fine- to medium-grained, some fine- to coarse-gravel, 70% fines, moderate plasticity.
			3		
			4		Refusal at 2.5 feet on gravel.
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G - Grab Sample

BORING 1127-185

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Via Verde (10 Fwy WB) Los Angeles County, California

Excavation Date: January 28, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Jelisa Thomas
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**CL**	Sandy Clay, dark yellowish brown (10YR 4/4), stiff, moist, fine- to medium-grained, 70% fines, some fine-gravel, low plasticity.
G	1127-185-1.0	1210	**1**		
G	1127-185-2.0	1213	**2**	**CL**	Sandy Clay, dark yellowish brown (10YR 4/4), stiff, moist, fine- to medium-grained, 70% fines, some fine-gravel, low plasticity.
G	1127-185-3.0	1218	**3**	**CL**	Sandy Clay, dark yellowish brown (10YR 4/4), stiff, moist, fine- to medium-grained, 70% fines, some fine-gravel, low plasticity.
			4		End at 3.0 feet.
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G - Grab Sample

BORING 1127-186

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Via Verde (10 Fwy WB) Los Angeles County, California

Excavation Date: January 28, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Mike Akoto
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**ML**	Clayey Silt with Gravel, dark grayish brown (10YR 4/2), dry, fine-grained, some coarse-gravel, 80% fines, no plasticity.
G	1127-186-1.0	1232	**1**		
G	1127-186-2.0	1239	**2**	**SP**	Sand with Gravel, poorly graded, dark yellowish brown (10YR 4/6), slightly moist, fine- to coarse-grained, fine- to coarse-gravel, 5% fines, no plasticity.
			3		Refusal at 2.5 feet on gravel.
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G - Grab Sample

BORING 1127-187

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Via Verde (10 Fwy WB) Los Angeles County, California

Excavation Date: January 28, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Jelisa Thomas
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**SC**	Clayey Sand, yellowish brown (10YR 5/6), medium dense, moist, fine- to medium-grained with some coarse-grained, some fine-gravel, 30% fines, no plasticity.
G	1127-187-1.0	1258	**1**		
G	1127-187-2.0	1305	**2**	**SC**	Clayey Sand, dark yellowish brown (10YR 4/4), medium dense, moist, fine- to medium-grained with some coarse-grained, some fine-gravel, 30% fines, no plasticity.
G	1127-187-3.0	1310	**3**	**SC**	Clayey Sand, dark yellowish brown (10YR 4/4), medium dense, moist, fine- to medium-grained with some coarse-grained, some fine-gravel, 30% fines, no plasticity.
			4		End at 3.0 feet.
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			6		
			7		
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			12		
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G - Grab Sample

BORING 1127-188

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Via Verde (10 Fwy WB) Los Angeles County, California

Excavation Date: January 28, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Cesar Larios
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**ML**	Clayey Silt with Sand, olive brown (2.5YR 4/4), firm, moist, fine- to medium-grained, some fine- to coarse-gravel, 80% fines, low plasticity.
G	1127-188-1.0	1220	**1**		
G	1127-188-2.0	1228	**2**	**CL**	Silty Clay, brown (10YR 5/3), firm, moist, fine- to medium-grained, some fine- to coarse-gravel, 90% fines, moderate plasticity.
			3		Refusal at 2 feet on gravel.
			4		
			5		
			6		
			7		
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G - Grab Sample

BORING 1127-189

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Via Verde (10 Fwy WB) Los Angeles County, California

Excavation Date: January 28, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Cesar Larios
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**ML**	Sandy Silt with Clay, olive (5YR 5/3), firm, moist, fine-grained with trace medium- and coarse-grained, fine- to coarse-gravel, 70% fines, moderate plasticity.
G	1127-189-1.0	1249	**1**		
G	1127-189-2.0	1252	**2**	**CL**	Sandy Clay, brown (7.5YR 4/2), fine- to medium-grained, some fine- to coarse-gravel, 70% fines, low plasticity.
G	1127-189-3.0	1257	**3**	**CL**	Sandy Clay, brown (7.5YR 4/2), fine- to medium-grained, some fine- to coarse-gravel, 70% fines, low plasticity.
			4		End at 3.0 feet.
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			7		
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			11		
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G - Grab Sample

BORING 1127-190

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: Via Verde (10 Fwy WB) Los Angeles County, California

Excavation Date: January 28, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Cesar Larios
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**SM**	Silty Sand, brown (10YR 4/3), loose, dry, fine-grained with some medium- and coarse-grained, trace fine-gravel, 30% fines, no plasticity.
G	1127-190-1.0	1307	**1**		
G	1127-190-2.0	1309	**2**	**CL**	Silty Clay, olive (5YR 5/3), firm, moist, trace fine- to medium-grained sand, some fine- to coarse-gravel, 90% fines, moderate plasticity.
			3		Refusal at 2.5 feet on gravel.
			4		
			5		
			6		
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G - Grab Sample

BORING 1127-191

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: 10 Fwy EB between Via Verde and Kellogg Drive Los Angeles County, California

Excavation Date: January 28, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Jelisa Thomas
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**SP-SC**	Sand with Clay, poorly graded, yellowish brown (10YR 5/6), loose, moist, fine- to medium-grained with some coarse-grained, some fine-gravel, 10% fines, no plasticity.
G	1127-191-1.0	0929	**1**		
G	1127-191-2.0	0934	**2**	**SP-SC**	Sand with Clay, poorly graded, yellowish brown (10YR 5/6), loose, moist, fine- to medium-grained with some coarse-grained, some fine-gravel, 10% fines, no plasticity.
			3		Refusal at 2.5 feet on gravel.
			4		
			5		
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G - Grab Sample

BORING 1127-192

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: 10 Fwy EB between Via Verde and Kellogg Drive Los Angeles County, California

Excavation Date: January 28, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Mike Akoto
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**SM**	Silty Sand with Gravel, very dark gray (10YR 3/1), slightly moist, fine-grained, some coarse-gravel, 30% fines, no plasticity.
G	1127-192-1.0	0948	**1**		
G	1127-192-2.0	0953	**2**	**SP**	Sand with Gravel, poorly graded, very dark grayish brown (10YR 3/2), slightly moist, fine-grained, fine-gravel, 5% fines, no plasticity.
G	1127-192-3.0	1001	**3**	**SP**	Sand with Gravel, poorly graded, very dark grayish brown (10YR 3/2), slightly moist, fine-grained, fine-gravel, 5% fines, no plasticity.
			4		End at 3.0 feet.
			5		
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G - Grab Sample

BORING 1127-193

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: 10 Fwy EB between Via Verde and Kellogg Drive Los Angeles County, California

Excavation Date: January 28, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Mike Akoto
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**SC**	Clayey Sand, yellowish brown (10YR 5/4), loose, slightly moist to moist, fine- to medium-grained with some coarse-grained, some fine-gravel, no plasticity.
G	1127-193-1.0	1011	**1**		
G	1127-193-2.0	1021	**2**	**SC**	Clayey Sand, yellowish brown (10YR 5/4), loose, slightly moist to moist, fine- to medium-grained with some coarse-grained, some fine-gravel, no plasticity.
G	1127-193-3.0	1028	**3**	**SC**	Clayey Sand, yellowish brown (10YR 5/6), loose, moist, fine- to medium-grained with some-coarse-grained, some fine-gravel, no plasticity.
			4		Ends at 3.0 feet.
			5		
			6		
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-194

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: 10 Fwy EB between Via Verde and Kellogg Drive Los Angeles County, California

Excavation Date: January 28, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Mike Akoto
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**SC**	Sand with Clay and Gravel, dark brown (10YR 3/3), slightly moist, fine-grained, some coarse-gravel, 10% fines, low plasticity.
G	1127-194-1.0	1033	**1**		
G	1127-194-2.0	1036	**2**	**SC**	Sand with Clay and Gravel, dark brown (10YR 3/3), slightly moist, fine-grained, some coarse-gravel, 10% fines, low plasticity.
			3		Refusal at 2 feet on gravel.
			4		
			5		
			6		
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-195

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: 10 Fwy EB between Via Verde and Kellogg Drive Los Angeles County, California

Excavation Date: January 28, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Matt Lewin
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**SM**	Sand with Silt, poorly graded, strong brown (7.5YR 5/8), loose, moist, fine- to coarse-grained, some fine- to coarse-gravel, 5% fines, no plasticity.
G	1127-195-1.0	1013	**1**		
G	1127-195-2.0	1037	**2**	**SM**	Sand with Silt, poorly graded, strong brown (7.5YR 5/8), loose, moist, fine- to coarse-grained, abundant fine- to coarse-gravel, 5% fines, no plasticity.
			3		Refusal at 2.0 on gravel.
			4		
			5		
			6		
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-196

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans
Location: 10 Fwy EB between Via Verde and Kellogg Drive Los Angeles County, California

Excavation Date: January 28, 2011
Excavation Method: Hand Auger
Excavation Size: 3-inch diameter
Logged By: Matt Lewin
Reviewed By: Cesar Larios

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**SP-SM**	Sand with Silt, poorly graded, yellow (2.5YR 8/8), loose, moist, fine- to coarse-grained, some fine- to coarse-gravel, 5% fines, no plasticity.
G	1127-195-1.0	0940	**1**		
G	1127-195-2.0	1002	**2**	**SP-SM**	Sand with Silt, poorly graded, yellow (2.5YR 8/8), loose, moist, fine- to coarse-grained, some fine- to coarse-gravel, 5% fines, no plasticity.
			3		Refusal at 2 on gravel.
			4		
			5		
			6		
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-201

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans TO11A1
Location: Area 2 - Eastern Bench

Sampling Method: Dual Tube

Excavation Date: March 15, 2011
Drilling Method: Direct Push
Drilling Equipment: Geoprobe track 6600
Logged By: V. Robino
Reviewed by D. Paul
Drilling Contractor: Interphase

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**SM**	Silty Sand, light olive brown (2.5Y 5/6), moist, approximately 80% fine to medium sand, approximately 20% low plasticity fines, roots approximately 1/32 inch diameter.
			1		weathered sandstone (bedrock)
			2		
			3		
G	1127-201-3.5	0800			
			4		
G	1127-201-4.5	0825			
			5		
G	1127-201-5.5	0830			
			6		
G	1127-201-6.5	0832			
			7		
G	1127-201-7.5	0835			
			8		
			9		
			10		
G	1127-201-10.5	0836			
			11		Bottom of boring at 10.5 feet below ground surface (bgs).
			12		Boring destroyed by placing granular bentonite from total depth to ground surface, hydrated in 2-foot lifts.
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-202

Project No. S9500-06-04
Client: Caltrans TO11A1
Location: Area 2 - Eastern Bench

Sampling Method: Dual Tube

Excavation Date: March 15, 2011
Drilling Method: Direct Push
Drilling Equipment: Geoprobe track 6600
Logged By: V. Robino
Reviewed by D. Paul
Drilling Contractor: Interphase

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0 --	**SM**	Silty Sand, light olive brown (2.5Y 5/6), moist, approximately 80% fine to medium
			-		sand, approximately 20% low plasticity fines, trace fine gravel, roots.
			1 --		weathered sandstone (bedrock)
			-		
			2 --		
			-		
			3 --		
G	1127-202-3.5	0850	-		
			4 --		
G	1127-202-4.5	0904	-		
G	1127-202-5.0	0906	**5** --		
G	1127-201-5.5	0908	-		
			6 --		
			-		
			7 --		
			-		Bottom of boring at 7.0 feet bgs, refusal.
			8 --		
			-		Boring destroyed by placing granular bentonite from total depth to ground surface, hydrated
			9 --		in 2-foot lifts.
			-		
			10 --		
			-		
			11 --		
			-		
			12 --		
			-		
			13 --		
			-		
			14 --		
			-		
			15 --		
			-		
			16 --		
			-		
			17 --		
			-		
			18 --		
			-		
			19 --		
			-		
			20 --		

G - Grab Sample

BORING 1127-203

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans TO11A1
Location: Area 2 - Eastern Bench

Sampling Method: Dual Tube

Excavation Date: March 15, 2011
Drilling Method: Direct Push
Drilling Equipment: Geoprobe track 6600
Logged By: V. Robino
Reviewed by D. Paul
Drilling Contractor: Interphase

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0 --	**SM**	Silty Sand, light olive brown (2.5Y 5/6), moist, approximately 80% fine to medium sand, approximately 20% low plasticity fines, trace fine gravel, roots.
			-		
			1 --		weathered sandstone (bedrock)
			-		
			2 --		
			-		
			3 --		
G	1127-203-3.5	0930	-		
			4 --		
G	1127-203-4.5	0931	-		
			5 --		
G	1127-203-5.5	0933	-		
G	1127-203-6.0	0934	**6** --		
G	1127-203-6.5	0936	-		
G	1127-203-7.0	0938	**7** --		
			-		
			8 --		Bottom of boring at 7.5 feet bgs, refusal.
			-		Boring destroyed by placing granular bentonite from total depth to ground surface, hydrated
			9 --		in 2-foot lifts.
			-		
			10 --		
			-		
			11 --		
			-		
			12 --		
			-		
			13 --		
			-		
			14 --		
			-		
			15 --		
			-		
			16 --		
			-		
			17 --		
			-		
			18 --		
			-		
			19 --		
			-		
			20 --		

G - Grab Sample

BORING 1127-204

Project No. S9500-06-04
Client: Caltrans TO11A1
Location: Area 2 - Eastern Bench

Sampling Method: Dual Tube

Excavation Date: March 15, 2011
Drilling Method: Direct Push
Drilling Equipment: Geoprobe track 6600
Logged By: V. Robino
Reviewed by D. Paul
Drilling Contractor: Interphase

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0 --	**ML**	Sandy Silt light olive brown (2.5Y 5/6), moist, approximately 60% fines, approximately 40% fine to medium sand, low plasticity, rapid delatency, low toughness, medium dry strength.
			-		
			1 --		weathered sandstone (bedrock)
			-		
			2 --		
			-		
			3 --		
G	1127-204-3.5	0955	-		
			4 --		
G	1127-204-4.5	0957	-		
			5 --		
G	1127-204-5.5	0958	-		
G	1127-204-6.0	0959	**6** --		
G	1127-204-6.5	1001	-		
			7 --		Bottom of boring at 6.5 feet, bgs, refusal.
			-		
			8 --		
			-		Boring destroyed by placing granular bentonite from total depth to ground surface, hydrated in 2-foot lifts.
			9 --		
			-		
			10 --		
			-		
			11 --		
			-		
			12 --		
			-		
			13 --		
			-		
			14 --		
			-		
			15 --		
			-		
			16 --		
			-		
			17 --		
			-		
			18 --		
			-		
			19 --		
			-		
			20 --		

G - Grab Sample

BORING 1127-205

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans TO11A1
Location: Area 2 - Western Bench

Sampling Method: Dual Tube

Excavation Date: March 15, 2011
Drilling Method: Direct Push
Drilling Equipment: Geoprobe track 6600
Logged By: V. Robino
Reviewed by D. Paul
Drilling Contractor: Interphase

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0 --	**SM**	Silty Sand, light olive brown (2.5Y 5/6), moist, approximately 80% fine to coarse sand, approximately 20% low plasticity fines, trace fine gravel, roots.
			1 --		weathered sandstone (bedrock)
			2 --		
G	1127-205-2.5	1100			
G	1127-205-3.0	1101	**3** --		
G	1127-205-3.5	1104			
			4 --		
					Bottom of boring at 4 feet bgs.
			5 --		
					Boring destroyed by placing granular bentonite from total depth to ground surface, hydrated in 2-foot lifts.
			6 --		
			7 --		
			8 --		
			9 --		
			10 --		
			11 --		
			12 --		
			13 --		
			14 --		
			15 --		
			16 --		
			17 --		
			18 --		
			19 --		
			20 --		

G - Grab Sample

BORING 1127-206

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans TO11A1
Location: Area 2 - Western Bench

Sampling Method: Dual Tube

Excavation Date: March 15, 2011
Drilling Method: Direct Push
Drilling Equipment: Geoprobe track 6600
Logged By: V. Robino
Reviewed by D. Paul
Drilling Contractor: Interphase

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**SM**	Silty Sand, light olive brown (2.5Y 5/6), moist, approximately 80% fine to coarse sand, approximately 20% low plasticity fines, trace fine to coarse gravel, roots.
			1		weathered sandstone (bedrock)
			2		
G	1127-206-2.5	1120			
G	1127-206-3.0	1121	**3**		
G	1127-206-3.5	1122			
			4		Bottom of boring at 4 feet bgs, refusal.
			5		
			6		Boring destroyed by placing granular bentonite from total depth to ground surface, hydrated in 2-foot lifts.
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-207

Project No. S9500-06-04
Client: Caltrans TO11A1
Location: Area 2 - Western Bench

Sampling Method: Dual Tube

Excavation Date: March 15, 2011
Drilling Method: Direct Push
Drilling Equipment: Geoprobe track 6600
Logged By: V. Robino
Reviewed by D. Paul
Drilling Contractor: Interphase

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0 --	**SM**	Silty Sand, light olive brown (2.5Y 5/6), moist, approximately 70% fine to coarse sand, approximately 20% low plasticity fines, approximately 10% fine gravel, roots.
			1 --		weathered sandstone (bedrock)
			2 --		
			3 --		
			4 --		
G	1127-207-4.5	1140			
			5 --		
G	1127-207-5.5	1142			
			6 --		
G	1127-207-6.5	1143			
G	1127-207-7.0	1144	**7** --		
			8 --		
			9 --		
			10 --		
G	1127-207-10.5	1150			
			11 --		Bottom of boring at 10.5 feet bgs.
			12 --		Boring destroyed by placing granular bentonite from total depth to ground surface, hydrated in 2-foot lifts.
			13 --		Sample from 7-7.5 No reccovery. Analyze soil sample from 6.5 - 7.0 instead.
			14 --		
			15 --		
			16 --		
			17 --		
			18 --		
			19 --		
			20 --		

G - Grab Sample

BORING 1127-208

Project No. S9500-06-04
Client: Caltrans TO11A1
Location: Area 2 - Western Bench

Sampling Method: Dual Tube

Excavation Date: March 15, 2011
Drilling Method: Direct Push
Drilling Equipment: Geoprobe track 6600
Logged By: V. Robino
Reviewed by D. Paul
Drilling Contractor: Interphase

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**SM**	Silty Sand, light olive brown (2.5Y 5/6), moist, approximately 70% fine to medium sand, approximately 20% low plasticity fines, approximately 10% fine gravel.
			1		weathered sandstone (bedrock)
			2		
			3		
G	1127-208-3.4	1210			
			4		
G	1127-208-4.5	1211			
			5		
G	1127-208-5.5	1212			
			6		
G	1127-208-6.5	1213			
			7		
G	1127-208-7.5	1214			
			8		
			9		
			10		
G	1127-208-10.5	1222			
			11		Bottom of boring at 10.5 feet bgs.
			12		Boring destroyed by placing granular bentonite from total depth to ground surface, hydrated in 2-foot lifts.
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-209

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans TO11A1
Location: Area 1

Sampling Method: Dual Tube

Excavation Date: March 15, 2011
Drilling Method: Direct Push
Drilling Equipment: Geoprobe track 6600
Logged By: V. Robino
Reviewed by D. Paul
Drilling Contractor: Interphase

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**SC**	Clayey Sand, Olive brown (2.5YR 4/4), moist, approximately 60% fine to medium sand, approximately 40% medium plasticity fines.
			1	**CL**	Lean Clay with Sand, very dark gray (2.5Y 3/1), moist, approximately 85% fines, approximately 15% fine to coarse sand, medium plasticity, no dilatancy, low toughness, high dry soft, strength.
			2		
			3		
			4		
G	1127-209-4.5	1350	**5**		
G	1127-209-5.5	1351	**6**		
G	1127-209-6.4	1353	**7**		
			8		
G	1127-209-8.5	1400	**9**		
			10		
G	1127-209-10.5	1402	**11**		Bottom of boring at 10.5 feet bgs.
			12		Boring destroyed by placing granular bentonite from total depth to ground surface, hydrated in 2-foot lifts.
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-210

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans TO11A1
Location: Area 1

Sampling Method: Dual Tube

Excavation Date: March 15, 2011
Drilling Method: Direct Push
Drilling Equipment: Geoprobe track 6600
Logged By: V. Robino
Reviewed by D. Paul
Drilling Contractor: Interphase

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**SC**	Clayey Sand, dark brown (7.5YR 3/4), moist, approximately 80% fine to medium sand, approximately 20% medium plasticity fines.
			1		
			2		
			3		
				SM	Silty Sand, dark brown (7.5YR 3/4), moist, approximately 60% fine sand, approximately 40% non plastic fines.
			4		
G	1127-210-4.5	1410			
			5		
G	1127-210-5.5	1411		**CC**	Sandy Lean Clay, very dark grayish brown (10YR 3/2), moist, approximately 70% fines, approximately 30% fine to coarse sand, trace fine gravel, medium plasticity, no dilatancy, low toughness, soft, high dry strength.
			6		
G	1127-210-6.5	1412			
			7		
			8		
G	1127-210-8.5	1415			
			9		
G	1127-210-10.0	1416	**10**		
			11		Bottom of boring at 10.5 feet bgs.
			12		Boring destroyed by placing granular bentonite from total depth to ground surface, hydrated in 2-foot lifts.
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-211

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans TO11A1
Location: Area 1

Sampling Method: Dual Tube

Excavation Date: March 15, 2011
Drilling Method: Direct Push
Drilling Equipment: Geoprobe track 6600
Logged By: V. Robino
Reviewed by D. Paul
Drilling Contractor: Interphase

Surface Conditions: Bare ground

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	Description
			0	SC	Clayey Sand, Olive brown (2.5Y 4/4), moist, approximately 80% fine to coarse sand, approximately 20% medium plasticity fines, trace fine to coarse gravel, roots.
			1		
			2		
			3	CL	Lean Clay with Sand, dark olive brown (2.5Y 3/2), moist, approximately 75% fines, approximately 25% fine to medium sand, medium plasticity, no dilatancy, low toughness, soft, high dry strength.
			4		
G	1127-211-4.5	1441			
			5		
G	1127-211-5.5	1443			
			6		
			7	CL	Lean Clay, dark Olive brown (2.5Y 3/2), moist, approximately 95% fines, approximately 5% sand, medium plasticity, no dilatancy, low toughness, soft, high dry strength.
			8		
G	1127-211-9.0	1450	9		
			10		
			11		Bottom of boring at 10.5 feet bgs.
			12		Boring destroyed by placing granular bentonite from total depth to ground surface, hydrated in 2-foot lifts.
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

BORING 1127-212

GEOCON CONSULTANTS, INC.

Project No. S9500-06-04
Client: Caltrans TO11A1
Location: Area 1

Sampling Method: Dual Tube

Excavation Date: March 15, 2011
Drilling Method: Direct Push
Drilling Equipment: Geoprobe track 6600
Logged By: V. Robino
Reviewed by D. Paul
Drilling Contractor: Interphase

Sample Type	Sample Number	Time	Depth (in feet)	USCS Class.	**Surface Conditions:** Bare ground **Description**
			0	**SC**	Clayey Sand, dark olive brown (2.5Y 3/3), moist, approximately 75% fine to medium sand, approximately 25% medium plasticity fines.
			1		
			2		
			3		
				CL	Lean Clay, very dark grayish brown (2.5Y 3/2), moist, approximately 90% fines, approximately 10% sand, medium plasticity, no dilatancy, low toughness, soft, high dry strength.
			4		
G	1127-212-4.5	1505			
			5		
G	1127-212-5.5	1507			
			6		
			7		
				ML	Silt, dark grayish brown (2.5Y 4/2), moist, approximately 95% fines, approximately 5% sand, low plasticity, rapid dilatancy, low toughness, soft.
			8		
G	1127-212-8.5	1509			
			9		
G	1127-212-10.0	1510	**10**		
			11		Bottom of boring at 10.5 feet bgs.
			12		Boring destroyed by placing granular bentonite from total depth to ground surface, hydrated in 2-foot lifts.
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

G - Grab Sample

APPENDIX E

APPENDIX E

DATA VALIDATION REPORT

AERIALLY DEPOSITED LEAD (ADL) INVESTIGATION REPORT
INTERSTATE 10 HOV LANE WIDENING PROJECT FROM PUENTE AVENUE TO STATE ROUTE 57
07-LA-10 PM 13.6/42.4
Caltrans Contract Number 07A2730, Task Order # 11
EA 07-117OU1 and 07-119341
Los Angeles County, California

INTRODUCTION

This report summarizes the finding of the data validation for soil samples collected by Geocon Consultants, Inc. (Geocon), on behalf of the California Department of Transportation (Caltrans), for the State Route 10 HOV Lane Widening Project (Project) located in Los Angeles County, California. Samples were submitted to Advanced Technology Laboratories in Signal Hill, California (ATL) for laboratory analysis; a State of California laboratory certified by the National Environmental Laboratory Accreditation Program (NELAP).

Field Quality Assurance and Quality Control (QA/QC) samples for soil samples collected within the Project area consisted of equipment blanks and field blanks. Laboratory QA/QC samples consisted of method blanks, matrix spike / matrix spike duplicate (MS/MSDs) recoveries, and laboratory control samples (LCS).

The field quality control samples were submitted to the laboratory for analyses along with the primary soil samples collected in the Project area. Data verification was performed in accordance with the United States Environmental Protection Agency (U.S. EPA) Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (U.S. EPA, 2010). The data quality evaluation for the soil samples analyzed is described below.

Data qualified as estimated (J, J+, and J-) are likely to be quantitatively biased to some degree. Such data provide only an approximate measure of the respective analyte concentration(s). These data qualifiers have been appended to the respective data and are reflected in the data summary tables. The data, as qualified, are acceptable and can be used for decision-making purposes; however, the limitations identified by the applied qualifiers should be considered when using the data.

1.1 DATA COMPLETENESS

A total of 295 samples (including field QC samples) were submitted to ATL for analysis. Results for all samples were reported by ATL. The project goal of a minimum of 90% completeness for collected data was achieved. A total of 295 soil samples (including field QC samples) listed on the chain-of-custody were analyzed and reported by ATL. Shallow soil samples were collected at depths of approximately 0.5-1.0 feet, 1.5-2.0 feet, 2.5-3.0 feet, 3.5-4.0 feet, 5.5-6.0 feet, 7.5-8.0 feet, and 9.5-10.0 feet using a hand auger. Soil samples were placed into laboratory-provided 4 ounce glass sample jars.

1.2 SAMPLE HOLD TIMES

All samples submitted to the laboratory for analysis were properly preserved according to guidelines established by the appropriate methods as verified by the laboratory. Recommended hold times were achieved for all analyses performed.

1.3 BLANK SAMPLES

Equipment Blank Samples

Equipment blank samples are used to evaluate for potential residual contamination on sampling equipment. The equipment blank samples were obtained by collecting de-ionized water passed over the hand-augers into unpreserved, laboratory-provided containers. A total of 20 equipment blank samples were collected over seven days of field work. The field blanks were analyzed for total lead using EPA Method 6010B. The Project met the frequency of collection requirements as specified in the Caltrans Contract #07A2730, Task Order #11 (Task Order) (Caltrans, 2010). Target analytes were not detected in the equipment blanks with the exception of: lead detected in one equipment blank (1127-200-EB3) collected on March 15, 2011 (laboratory work order #116888) at a concentration slightly above or at the method detection limit (MDL) and below the practical quantitation limits (PQL) at estimated concentration of 0.0015J milligrams per liter (mg/l). Lead was detected in the associated project samples above their MDLs; therefore, data qualification for these samples was not required.

Field Blank and Source Water Samples

Preparing blank samples in the field identifies ambient atmospheric contamination that could potentially become entrained in the samples during collection. A total of four field blank samples were collected in the sampling area by directly filling the laboratory-provided sample containers with distilled or purified water. Field blank samples were collected at a frequency of one field blank for every two hours during Geoprope sample collection. One source water (SW) sample was collected. The field blanks and source water sample were analyzed for total lead using EPA Method 6010B. Lead was detected in three of the field blanks at “J” concentrations. Target

analytes (lead) was detected in two of the field blanks (1127-200-FB1 and 1127-200-FB3) collected on March 15, 2011 (laboratory work order #116888) at concentrations slightly above or at the MDL and below the PQL at estimated concentrations of 0.00090J and 0.0018 mg/l, respectively. Lead was detected in the associated project samples above their MDLs; therefore, data qualification for these samples was not required. Lead was not detected in the source water sample.

Method Blank Samples

The laboratory also analyzed method blanks to provide an additional measure of internal quality control. Method blank results for all analytes were less than the reported PQLs, however some were detected above the MDL. Analytes detected in the method blanks include: antimony, zinc, and lead as follows.

- Laboratory work order 116888 – Method 6010B antimony analysis, the method blank result was 0.400 mg/kg for sample MB-72172 which exceeded the expected non-detect result however, the result is less than the 2.0 mg/kg PQL value. Analytical antimony results associated with this batch were qualified as estimated "J."

- Laboratory work order 116888 – Method 6010B zinc analysis, the method blank result was 0.164 mg/kg for sample MB-72172 which exceeded the expected non-detect result however, the result is less than the PQL value of 1.0 mg/kg. Zinc was detected in the associated project samples above the PQLs; therefore, data qualification for these samples was not required.

- Laboratory work order 115950 – Method 6010B lead analysis, the method blank result was 0.263 mg/kg for sample MB-70017A which exceeded the expected non-detect result. Lead was detected in the associated project samples above the PQLs; therefore, data qualification for these samples was not required.

- Laboratory work order 116042 – Method 6010B lead analysis, the method blank results were 0.153 and 0.126 mg/kg for samples MB-70173A and MB-70173B which exceeded the expected non-detect result however, the method blank result is less than the PQL of 5.0 mg/kg. Lead was detected in the associated project samples above the PQLs; therefore, data qualification for these samples was not required.

- Laboratory work order 116042 – Method 6010B lead analysis, the method blank result was 0.173 mg/kg for sample MB-70174A exceeded the expected non-detect however, the method blank result is less than the PQL of 5.0 mg/kg. Lead was detected in the associated project samples above the PQLs; therefore, data qualification for these samples was not required.

- Laboratory work order 115950 – Method 6010B antimony analysis, the method blank result was 0.171 mg/kg for sample MB-70696 which exceeded the expected non-detect result however, the result is less than the PQL value of 2.0 mg/kg. Analytical antimony results associated with this batch were qualified as estimated "J."

- Laboratory work order 115950 – Method 6010B zinc analysis, the method blank result was 0.220 mg/kg for sample MB-70696 which exceeded the expected non-detect result however, the result is less than the PQL value of 1.0 mg/kg. Zinc was detected in the associated project samples above the PQLs; therefore, data qualification for these samples was not required.

- Laboratory work order 115975 – Method 6010B antimony analysis, the method blank results was 0.230 mg/kg for sample MB-70741 which exceeded the expected non-detect result however, the result is less than the 2.0 mg/kg PQL value. Analytical antimony results associated with this batch were qualified as estimated "J."

- Laboratory work order 115975 – Method 6010B zinc analysis, the method blank result was 0.182 mg/kg for sample MB-70741 which exceeded the expected non-detect result however, the result is less than the PQL value of 1.0 mg/kg. Zinc was detected in the associated project samples above the PQLs; therefore, data qualification for these samples was not required.

- Laboratory work order 115975 – Method 6010B antimony analysis, the method blank result was 0.626 mg/kg for sample MB-70748 which exceeded the expected non-detect result however, the result is less than the 2.0 mg/kg PQL value. Analytical antimony results associated with this batch were qualified as estimated "J."

- Laboratory work order 115975 – Method 6010B zinc analysis, the method blank result was 0.343 mg/kg for sample MB-70748 which exceeded the expected

non-detect result however, the result is less than the PQL value of 1.0 mg/kg. Zinc was detected in the associated project samples above the PQLs; therefore, data qualification for these samples was not required.

- Laboratory work order 115975 – Method 6010B lead analysis, the method blank results were 0.247 and 0.193 mg/kg for samples MB-70097A and MB-70097B which exceeds the expected non-detect result however, the results are less than the PQL of 5.0 mg/kg. Lead was detected in the associated project samples above the PQLs; therefore, data qualification for these samples was not required.

- Laboratory work order 115975 – Method 6010B lead analysis, the method blank results were 0.200 and 0.138 mg/kg for samples MB-70098A and MB-70098A which exceeds the expected non-detect result however, the results are less than the PQL of 5.0 mg/kg. Lead was detected in the associated project samples above the PQLs; therefore, data qualification for these samples was not required

- Laboratory work order 115975 – Method 6010 lead analysis, the method blank result was 0.239 mg/kg for sample MB-70099A which exceeded the expected non-detect result, however the result is less than the PQL value of 5.0 mg/kg. Lead was detected in the associated project samples above the PQLs; therefore, data qualification for these samples was not required.

1.4 LABORATORY CONTROL SAMPLES

LCSs were analyzed as a measure of data accuracy. Internal laboratory QA/QC data associated with these analyses met criteria, including percent recoveries (%Rs). The Project laboratory met the frequency requirements for LCS analyses established by U.S. EPA National Functional Guidelines.

1.5 LABORATORY DUPLICATE SAMPLES

As another estimate of precision, the laboratory performed duplicate analyses of unspiked project samples at the frequency of collection requirements established by U.S. EPA National Functional Guidelines. The relative percent differences (RPDs) did not exceed the control limit of 20% established by the National Functional Guidelines (U.S. EPA, 2004) for the technical review of non-homogenous soil samples, with the following exceptions.

- Laboratory batch ID 70097 – Method 6010B lead analysis; RPD for lead result in the laboratory duplicate sample 115975-006A-DUP was 27.1%, and the RPD for lead result in the laboratory duplicate sample 115975-016A-DUP was 6.48%. Only one of the sample RPD values in this batch exceeded the control limit of 20%. Therefore, based on professional judgment results in soil samples associated with this QA/QC batch were not qualified as estimated "J."

- Laboratory batch ID 70098 – Method 6010B lead analysis; RPD for lead result in the laboratory duplicate sample 115975-026A-DUP was 82.3%, and the RPD for lead result in the laboratory duplicate sample 115975-036A-DUP was 12.8%. Only one of the sample RPD values in this batch exceeded the control limit of 20%. Therefore, based on professional judgment results in soil samples associated with this QA/QC batch were not qualified as estimated "J."

- Laboratory batch ID 70099 – Method 6010B lead analysis; the RPD for the lead result in the laboratory duplicate sample 115975-045A-DUP was 31.1%. The RPD value in this batch exceeded the control limit of 20%, therefore, lead results in soil samples associated with this QA/QC batch were qualified as estimated "J."

- Laboratory batch ID 70748 – Method 6010B arsenic analysis; the RPD for the arsenic result in the laboratory duplicate sample 115975-043A-DUP was 42.5%. The RPD value exceeded the control limit of 20%, therefore, arsenic results in soil samples associated with this QA/QC batch were qualified as estimated "J."

- Laboratory batch ID 70748 – Method 6010B cobalt analysis; the RPD for cobalt result in the laboratory duplicate sample 115975-043A-DUP was 35.9% The RPD value exceeds the control limit of 20%, therefore, cobalt results in soil samples associated with this QA/QC batch were qualified as estimated "J."

- Laboratory batch ID 70748 – Method 6010B copper analysis; the RPD for copper results in the laboratory duplicate sample 115975-043A-DUP was 20.0%. The RPD value equaled the control limit of 20%, therefore, therefore copper results in soil samples associated with this QA/QC batch were qualified as estimated "J."

- Laboratory batch ID 70748 – Method 6010B molybdenum analysis; the RPD for molybdenum result in the laboratory duplicate sample 115975-043A-DUP was

22.4%. The RPD value exceeded the control limit of 20%, therefore, molybdenum results in soil samples associated with this QA/QC batch were qualified as estimated “J.”

- Laboratory batch ID 70748 – Method 6010B nickel analysis; the RPD for nickel results in the laboratory duplicate sample 115975-043A-DUP was 29.5%. The RPD value exceeded the control limit of 20%, therefore, nickel results in soil samples associated with this QA/QC batch were qualified as estimated “J.”

- Laboratory batch ID 70748 – Method 6010B zinc analysis; the RPD for zinc result in the laboratory duplicate sample 115975-043A-DUP was 30.0%. The RPD value exceeded the control limit of 20%, therefore, zinc results in soil samples associated with this QA/QC batch were qualified as estimated “J.”

- Laboratory batch ID 72172 – Method 6010B arsenic analysis; the RPD result in the laboratory duplicate sample 116888-051A-DUP was 33.7%, which exceeded the control limit of 20%. Therefore, the arsenic results associated with this batch were qualified as estimated “J.”

- Laboratory batch ID 72172 – Method 6010B molybdenum analysis; the RPD result in the laboratory duplicate sample 116888-051A-DUP was 20.1%, which exceeded the control limit of 20%. Therefore, the molybdenum results associated with this batch were qualified as estimated “J.”

- Laboratory batch ID 71698 – Method 6010B lead analysis; the RPD result in the laboratory duplicate sample 116888-050A-DUP was 34.2%, which exceeded the control limit of 20%. However, the RPD result for laboratory duplicate sample 116888-040A-DUP, which is also associated with this batch, was within the control limit at 4.42%. Therefore, based on professional judgment the lead results associated with this batch were not qualified.

- Laboratory batch ID 71699 – Method 6010B lead analysis; the RPD result in the laboratory duplicate sample 116888-009A-DUP was 63.5%, the analyte detected above the control range of 0 to 20%. Therefore, based on professional judgment the lead results associated with this batch were qualified as estimated “J.”

- Laboratory batch ID 70170 – Method 6010B lead analysis; the RPD result in the laboratory duplicate sample 116006-010A-DUP was 36.2%, the RPD result in the second laboratory duplicate sample 116006-020-DUP was 0.886%. The analyte detected above the control limit of 20% in the first sample and within control limit in the second method sample. Therefore, based on professional judgment the lead results associated with this batch were not qualified.

- Laboratory batch ID 70171 – Method 6010B lead analysis; RPD result in the laboratory duplicate sample 116006-040A-DUP and 116006-030A-DUP were 27.3% and 26.7%, which exceeded the control limit of 20%. Therefore, based on professional judgment the lead results associated with this batch were qualified as estimated "J."

- Laboratory batch ID 70172 – Method 6010B lead analysis; the RPD results in the laboratory duplicate sample 116006-050A-DUP was 26.9%, the RPD result in the second laboratory duplicate sample 116042-007A-DUP was 3.76%. The analyte detected above the limit of 20% in the first sample and within the control limit in the second method sample. Therefore, based on professional judgment the lead results associated with this batch were not qualified.

- Laboratory batch ID 70173 – Method 6010B lead analysis; the RPD results in the laboratory duplicate sample 116042-017A-DUP and 116042-027A-DUP were 100% and 68.0%, which exceeded the control limit of 20%. Therefore, based on professional judgment the lead results associated with this batch were qualified as estimated "J."

- Laboratory batch ID 70174 – Method 6010B lead analysis; RPD result in the laboratory duplicate sample 116042-037A-DUP and 116042-046A-DUP was 6.11% and 24.0%, the RPD result in the second laboratory duplicate sample was detected above the control limit of 20%, however the first sample was within limits. Therefore, based on professional judgment the lead results associated with this batch were not qualified.

1.6 MATRIX SPIKE/MATRIX SPIKE DUPLICATE SAMPLES

The laboratory also analyzed MS/MSD samples to assess data accuracy. The purpose of spiked samples is to evaluate the effect of the matrix on a method's recovery efficiency (percent recovery). A sample prepared by adding a known concentration of a target analyte to an aliquot of a specific homogenized environmental sample for which an independent estimate of the target analyte concentration is available. The matrix spike is accompanied by an independent analysis of the unspiked aliquot of the environmental sample. Only MS/MSD samples collected on site are considered appropriate for assessing matrix conditions. When recoveries from MS/MSD samples exceeded acceptance limits for both the primary and duplicate samples, the detections are qualified as estimated biased high (J+), and the non-detects are not qualified. When recoveries from MS/MSD samples were less than compound-specific acceptance limits, the detections are qualified as estimated biased low (J–) and non-detects are qualified as estimated (UJ).

The purpose of matrix spike duplicate (MSD) samples is to evaluate the precision of the intralaboratory analytical process for specific analytes in a sample matrix. The duplicate sample is prepared simultaneously as a split with the matrix spike sample, and each is spiked with identical, known concentrations of targeted analyte(s). The precision is measured by the RPD between the spiked results. The percent recoveries and RPDs of target analytes were within the laboratory determined control limits with the following exception:

- Laboratory work order 115975 – Method 6010 zinc analysis; the %R for zinc results in the matrix spike sample 115975-011A-MS was 133%, which exceeded the control limit of 125%. The RPD for zinc results in the matrix spike duplicate sample 115975-011A-MSD was 37.3%, which exceeds the control limit of 20%. The analytical results associated with the analyte within the batch were qualified as estimated "J."

- Laboratory work order 116069 – Method 6010 lead analysis; the %R for lead results in matrix spike sample 116069-020A-MS was 34.6%, which exceeded the control limit of 20%. The %R for 116069-010A-MS was 82.1%, which is within the control range of 34-126%. Therefore, based on professional judgment results in soil samples associated with this QA/QC batch were not.

- Laboratory work order 116069 – Method Wet/EPA 74 lead analysis; the %R for lead results in the matrix spike sample 116069-036A-MS was 74.7%, which is below the control range of 80-120%. The %R for lead in the matrix spike

duplicate sample 116069-036A-MSD was 89.8%, which is within the control range of 80-120%. And the RPD for the MSD sample was 1.23% within the control limit of 20%. Therefore, based on professional judgment results in soil samples associated with this QA/QC batch were not qualified as estimated "J."

1.7 Summary of Qualified Data

All other quality assurance data met the acceptance criteria for soil samples. Except for the qualified data discussed above, the results of field and laboratory quality control indicate that the sampling and analysis were performed consistent with the analytical methods. Overall, the results of the QA/QC review indicate that the test results are valid and usable. The following table summarizes the sample data warranting qualification based on the data review elements discussed above.

Sample ID	Compound	Laboratory Work Order Number	Analytical Method	Qualified Result	Units
116888-051A	Antimony	116888	USEPA Method 6010B	0.67 J	mg/kg
116888-047A	Antimony	116888	USEPA Method 6010B	0.71 J	mg/kg
116888-040A	Antimony	116888	USEPA Method 6010B	0.78 J	mg/kg
116888-040A	Mercury	116888	USEPA Method 7471A	0.045 J	mg/kg
116888-047A	Mercury	116888	USEPA Method 7471A	0.073 J	mg/kg
116888-051A	Mercury	116888	USEPA Method 7471A	0.047 J	mg/kg
116888-040A	Arsenic	116888	USEPA Method 6010B	5.4 J	mg/kg
116888-047A	Arsenic	116888	USEPA Method 6010B	4.2 J	mg/kg
116888-051A	Arsenic	116888	USEPA Method 6010B	2.2 J	mg/kg
116888-040A	Molybdenum	116888	USEPA Method 6010B	9.6 J	mg/kg
116888-047A	Molybdenum	116888	USEPA Method 6010B	11 J	mg/kg
116888-051A	Molybdenum	116888	USEPA Method 6010B	6.6 J	mg/kg
116888-001A	Lead	116888	USEPA Method 6010B	0.90 J	mg/kg
116888-002A	Lead	116888	USEPA Method 6010B	0.44 J	mg/kg
116888-003A	Lead	116888	USEPA Method 6010B	0.80 J	mg/kg
116888-004A	Lead	116888	USEPA Method 6010B	0.81 J	mg/kg
116888-005A	Lead	116888	USEPA Method 6010B	1.4 J	mg/kg
116888-006A	Lead	116888	USEPA Method 6010B	0.60 J	mg/kg
116888-007A	Lead	116888	USEPA Method 6010B	1.2 J	mg/kg
116888-008A	Lead	116888	USEPA Method 6010B	1.1 J	mg/kg
116888-009A	Lead	116888	USEPA Method 6010B	0.91 J	mg/kg
116888-010A	Lead	116888	USEPA Method 6010B	1.4 J	mg/kg
116888-011A	Lead	116888	USEPA Method 6010B	1.1 J	mg/kg
116888-012A	Lead	116888	USEPA Method 6010B	1.4 J	mg/kg
116888-013A	Lead	116888	USEPA Method 6010B	0.69 J	mg/kg

116888-014A	Lead	116888	USEPA Method 6010B	0.79 J	mg/kg
116888-015A	Lead	116888	USEPA Method 6010B	0.79 J	mg/kg
116888-016A	Lead	116888	USEPA Method 6010B	0.37 J	mg/kg
116888-017A	Lead	116888	USEPA Method 6010B	0.87 J	mg/kg
116888-018A	Lead	116888	USEPA Method 6010B	0.57 J	mg/kg
116888-019A	Lead	116888	USEPA Method 6010B	1.2 J	mg/kg
116888-020A	Lead	116888	USEPA Method 6010B	1.3 J	mg/kg
116888-021A	Lead	116888	USEPA Method 6010B	1.3 J	mg/kg
116888-022A	Lead	116888	USEPA Method 6010B	0.64 J	mg/kg
116888-023A	Lead	116888	USEPA Method 6010B	0.88 J	mg/kg
116888-024A	Lead	116888	USEPA Method 6010B	1.6 J	mg/kg
116888-025A	Lead	116888	USEPA Method 6010B	0.39 J	mg/kg
116888-026A	Lead	116888	USEPA Method 6010B	0.72 J	mg/kg
116888-027A	Lead	116888	USEPA Method 6010B	0.61 J	mg/kg
116888-028A	Lead	116888	USEPA Method 6010B	1.0 J	mg/kg
116888-029A	Lead	116888	USEPA Method 6010B	0.52 J	mg/kg
116888-030A	Lead	116888	USEPA Method 6010B	2.0 J	mg/kg
116888-051A	Lead	116888	USEPA Method 6010B	170 J	mg/kg
116888-052A	Lead	116888	USEPA Method 6010B	17 J	mg/kg
116888-053A	Lead	116888	USEPA Method 6010B	1.5 J	mg/kg
116888-054A	Lead	116888	USEPA Method 6010B	7.6 J	mg/kg
116888-055A	Lead	116888	USEPA Method 6010B	3.0 J	mg/kg
116006-021A	Lead	116006	USEPA Method 6010B	8.6 J	mg/kg
116006-022A	Lead	116006	USEPA Method 6010B	6.5 J	mg/kg
116006-023A	Lead	116006	USEPA Method 6010B	15 J	mg/kg
116006-024A	Lead	116006	USEPA Method 6010B	11 J	mg/kg
116006-025A	Lead	116006	USEPA Method 6010B	7.7 J	mg/kg
116006-026A	Lead	116006	USEPA Method 6010B	9.5 J	mg/kg
116006-027A	Lead	116006	USEPA Method 6010B	120 J	mg/kg
116006-028A	Lead	116006	USEPA Method 6010B	130 J	mg/kg
116006-029A	Lead	116006	USEPA Method 6010B	48 J	mg/kg
116006-030A	Lead	116006	USEPA Method 6010B	17 J	mg/kg
116006-031A	Lead	116006	USEPA Method 6010B	30 J	mg/kg
116006-032A	Lead	116006	USEPA Method 6010B	36 J	mg/kg
116006-033A	Lead	116006	USEPA Method 6010B	28 J	mg/kg
116006-034A	Lead	116006	USEPA Method 6010B	11 J	mg/kg
116006-035A	Lead	116006	USEPA Method 6010B	48 J	mg/kg
116006-036A	Lead	116006	USEPA Method 6010B	11 J	mg/kg
116006-037A	Lead	116006	USEPA Method 6010B	19 J	mg/kg
116006-038A	Lead	116006	USEPA Method 6010B	190 J	mg/kg
116006-039A	Lead	116006	USEPA Method 6010B	240 J	mg/kg
116006-040A	Lead	116006	USEPA Method 6010B	170 J	mg/kg

116042-008A	Lead	116042	USEPA Method 6010B	4.9 J	mg/kg
116042-009A	Lead	116042	USEPA Method 6010B	27 J	mg/kg
116042-010A	Lead	116042	USEPA Method 6010B	4.8 J	mg/kg
116042-011A	Lead	116042	USEPA Method 6010B	6.8 J	mg/kg
116042-012A	Lead	116042	USEPA Method 6010B	15 J	mg/kg
116042-013A	Lead	116042	USEPA Method 6010B	11 J	mg/kg
116042-014A	Lead	116042	USEPA Method 6010B	43 J	mg/kg
116042-015A	Lead	116042	USEPA Method 6010B	6.0 J	mg/kg
116042-016A	Lead	116042	USEPA Method 6010B	7.5 J	mg/kg
116042-017A	Lead	116042	USEPA Method 6010B	6.0 J	mg/kg
116042-018A	Lead	116042	USEPA Method 6010B	110 J	mg/kg
116042-019A	Lead	116042	USEPA Method 6010B	64 J	mg/kg
116042-020A	Lead	116042	USEPA Method 6010B	40 J	mg/kg
116042-021A	Lead	116042	USEPA Method 6010B	47 J	mg/kg
116042-022A	Lead	116042	USEPA Method 6010B	38 J	mg/kg
116042-023A	Lead	116042	USEPA Method 6010B	47 J	mg/kg
116042-024A	Lead	116042	USEPA Method 6010B	76 J	mg/kg
116042-025A	Lead	116042	USEPA Method 6010B	21 J	mg/kg
116042-026A	Lead	116042	USEPA Method 6010B	14 J	mg/kg
116042-027A	Lead	116042	USEPA Method 6010B	7.4 J	mg/kg
115975-037A	Lead	115975	USEPA Method 6010B	9.1 J	mg/kg
115975-038A	Lead	115975	USEPA Method 6010B	140 J	mg/kg
115975-039A	Lead	115975	USEPA Method 6010B	36 J	mg/kg
115975-040A	Lead	115975	USEPA Method 7471A	280 J	mg/kg
115975-041A	Lead	115975	USEPA Method 6010B	21 J	mg/kg
115975-042A	Lead	115975	USEPA Method 6010B	150 J	mg/kg
115975-043A	Lead	115975	USEPA Method 6010B	290 J	mg/kg
115975-044A	Lead	115975	USEPA Method 6010B	46 J	mg/kg
115975-045A	Lead	115975	USEPA Method 6010B	150 J	mg/kg
115975-011A	Zinc	115975	USEPA Method 6010B	61 J	mg/kg
115975-030A	Zinc	115975	USEPA Method 6010B	200 J	mg/kg
115975-038A	Zinc	115975	USEPA Method 6010B	51 J	mg/kg
115975-040A	Zinc	115975	USEPA Method 6010B	78 J	mg/kg
115975-043A	Arsenic	115975	USEPA Method 6010B	8.5 J	mg/kg
115975-043A	Cobalt	115975	USEPA Method 6010B	8.2 J	mg/kg
115975-043A	Copper	115975	USEPA Method 6010B	26 J	mg/kg
115975-043A	Molybdenum	115975	USEPA Method 6010B	4.2 J	mg/kg
115975-043A	Nickel	115975	USEPA Method 6010B	32 J	mg/kg
115975-043A	Zinc	115975	USEPA Method 6010B	120 J	mg/kg

2.0 REFERENCES

U.S. EPA, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, Final, Office of Superfund Remediation and Technology Innovation, Washington, D.C., January.

XRF Analyzer Field Screening Total Lead At I-10 HOV project (EA 1170U1) /Pacific Ave. E/B On-Ramp on September 26, 2011 By OEECS Staff												
Reading No	**Time**	**Type**	**Duration**	**Units**	**LOCATION**	**Res**	**EScale**	**Pb**	**Pb Error**		**As**	**As Error**
			seconds									
1	9/26/2011 10:50	SHUTTER_CAL	55.77	cps		172.81	7.17					
2	9/26/2011 10:56	SOIL	90.97	ppm	A-1			44.86	6.52		11.91	5.22
3	9/26/2011 10:58	SOIL	90.56	ppm	A-1			46.35	6.64		8.36	5.19
4	9/26/2011 10:59	SOIL	90.6	ppm	A-1			53.41	6.87		< LOD	7.91
5	9/26/2011 11:09	SOIL	90.59	ppm	A-1			46.02	6.58		12.76	5.29
6	9/26/2011 11:19	SOIL	90.61	ppm	A-2			68.04	7.5		< LOD	8.52
7	9/26/2011 11:21	SOIL	91.66	ppm	A-2			55.63	6.99		< LOD	8.05
8	9/26/2011 11:26	SOIL	90.58	ppm	A-2			61.3	7.21		< LOD	8.31
9	9/26/2011 11:28	SOIL	90.59	ppm	A-2			61.52	7.28		< LOD	8.5
10	9/26/2011 11:30	SOIL	90.53	ppm	A-3			54.18	6.94		< LOD	7.99
11	9/26/2011 11:32	SOIL	90.59	ppm	A-3			49.99	6.69		< LOD	7.62
12	9/26/2011 11:33	SOIL	90.57	ppm	A-3			45.82	6.6		7.75	5.14
13	9/26/2011 11:35	SOIL	90.6	ppm	A-3			44.19	6.51		12.03	5.22
14	9/26/2011 11:37	SOIL	90.62	ppm	A-4			52.49	6.91		< LOD	7.97
15	9/26/2011 11:39	SOIL	90.59	ppm	A-4			49.07	6.69		< LOD	7.68
16	9/26/2011 11:46	SHUTTER_CAL	51.74	cps		169.35	7.17					
17	9/26/2011 11:48	SOIL	90.57	ppm	A-4			56.8	7.03		< LOD	8.08
18	9/26/2011 11:50	SOIL	90.61	ppm	A-4			50.88	6.78		< LOD	7.69
19	9/26/2011 11:52	SOIL	92.38	ppm	A-5			59.24	7.06		< LOD	8.04
20	9/26/2011 11:54	SOIL	90.95	ppm	A-5			53.58	6.89		< LOD	8.03
21	9/26/2011 11:55	SOIL	90.22	ppm	A-5			57.05	7.04		< LOD	8.11
22	9/26/2011 11:57	SOIL	90.58	ppm	A-5			59.9	7.13		12.57	5.68
23	9/26/2011 12:00	SOIL	90.25	ppm	A-6			57.55	7.08		< LOD	8.15
24	9/26/2011 12:04	SOIL	90.61	ppm	A-6			50.78	6.78		12.59	5.42
25	9/26/2011 12:05	SOIL	90.2	ppm	A-6			43.2	6.42		9.06	5.05
26	9/26/2011 12:07	SOIL	90.23	ppm	A-6			53.99	6.89		12.32	5.49

FOR CONTRACT NO. 07-1170U4
PROJECT NO. 0700000085

INFORMATION HANDOUT

Lead Variance

ROUTE: 07-LA-10 33.2/37.2

California Environmental Protection Agency
Department of Toxic Substances Control

VARIANCE

Applicant Names:

State of California
Department of Transportation
(Caltrans)
1120 N Street
Sacramento, California 95814

Variance No. V09HQSCD006

Effective Date: July 1, 2009

Expiration Date: July 1, 2014

Modification History:

Pursuant to California Health and Safety Code, Section 25143, the Department of Toxic Substances Control hereby issues the attached Variance consisting of 9 pages to the Department of Transportation.

Beverly Rikala
Team Leader, Operating Facilities Team
Department of Toxic Substances Control

Date: 6/30/09

1. INTRODUCTION.

a) Pursuant to Health and Safety Code, section 25143, the California Department of Toxic Substances Control (DTSC) grants this variance to the applicant below for waste considered to be hazardous solely because of its lead concentrations and as further specified herein.

b) DTSC hereby grants this variance only from the requirements specified herein and only in accordance with all terms and conditions specified herein.

2. IDENTIFYING INFORMATION.

APPLICANT/OWNER/OPERATOR

State of California
Department of Transportation, (Caltrans)
All Districts

3. TYPE OF VARIANCE.

Generation, Manifest, Transportation, Storage and Disposal.

4. ISSUANCE AND EXPIRATION DATES.

DATE ISSUED: July 1, 2009 EXPIRATION DATE: July 1, 2014

5. APPLICABLE STATUTES AND REGULATIONS. The hazardous waste that is the subject of this variance is fully regulated under Health and Safety Code, section 25100, et seq. and California Code of Regulations, title 22, division 4.5 except as specifically identified in Section 8 of this variance.

6. DEFINITION. For purposes of this variance, "lead-contaminated soil(s)" shall mean soil that meets the criteria for hazardous waste but contains less than 3397 mg/kg total lead and is hazardous primarily because of aerially-deposited lead contamination associated with exhaust emissions from the operation of motor vehicles.

7. FINDINGS/DETERMINATIONS. DTSC has determined that the variance applicant meets the requirements set forth in Health and Safety Code, section 25143 for a variance from specific regulatory requirements as outlined in Section 8 of this variance. The specific determinations and findings made by DTSC are as follows:

a) Caltrans intends to excavate, stockpile, transport, bury and cover large volumes of soil associated with highway construction projects. In the more urbanized highway corridors around the State this soil is contaminated with lead, primarily due to historic emissions from automobile exhausts. In situ sampling and laboratory testing has shown that some of the soil contains concentrations of lead in excess of State regulatory thresholds, and thus any generated waste from disturbance of the soil

would be regulated as hazardous waste. Such soil contains a Total Threshold Limit Concentration (TTLC) of 1000 milligrams per kilogram (mg/kg) or more lead and/or it meets or exceeds the Soluble Threshold Limit Concentration (STLC) for lead of 5 milligrams per liter (mg/l). A Human Health Risk Assessment prepared for this variance concludes that soil contaminated with elevated concentrations of lead can be managed in a way that presents no significant risk to human health.

b) The lead-contaminated soil will be placed only in Caltrans' right-of-way. Depending on concentration levels, the wastes will be covered with a minimum thickness of one (1) foot of non-hazardous soil or asphalt/concrete cover and will always be at least five (5) feet above the highest groundwater elevation. Caltrans will assure that proper health and safety procedures will be followed for workers, including any persons engaged in maintenance work in areas where the waste has been buried and covered.

c) DTSC finds and requires that the lead-contaminated soil excavated, stockpiled, transported, buried and covered pursuant to this variance is a non-RCRA hazardous waste, and that the waste management activity is insignificant as a potential hazard to human health and safety and the environment, when managed in accordance with the conditions, limitations and other requirements specified in this variance.

8. PROVISIONS WAIVED.

Provided Caltrans meets the terms and conditions of this variance, DTSC waives the hazardous waste management requirements of Health and Safety Code, Chapter 6.5 and California Code of Regulations, title 22 for the lead-contaminated soil that Caltrans reuses in projects that would require Caltrans to obtain a permit for a disposal facility and any other generator requirements that concern the transportation, manifesting, storage and land disposal of hazardous waste.

9. SPECIFIC CONDITIONS, LIMITATIONS AND OTHER REQUIREMENTS.

In order for the provisions discussed in section 8 to be waived, lead-contaminated soil must not exceed the contaminant concentrations discussed below and Caltrans management practices must meet all the following conditions:

a) Caltrans implementation of this variance shall comply with all applicable state laws and regulations for water quality control, water quality control plans, waste discharge requirements (including storm water permits), and others issued by the State Water Resources Control Board (SWRCB) and/or a California Regional Water Quality Control Board (RWQCB). Caltrans shall provide written notification to the appropriate RWQCB at least 30 days prior to advertisement for bids of projects that involve invocation of this variance, or as otherwise negotiated with the SWRCB or appropriate RWQCB.

b) The waivers in this variance shall only be applied to lead-contaminated soil that is not a RCRA hazardous waste and is hazardous primarily because of aerially-

deposited lead contamination associated with exhaust emissions from the operation of motor vehicles. The variance is not applicable to any other hazardous waste.

c) Soil containing 1.5 mg/l extractable lead or less (based on a modified waste extraction test using deionized water as the extractant) and 1411 mg/kg or less total lead may be used as fill provided that the lead-contaminated soil is placed a minimum of five (5) feet above the maximum historic water table elevation and covered with at least one (1) foot of nonhazardous soil that will be maintained by Caltrans to prevent future erosion.

d) Soil containing 150 mg/L extractable lead or less (based on a modified waste extraction test using deionized water as the extractant) and 3397 mg/kg or less total lead may be used as fill provided that the lead-contaminated soils are placed a minimum of five (5) feet above the maximum historic water table elevation and protected from infiltration by a pavement structure which will be maintained by Caltrans.

e) Lead-contaminated soil with a pH less than 5.5 but greater than 5.0 shall only be used as fill material under the paved portion of the roadway. Lead-contaminated soil with a pH at or less than 5.0 shall be managed as a hazardous waste.

f) For each project that has the potential to generate waste by disturbing lead-contaminated soil (as defined in 6), Caltrans shall conduct sampling and analysis to adequately characterize the soils containing aerially deposited lead in the areas of planned excavation along the project route. Such sampling and analysis shall include the Toxicity Characteristic Leaching Procedure (TCLP) as prescribed by the United States Environmental Protection Agency to determine whether concentrations of contaminants in soil exceed federal criteria for classification as a hazardous waste.

g) Lead-contaminated soil managed pursuant to this variance shall not be moved outside the designated corridor boundaries (see paragraph t) below. All lead-contaminated soil not buried and covered within the same Caltrans corridor where it originated is not eligible for management under this variance and shall be managed as a hazardous waste.

h) Lead-contaminated soil managed pursuant to this variance shall not be placed in areas where it would become in contact with groundwater or surface water (such as streams and rivers).

i) Lead-contaminated soil managed pursuant to this variance shall be buried and covered only in locations that are protected from erosion that may result from storm water run-on and run-off.

j) The lead-contaminated soil shall be buried and covered in a manner that will prevent accidental or deliberate breach of the asphalt, concrete, and/or cover soil.

k) The presence of lead-contaminated soil shall be incorporated into the projects' as-built drawings. The as-built drawings shall be annotated with the location, representative analytical data, and volume of lead-contaminated soil. The as-built drawings shall also state the depth of the cover. These as-built drawings shall be retained by Caltrans.

l) Caltrans shall ensure that no other hazardous wastes, other than the lead-contaminated hazardous waste soil, are placed in the burial areas.

m) Lead-contaminated soil shall not be buried within ten (10) feet of culverts or locations subject to frequent worker exposure.

n) Excavated lead-contaminated soil not placed into the designated area (fill area, roadbed area) by the end of the working day shall be stockpiled and covered with sheets of polyethylene or at least one foot of non-hazardous soil. The lead-contaminated soil, while stockpiled or under transport, shall be protected from contacting surface water and from being dislodged or transported by wind or storm water. The stockpile covers shall be inspected at least once a week and within 24 hours after rainstorms. If the lead-contaminated soil is stockpiled for more than 4 days from the time of excavation, Caltrans shall restrict public access to the stockpile by using barriers that meet the safety requirements of the construction zone. The lead-contaminated soil shall be stockpiled for no more than 90 days from the time the soil is first excavated. If the contaminated soil is stockpiled beyond the 90 day limit Caltrans shall:

1. notify DTSC in writing of the 90 day exceedance and expected date of removal;
2. perform weekly inspections of the stockpiled material to ensure that there is adequate protection from run-on, runoff, public access, and wind dispersion; and
3. notify DTSC on weekly basis of the stockpile status until the stockpile is removed.

The lead-contaminated soil shall be stockpiled for no more than 180 days from the time the soil is first excavated.

o) Caltrans shall ensure that all stockpiling of lead-contaminated soil remains within the project area of the specified corridor. Stockpiling of lead-contaminated soil within the specified corridor, but outside the project area, is prohibited.

p) Caltrans shall conduct confirmatory sampling of any stockpile area in areas not known or expected to contain lead-contaminated soil after removal of the lead-contaminated soil to ensure that contamination has not been left behind or has not migrated from the stockpiled material to the surrounding soils.

q) Caltrans shall stockpile lead-contaminated soil only on high ground (i.e. no sump areas or low points) so that stockpiled soil will not come in contact with surface

water run-on or run-off.

r) Caltrans shall not stockpile lead-contaminated soil in environmentally and ecologically sensitive areas.

s) Caltrans shall ensure that storm/rain run-off that has come into contact with stockpiled lead-contaminated soil will not flow to storm drains, inlets, or waters of the State.

t) Caltrans may dispose of the lead-contaminated soil only within the operating right-of-way of an existing highway, as defined in Streets and Highways Code, section 23. Caltrans may move lead-contaminated soil from one Caltrans project to another Caltrans project only if the lead-contaminated soil remains within the same designated corridor.

Caltrans shall record any movement of lead-contaminated soil by using a bill of lading. The bill of lading must contain: 1) the US DOT description including shipping name, hazard class and ID number; 2) handling codes; 3) quantity of material; 4) volume of material; 5) date of shipment; 6) origin and destination of shipment; and 7) any specific handling instructions. The bill of lading shall be referenced in and kept on file with the project's as-built drawings. The lead-contaminated soil must be kept covered during transportation.

u) For each specific corridor where this variance is to be implemented, all of the following information shall be submitted in writing to DTSC at least five (5) days before construction of any project begins:

1. plan drawing designating the boundaries of the corridor where lead-contaminated soils will be excavated, stockpiled, buried and covered;

2. a list of the Caltrans projects that the corridor encompasses;

3. a list of Caltrans contractors that will be conducting any phase of work on any project affected by this variance;

4. duration of corridor construction;

5. location where sampling and analytical data used to make lead concentration level determinations are kept (e.g. a particular Caltrans project file);

6. name and phone number (including area code) of project resident engineer and project manager;

7. location where Caltrans and contractor health and safety plan and records are kept;

8. location of project special provisions (including page or section number) for soil excavation, transportation, stockpile, burial and placement of cover material;

9. location of project drawings (including drawing page number) for soil excavation, burial and placement of cover in plan and cross section (for example, "The project plans are located at the resident engineer's office located at 5th and Main Streets, City of Fresno, See pages xxxxx of contract xxxx");

10. updated information if a Caltrans project within the corridor is added, changed or deleted; and

11. type of environmental document prepared for each project, date of adoption, document title, Clearing House number and where the document is available for review. A copy of the Caltrans Categorical Exemption, Categorical Exclusion Form, or if filed, the Notice of Exemption for any project shall be submitted to the DTSC Headquarters Project Manager.

v) Changes in location of lead-contaminated soil placement, quantities or protection measures (field changes) shall be noted in the resident engineer's project log within five (5) days of the field change.

w) Caltrans shall ensure that field changes are in compliance with the requirements of this variance.

x) Operational procedures described in the California Environmental Quality Act (CEQA) Special Initial Study shall be followed by Caltrans for activities conducted under this variance.

y) Caltrans shall implement appropriate health and safety procedures to protect its employees and the public, and to prevent or minimize exposure to potentially hazardous wastes. A project-specific health and safety plan must be prepared and implemented. The monitoring and exposure standards shall be based on construction standards for exposure to lead in California Code of Regulations, title 8, section 1532.1.

z) Caltrans shall provide a district Coordinator for this variance. This Coordinator will be the primary point of contact for information flowing to, or received from, DTSC regarding any matter or submission under this variance. Caltrans shall promptly notify DTSC of the name of Coordinator and any change in the Coordinator.

aa) Caltrans shall conduct regular inspections, consistent with Caltrans' Maintenance Division's current Pavement Inspection and Slope Inspection programs, of the locations where lead-contaminated soil has been buried and/or covered pursuant to this variance. If site inspection reveals deterioration of cover so that conditions in the variance are not met, Caltrans shall repair or replace the cover.

bb) Caltrans shall develop and implement a record keeping mechanisms to record and retain permanent records of all locations where lead-contaminated soil has been buried per this variance. The records shall be made available to DTSC.

cc) If areas subject to the terms of this variance are sold, relinquished or abandoned (including roadways), all future property owners shall be notified in writing in advance by Caltrans of the requirements of this variance, and Caltrans shall provide the owner with a copy of the variance. A copy of such a notice shall be sent to DTSC and contain the corridor location and project. Caltrans shall also disclose to DTSC and the new owner the location of areas where lead-contaminated soil has been buried. Future property owners shall be subject to the same requirements as Caltrans.

dd) For the purposes of informing the public about instances where the variance is implemented, Caltrans shall:

1. maintain current fact sheets at all Caltrans resident engineer offices and the Caltrans District office. Caltrans shall make the fact sheets available to anyone expressing an interest in variance-related work.

2. maintain a binder(s) containing copies of all reports submitted to DTSC at the District office. Caltrans shall ensure that the binders are readily accessible to the public.

3. carry out the following actions when it identifies additional projects:

(A) notify the public via a display advertisement in a newspaper of general circulation in that area.

(B) update and distribute the fact sheet to the mailing list and repository locations.

ee) Lead-contaminated soil may be buried only in areas where access is limited or where lead-contaminated soil is covered and contained by a pavement structure.

ff) Dust containing lead-contaminated soil must be controlled. Water or dust palliative may be applied to control dust. If visible dust migration occurs, all excavation, stockpiling and truck loading and burying must be stopped. The granting of this variance confers no relief on Caltrans from compliance with the laws, regulations and requirements enforced by any local air district or the California Air Resources Board.

gg) Sampling and analysis is required to show the lead-contaminated soil meets the variance criteria. All sampling and analysis must be conducted in accordance with the appropriate methods specified in U.S. EPA SW-846.

hh) DTSC retains the right to require Caltrans or any future owner to remove, and properly dispose of, lead-contaminated soil in the event DTSC determines it is necessary for protection of public health, safety or the environment.

ii) DTSC finds that some projects involving lead-contaminated soil are joint projects between Caltrans and other government entities. In these joint projects, Caltrans may not be the lead agency implementing the project although Caltrans is still involved if the project occurs on its right-of-way.

Caltrans may invoke this variance for joint projects where Caltrans and local government entity are involved provided that 1) the project is within the Caltrans Right-of-Way; 2) Caltrans reviews/ oversees all phases of the project including design, contracting, environmental assessment, construction, operation, and maintenance; and 3) Caltrans oversees the project to verify all variance conditions are complied with. Caltrans will be fully responsible for the variance notification and implementation in these joint projects.

jj) All correspondence shall be directed to the following office:

Hazardous Waste Permitting
Department of Toxic Substances Control
8800 Cal Center Drive
Sacramento, CA 95826

Attn: Caltrans Lead Variance Notification Unit

10. DISCLAIMER.

a) The issuance of this variance does not relieve Caltrans of the responsibility for compliance with Health and Safety Code, chapter 6.5, or the regulations adopted thereunder, and any other laws and regulations other than those specifically identified in Section 8 of this variance. Caltrans is subject to all terms and conditions herein. The granting of this variance confers no relief from compliance with any federal, State or local requirements other than those specifically provided herein.

b) The issuance of this variance does not release Caltrans from any liability associated with the handling of hazardous waste, except as specifically provided herein and subject to all terms and conditions of this variance.

11. VARIANCE MODIFICATION OR REVOCATION. This variance is subject to review at the discretion of DTSC and may be modified or revoked by DTSC upon change of ownership and at any other time pursuant to Health and Safety Code, section 25143.

12. CEQA DETERMINATION. DTSC adopted a Negative Declaration on June 30, 2009.

Approved:

6/30/09
Date

Beverly Rikala
Operating Facilities Team
Department of Toxic Substances Control

FOR CONTRACT NO. 07-1170U4
PROJECT NO. 0700000085

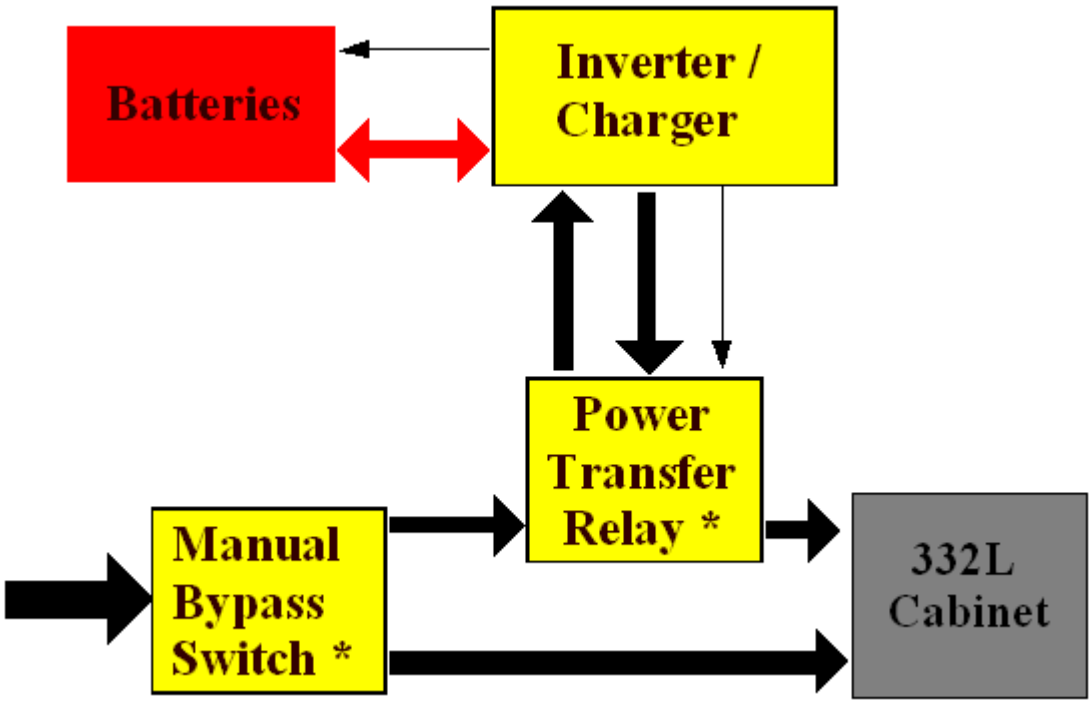
INFORMATION HANDOUT

Battery backup system connection diagrams and foundation details

ROUTE: 07-LA-10 33.2/37.2

SPECIFICATIONS FOR BATTERY BACK-UP SYSTEM

TEES
CHAPTER 4



July 7, 2009

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

Arnold Schwarzenegger
Governor

Dale Bonner
Secretary
Business, Transportation &
Housing Agency

Will Kempton
Director
Department of
Transportation

Michael Miles
Deputy Director
Maintenance and Operations

Robert Copp
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Chief, Office ITS Projects and Standards

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CHAPTER 4
BATTERY BACKUP SYSTEM
SPECIFICATIONS

CHAPTER 4-SECTION A
GLOSSARY

AC	Alternating Current
ANSI	American National Standards Institute
AWG	American Wire Gage
BBS	Battery Backup System
E-BBS	External Battery Backup System Cabinet
DC	Direct Current
IEEE	Institute of Electrical and Electronics Engineers
EIA	Electronic Industries Association
ITE	Institute of Transportation Engineers
KVA	Kilovolt-Ampere
LED	Light Emitting Diode
LCD	Liquid Chrystal Display
NEMA	National Electrical Manufacturers Association
NC	Normally Close
NO	Normally Open
OD	Outside Diameter
PTR	Power Transfer Relay
UL	Underwriters Laboratories
TB	Terminal Block
THD	Total Harmonic Distortion
UV	Ultraviolent Light
VDC	Volts DC
VA	Voltage Ampere
VAC	Voltage Alternating Current

CHAPTER 4-SECTION 1
GENERAL

4.1.1 Minimum Requirements

This specification establishes the minimum requirements for a complete emergency battery backup system for use with Light Emitting Diode (LED) Traffic Signal Modules.

The BBS shall be designed for outdoor applications in accordance with the Caltrans Transportation Electrical Equipment Specifications (TEES), dated March 12, 2009, Chapter 1 requirements.

4.1.2 Battery Backup System Configuration

The Battery Backup System (BBS) shall include, but not be limited to the following:

Inverter/Charger, Power Transfer Relay, a separate manually operated non-electronic Bypass Switch **(See A4-1 – BBS Block Diagram)** and all necessary hardware and interconnect wiring.

4.1.3 System Reliability

The BBS shall provide reliable emergency power to a traffic signal system (Vehicle and Pedestrian Traffic) in the event of a power failure or interruption.

The BBS shall be capable of providing power for full run-time operation for an "LED-only" intersection (all colors: red, yellow, green and pedestrian heads) or flashing mode operation for an intersection using Red LED's.

CHAPTER 4-SECTION 2
OPERATION

4.2.1 Compatibility

The BBS shall be compatible with NEMA, Caltrans 332L Cabinets, Model 170E Controllers, Model 2070 Controllers and cabinet components for full time operation.

4.2.2 Run-Time

The BBS shall provide a minimum two (2) hours of full run-time operation for an "LED-only" intersection.

4.2.3 Output Capacity

The BBS shall be able to provide a minimum of 1000W @ +25ºC, continuous active output capacity, with 80% minimum inverter efficiency while running in Backup Mode (on batteries).

4.2.4 Output Voltage

When operating in Backup mode, the BBS output shall be 120 VAC ± 5 VAC, pure sine wave output, ≤ 3% THD, 60 Hz ± 0.05 Hz.

4.2.5 DC System Voltage

The BBS DC system voltage shall be either 24 VDC or 48 VDC.

4.2.6 Transfer Time

The maximum transfer time allowed, from disruption of normal utility line voltage to stabilized Backup Mode line voltage, shall be no greater than 40 milliseconds. The same maximum allowable transfer time shall also apply when switching from Backup Mode line voltage back to utility line voltage.

4.2.7 Operating Temperature

The operating temperature for the inverter/charger, power transfer relay and manual bypass switch shall be –37 °C to +74 °C. Additionally, all components and parts used shall, at the very least, be rated for that temperature range.

4.2.8 AC Feedback

The BBS shall be equipped to prevent a malfunction feedback to the cabinet or from feeding back to the utility service.

4.2.8.1 Feedback Level

In the event that the AC service feeding the BBS is severed, or there is a utility black-out, the AC voltage measured at the AC inputs to the BBS (Line to Neutral), shall be less than 1 VAC.

4.2.9 Surge Protection

The BBS shall have lightning surge protection compliant with IEEE/ANSI C.62.41 and must be able to withstand 2000 volt surges applied 50 times across line and neutral. These surges shall not cause the BBS to transfer to Backup mode.

4.2.10 Power & Control Connections

The BBS shall be easily installed, replaced, or removed by using easily removable cables for AC input , AC output, DC input, external transfer relay control and battery temperature sense.

4.2.10.1 AC Connection

The AC input and output shall be panel mounted plug / receptacles that allow no possibility of accidental exposure to dangerous voltages (male receptacle for AC Input and female receptacle for AC Output). The receptacles shall utilize some form of locking mechanism or hold down clamps to in order to prevent any accidental disconnects.

4.2.10.2 DC Connection

The DC connection shall be a recessed one or two piece Anderson style receptacle.

4.2.10.3 Relay / Temperature Probe Connections

The external power transfer relay control and the battery temperature sense inputs shall be heavy duty panel-mounted style connectors.

4.2.10.4 General Connections

All connections shall provide mechanically and electrically secure connections without the use of a screwdriver. The only exception will be the 18-position Relay Terminal Block which shall require a small screwdriver for holding down the relay wires.

4.2.11 Relay / Switch Ratings

The Power Transfer Relay and Manual Bypass Switches shall be rated at 240VAC/30 amps, minimum.

4.2.12 Unit Failure

In the event of inverter/charger failure, battery failure or complete battery discharge, the power transfer relay shall revert to the NC (and de-energized) state, where utility line power is connected to the cabinet.

4.2.13 Overload

The BBS must be able to shutdown in order to protect against internal damage in the event of an overload at the output.

4.2.14 Bypass

Placing the Manual Bypass Switch into “Bypass” shall cut AC Utility power to the Inverter/Charger and route it directly to the 332L Cabinet. In this condition, if the

inverter is then disabled and the batteries disconnected from the system, the Inverter/Charger unit shall be completely de-energized and shall be safe to remove from the intersection system, while still allowing the intersection to function normally.

CHAPTER 4-SECTION 3
FUNCIONALITY, DISPLAYS AND CONTROLS

4.3.1 STANDBY Mode

The BBS shall be provided with a STANDBY mode. In this mode, the utility AC voltage shall be passed directly to the output. The system will transfer to Backup mode at user defined, low and high cutoff voltage level transfer set points that are adjustable between 90 and 135 VAC (the default shall be 100 and 130 VAC). The BBS will automatically apply a 5 VAC difference for the return transfer points.

4.3.1.1 Low & High Cutoff

When the BBS is in STANDBY mode (Buck / Boost is Disabled), the BBS shall bypass the utility line power whenever the utility line voltage is outside of the transfer set points (± 2 VAC).

4.3.1.2 Low Restore

In cases of low (below the low voltage transfer set point), or absent utility line voltage, when the utility line voltage has been restored at or above 5 VAC ± 2 VAC of the low transfer set point for more than 30 seconds (or the user configured line qualify time), the BBS shall transfer from Backup Mode back to Utility Line Mode.

4.3.1.3 High Restore

In cases of high (above the high voltage transfer set point) utility line voltage, when the utility line voltage has been restored at or below 5 VAC ± 2 VAC of the high transfer set point for more than 30 seconds (or the user configured line qualify time), the BBS shall transfer from Backup Mode back to Utility Line Mode.

4.3.2 Buck / Boost "Line-Interactive" Mode

The Buck / Boost mode of the BBS shall have a minimum range of 90 – 150 VAC. There shall not be any user configurable transfer set point for the Buck / Boost mode. Whenever Buck / Boost mode is selected, the output of the system shall be regulated between 100 – 130 VAC. When the output of the system can no longer be maintained within that range, the BBS shall transfer to Backup Mode.

4.3.3 Line Qualify Time

The BBS shall have a user adjustable line qualify time. There will be a minimum of three (3) settings possible. The minimum settings shall be 3 seconds, 10 seconds, and 30 seconds. The default value shall be 30 seconds.

4.3.4 Display

The BBS shall have a backlit LCD type display that is easily seen in both bright sunlight and in darkness. The screen shall be large enough to display the following minimum information on a continuous basis; operating mode (STANDBY, Buck/Boost), utility input voltage, BBS output voltage, charger status, percent battery charge, battery voltage, BBS status (Standby, Backup, Buck, Boost), any alarms and faults, and relay status information.

4.3.5 Keypad

The BBS shall use a well defined keypad that includes arrow, enter and escape keys so that the user can efficiently navigate the menu system to make system programming changes and gather other status information.

4.3.6 Status LED's

In addition to the LCD display the BBS shall be provided with discrete status LED indicators. As a minimum, the Red "Fault" LED indicator shall be provided. The purpose of the indicators is to draw the user's attention to the LCD.

4.3.6.1 Green "Output" LED

This LED will be ON any time that the output of the BBS is modified, either by Backup Mode, or by Buck / Boost Modes.

4.3.6.2 Red "Fault" LED

This LED will be ON any time that there are any faults in the system.

4.3.6.3 Yellow "Alarm" LED

This LED will be ON any time that there are any alarms in the system.

4.3.7 Event Log & Counters

The BBS shall keep track of the number of times that the unit was in Backup, Buck and Boost modes and the total number of hours and minutes that the unit has operated in those modes since last reset. This information shall be displayed through the LCD and shall be available for viewing via the EIA-232 port and the Ethernet Interface.
The BBS shall also keep a running event log with the latest events. For each event, the log shall contain as a minimum, a date/time stamp, the current operating mode, and what the event was.

4.3.8 Programmable Relay Contacts

The BBS shall provide the user with six (6) programmable dry relay contacts. These relay contacts shall be rated for a minimum of 1 amp @ 125 VAC. When any relay is energized, it shall show up on the main screen of the LCD. As a minimum, the programming options will be, On Battery, Low Battery, Timer, Alarm, Fault, and Off.

4.3.8.1 On Battery Relay Contacts

The dry relay contacts that are configured for "On Battery" shall only energize when the Inverter is operating in Backup Mode.

4.3.8.2 Timer Relay Contacts

The BBS shall have a timer that will energize the dry relay contacts (when configured for "Timer") after the user configured time has elapsed. This timer is started when the BBS in the Backup mode. The user can configure the timer from 0 to 480 minutes, in a minimum of 15 minute increments. The default setting will be 120 minutes.

4.3.8.3 Low Battery Relay Contacts

The BBS shall have an adjustable low battery relay setting. This setting shall be adjustable so that the user can set the point at which the low battery relay energizes. This setting applies to any dry contact relay that is configured for "Low Battery".

4.3.8.4 Relay Contact Terminals

The relay contacts shall be made available on the front panel of the BBS via an 18-position, screw hold-down, printed circuit board mounted terminal block. Additional terminals are allowed so long as they are adequately identified and labeled.

4.3.8.4.1 Terminal Type

The relay contact terminal blocks shall conform to On-Shore Technology, type ED2200/22, or Phoenix Contact type FRONT 2,5-H/SA 5, or WECO type 180-A-111, or equivalent. The spacing between each terminal shall be 0.197" (5 mm), with the hold-down screw and wire entrance both on the same face, facing forward and in the horizontal axis. See **A4-3** for additional information.

4.3.8.4.2 Contacts

Each relay shall have their own common and their own set of normally open (NO) and normally closed (NC) terminals. The terminals for each relay shall be oriented as NO-C-NC, on the terminal block.

4.3.8.4.3 Labeling

The contacts of the terminal block shall be labeled 1…18, left to right. Additionally, each set of contacts shall be labeled with the NO-C-NC designation, as well as C1…C6, again, from left to right. Any remaining contacts on the terminal block shall be labeled as "Spare", unless used for some other purpose, in which case they shall be labeled as to their actual use.

4.3.9 Ventilation

There shall be adequate clearance in front of all BBS intakes and exhaust vents, and fans. Specifically, any venting on the back panel must be able to maintain adequate

airflow through the Inverter/Charger, by utilizing a method to prevent the back panel from being placed directly against the cabinet enclosure.

4.3.10 Battery Voltage Jacks

There shall be standard meter probe (0.08") input jacks (+RED) and (– BLACK) made available on the BBS front panel used to measure battery voltage externally.

4.3.11 Circuit Breakers

The BBS shall be equipped with both Input and Output AC circuit breakers, and with either a DC circuit breaker or fused battery harness.

4.3.12 Battery Charger

The BBS shall have an integral charger. The charger shall be a 3-step "Smart Charger" utilizing bulk, absorption and float charging techniques, appropriate for the battery type. The charger must prevent destructive discharge and overcharge.

4.3.12.1 Battery Type

The BBS shall operate with "AGM" type batteries.

4.3.12.2 Temperature Compensation

The integral 3-Step "Smart Charger" shall use temperature compensation. The charging system shall compensate over a range of 2.5 – 4.0 mV/cell/ºC.

4.3.12.3 Temperature Probe

A temperature sensor probe which plugs into the front panel of the BBS shall be used to monitor the internal temperature of the batteries. The temperature sensor wiring shall be at least 6'6" in length. The sensor shall be imbedded in a heavy duty 3/8" ring lug which can then be attached to one of the battery terminal posts.

4.3.12.4 Battery Temperature

The batteries shall not be recharged whenever the battery temperature exceeds 50ºC.

CHAPTER 4-SECTION 4
BATTERY HARNESS

4.4.1 Wiring Type

All battery harness interconnect wiring shall be via a two-part modular harness consisting of UL Style 1015 CSA TEW or Welding Style Cable, or equivalent. Wiring shall be of proper gauge with respect to design current and with sufficient strand count for flexibility and ease of handling.

4.4.2 Power Pole Connectors

Cable assembly shall be equipped with insulated, mating, one or two-piece Power Pole style connectors. When two-piece Power Pole style connectors are used, the positive terminal (+) shall be red, and the negative terminal (–) shall be black. Additionally, the two-piece connectors shall us a locking pin to prevent the connectors from separating.

4.4.3 Harness Construction

The Battery Harness and all Power Pole connectors shall be assembled to ensure proper polarity and circuit configuration throughout the entire harness.

4.4.4 Harness Part I – Battery Side

Part I of the harness shall consist of appropriate lengths (~12”) of appropriately colored (black for negative terminal, red for positive terminal), cable with 3/8” ring lug terminals on one end, for connecting to the battery terminals, and the appropriately colored one or two-piece power pole connector on the other side.

4.4.5 Harness Part II – BBS Side

Part II of the harness shall consist of multiple insulated power pole connectors for mating to the battery side harness (Part I), and a single insulated power pole connector for connecting to the BBS unit.

4.4.6 Harness Length

The harness length shall be a minimum of 12 inches between batteries and 72 inches between BBS unit and the first battery.

CHAPTER 4-SECTION 5
MOUNTING AND CONFIGURATION

4.5.1 EIA 19" Rack

All references mad to EIA rail or EIA 19" rack shall conform to Electronic Industries Standards EIA-310-D, Racks, Panels, and Associated Equipment with 10-32 "Universal Spacing" threaded holes.

4.5.2 Mounting Method and Space

The BBS shall be able to be shelf mounted or rack mounted on an EIA rail. The available space (Caltrans External BBS Cabinet) is 17.75 inches wide, 10.25 inches deep, and 12" high.

4.5.3 BBS Dimensions

The entire BBS, including the Inverter/Charger, Power Transfer Relay and Bypass Switch Assembly must be able to fit on the EIA rail and shelf in the dimensions specified above. Inverter/Charger dimensions shall be no greater than 17.5"W x 10.25"D x 6.0"H and with EIA mounting brackets attached must be able to install on the EIA rails.

4.5.4 Included Hardware

All necessary hardware for mounting shall be included in the bid price of the BBS. This shall include EIA mounting brackets, bolt and washers, cable ties, and adhesive backed panel-mount style cable tie holders.

4.5.4.1 Bolt and Washer Requirements

Bolts and washers shall meet the following requirements:

Screw Type:	Pan Head Phillips machine screw
Size and Thread Pitch:	10-32
Material:	18-8 stainless steel (Type 316 stainless steel is acceptable as an alternate)
Washer:	Use one flat washer (18-8 stainless steel) under the head of each 10-32 screw

4.5.4.2 Cable Ties and Cable Tie Holders

The amount and size of cable ties and the adhesive backed panel-mount style cable tie holders shall be adequate for the wire size of the particular BBS and be of sufficient quantity to neatly dress the full length of provided wire inside of External BBS Cabinet and/or 332A Cabinet.

4.5.5 Interconnect Wiring

All interconnect wiring shall be provided between Power Transfer Relay, Bypass Switch, and 332A Cabinet Terminal Service Block. This wiring shall be no less than 9' of UL Style 1015 CSA TEW with the following characteristics:

AWG Rating:	10 AWG
Stranding:	105 strands of 30 AWG tinned copper
Rating:	600 V, 105ºC, PVC Insulation

4.5.6 Relay Contact Wiring

Three (3) sets of relay contact wiring shall be provided. Each set shall be two twisted insulated conductors of UL Style 1015 CSA TEW 18 AWG wire, same ratings as above, except 16 strands of 30 AWG tinned copper.

4.5.7 Transfer Relay / Bypass Switch

The Power Transfer Relay and Bypass Switch Assemblies may either be discreet from one another, or they may be combined into one assembly.

4.5.8 Transfer Relay

There is also the option of the Power Transfer Relay being internal to the Inverter portion of the BBS. The Bypass Switch will always remain a separate and discreet assembly.

CHAPTER 4-SECTION 6
COMMUNICATIONS

4.6.1 Serial and Network Communications Interface

The BBS shall have Serial and Ethernet communications interfaces for user configuration and management. The user serial port shall be an EIA-232 (DB9-Female) connector. The Ethernet Port shall be an RJ45, EIA 568B Pin Out connector.

4.6.2 User Configuration Menus

All BBS Configuration and System menus shall be accessible and programmable from the RS-232 port and from the Ethernet port as listed in 4.6.3. Additionally, all log files shall be available through these ports.

4.6.3 Network Configuration

The BBS shall support the following features:

Provide TCP and UDP over IP protocol communications and support the following applications layer protocols FTP, Telnet, and HTTP. The BBS shall be SNMP compliant.

Subnet masks for Class A, B, and C networks (See Table Below):

Network Class	Host BITS	Subnet Mask	Example IP Address
A	24	255.0.0.0.0	10.0.0.100
B	16	255.255.0.0	172.31.0.100
B	8	255.255.255.0	192.168.0.100

The BBS shall be provided with Web-Based-Interface (WBI). The WBI shall allow the user to set Network Configuration Parameters and all system configurations using a Web Browser.

As a minimum a user shall be able to do the following via the Web Browser:

1. View Logs
2. Change Modes of Operation
3. Configure Email Alarms
4. Adjust Line Qualify Time Per. Section 4.3.3
5. Program Relay Contacts Per. Section 4.3.8
6. Configure Network Parameters

The BBS shall have a default IP Address of 192.168.1.51, Subnet Mask as 255.255.255.0 with username as "admin" and password as "user".

CHAPTER 4-SECTION 7
WARRANTY

4.7.1 Terms and Conditions

Manufacturers shall provide a five (5) year warranty. The first three (3) years shall be termed the "Advanced Replacement Program". Under this program, the manufacturer will send out a replacement within two business days of the call notifying them of an issue. The replacement unit may be either a new unit or a re-manufactured unit that is up to the latest revision. The last two years of the warranty will be factory-repair warranty for parts and labor on the BBS.

CHAPTER 4-SECTION 8
QUALITY ASSURANCE

4.8.1 Quality Assurance

Each BBS shall be manufactured in accordance with a manufacturer Quality Assurance (QA) program. The QA program shall include two Quality Assurance procedures: (1) Design QA (see 7.4 below) and (2) Production QA. The Production QA shall include statistically controlled routine tests to ensure minimum performance levels of BBS units built to meet this specification and a documented process of how problems are to be resolved.

4.8.1.1 QA Process

QA process and test results documentation shall be kept on file for a minimum period of seven years.

4.8.1.2 QA Approval

Battery Backup System designs not satisfying Design QA Testing and Production QA Testing requirements shall not be labeled, advertised, or sold as conforming to this specification.

4.8.2 Design Qualification Testing

The manufacturer, or an independent testing lab hired by the manufacturer, shall perform Design Qualification Testing on new BBS system(s) offered, and when any major design change has been implemented on an existing design. A major design change is defined as any modification, either in material, electrical, physical or theoretical, that changes any performance characteristics of the system, or results in a different circuit configuration. Where a dispute arises in determining if a system is a new design or if the system has had a major design change, the State will make the final determination if Design Qualification Testing is required prior to production consideration.

4.8.2.1 Submittals

A quantity of two units for each design shall be submitted for Design Qualification Testing.

Test units shall be submitted to Caltrans TransLab, Electrical Testing Branch after the manufacturer's testing is complete.

4.8.2.2 Test Data Submittal

Manufacturer's testing data shall be submitted with test units for Caltrans verification Design Qualification Testing.

4.8.2.3 Burn-In

The sample systems shall be energized for a minimum of 5 hours, at full rated load, at temperatures of +74 °C and –37 °C, excluding batteries, before performing any design qualification testing.

Any failure of the BBS, which renders the unit non-compliant with the specification after burn-in, shall be cause for rejection.

4.8.2.4 Testing

For Design Qualification Testing, as a minimum, the following will be tested for compliance to the specifications:

a. Minimum of two hours of run time while operating in Backup Mode, at full load.
b. Proper operations of all relay contacts
c. Inverter output voltage, frequency, harmonic distortion, and efficiency, when in Backup Mode.
d. All power transfer voltage levels and all modes of operation.
e. Power transfer time from loss of utility line voltage to stabilized inverter line voltage from batteries.
f. Backfeed voltage to utility when in Backup Mode.
g. IEEE/ANSI C.62.41 compliance.
h. Battery charger operation.
i. Event counter and runtime meter accuracy.
j. User ability to control, monitor, get reports, and configure the system through the standard RS-232 and Ethernet ports.
k. Complete physical inspection of the system for quality workmanship.

4.8.3 Production Quality Control Testing

Production Quality Control tests shall consist of all of the above listed tests and shall be performed on each new system prior to shipment. Failure to meet requirements of any of these tests shall be cause for rejection. The manufacturer shall retain test results for seven years.

4.8.3.1 100-Hour Burn-In-Period

Each BBS shall be given a minimum 100-hour burn-in period to eliminate any premature failures. The burn-in period can be a combination of running in Backup Mode with a full load and running in Charger Mode.

4.8.3.2 Visual Inspection

Each system shall be visually inspected for any exterior physical damage or assembly anomalies. Any defects shall be cause for rejection.

4.8.4 Caltrans Quality Assurance Testing

Caltrans will perform random sample testing on all shipments, consistent with ANSI/ASQC Z1.4-1993 Sampling Procedures and Tables for Inspection by Attributes.

4.8.4.1 Sample Testing

Sample testing will normally be completed within 30 days after delivery to the Caltrans Laboratory, barring deficiencies in the shipment, which would reset the clock.

All parameters of the specification may be tested on the shipment sample.

4.8.4.2 Number of Units

The number of units tested (sample size) shall be determined by the quantity in the shipment. The sample size and acceptance or rejection of the shipment shall conform to ANSI/ASQC Z1.4.

CHAPTER 4-SECTION 9
BBS INVERTER/CHARGER DETAILS

		Appendix
4.9.1	**BBS System Block Diagram**	**A4-1**
4.9.2	**BBS Utility Power Connection Diagram**	**A4-2**
4.9.3	**BBS Relay Contact Terminal Block**	**A4-3**

CHAPTER 4-SECTION 10
EXTERNAL BBS CABINET

4.10.1 External BBS Cabinet

The External BBS (E-BBS) Cabinet shall be used for housing batteries and/or BBS, which includes inverter/charger unit, power transfer relay, manually operated bypass switch, any other control panels, and all wiring and harnesses.

4.10.2 E-BBS Materials

The E-BBS Cabinet shall be a NEMA 3R rated cabinet that can be mounted to the side of the Model 332LCabinet.

The E-BBS Cabinet shall conform to TEES, March 12, 2009 Chapter 6, Section 2-Housings for the construction and finish of the cabinet, in the following specific areas:

Material used and the thickness of material
Anodic coating, for both the housing shell and door
Welds
Door Frames and gasketing
Door latch and locking mechanism
Door hinges and catches – in addition, hinge may also be continuous stainless steel piano hinge
Door louvered vents and filter assembly
Thermostatically controlled fan

4.10.3 E-BBS Cabinet Mounting Hardware

The E-BBS Cabinet must include all bolts, washers, nuts, and cabinet-to-cabinet coupler fittings necessary for mounting it to the Model 332L Cabinet.

Fasteners for the E-BBS Cabinet must include:

(8) cabinet mounting bolts that are 18-8 stainless steel hex head, fully threaded, and 3/8" – 16 x 1"
(2) washers per bolt designed for 3/8" bolt and are 18-8 stainless steel 1-inch OD round flat type
(1) K-lock nut per bolt that are 18-8 stainless steel, Hex nut, assembled with free-spinning tooth washer, 3/8" – 16 screw size

4.10.3.1 E-BBS Cabinet to Model 332L Cabinet Coupling

E-BBS Cabinet to Model 332L Cabinet coupling must include a conduit for power connections between the 2 cabinets.

Couplings must include:

2-inch nylon-insulated steel chase nipple
2-inch sealing, steel locknut
2-inch nylon-insulated steel bushing

4.10.4 E-BBS Cabinet Shelves

Four shelves shall be provided. There shall be a minimum of 304.8mm (12") clearance between shelves. Each shelf shall be a minimum of 263.65mm (10.38") x 635.0mm (25"), and capable of supporting a minimum of 57Kg (125 lbs.) Shelf edges shall be turned down on all four sides for support and to provide a flat top surface. Shelves shall be predrilled with EIA rail mounting holes.

4.10.4.1 E-BBS Cabinet Bottom Shelf

The bottom shelf shall be removable.

4.10.5 EIA Angle Rails

Two EIA angle rails, along with all necessary mounting hardware (4 sets of 10-32 stainless steel bolts and nuts with captive washers), shall be provided with the E-BBS Cabinet, and shall be preinstalled in the top shelf position.

4.10.5.1 Rail Symmetry

EIA angle rails shall be symmetric to allow for installation on either right or left sides of the cabinet. Shelf mounting holes and bracket shall allow EIA rail installation at any other shelf position.

4.10.5.2 Rail Thickness

The EIA angle rail nominal thickness shall be either 3.4163mm (0.1345") plated steel or 2.667mm (0.105") stainless steel.

4.10.5.3 Rail Mounting Bracket

The EIA rail Mounting Bracket shall be of continuous, one-piece design bolted into the cabinet to provide adequate support for rail-mounted equipment.

4.10.5.4 Screw Posts

Pressed-in, flush-head threaded screw posts shall be inserted into the front face of the cabinet enclosure top sill. These threaded posts shall be used to mount both the fan panel and the EIA rail mounting bracket. The screw posts shall be 10-32 thread size PEM Studs

4.10.6 AC-Operated Fan

Fan must be AC-operated from the same line output as the Model 332L Cabinet. A 2-position terminal block must be provided on the fan panel, along with 10 feet of connected hookup wire.

CHAPTER 4-SECTION 11
E-BBS CABINET DETAILS

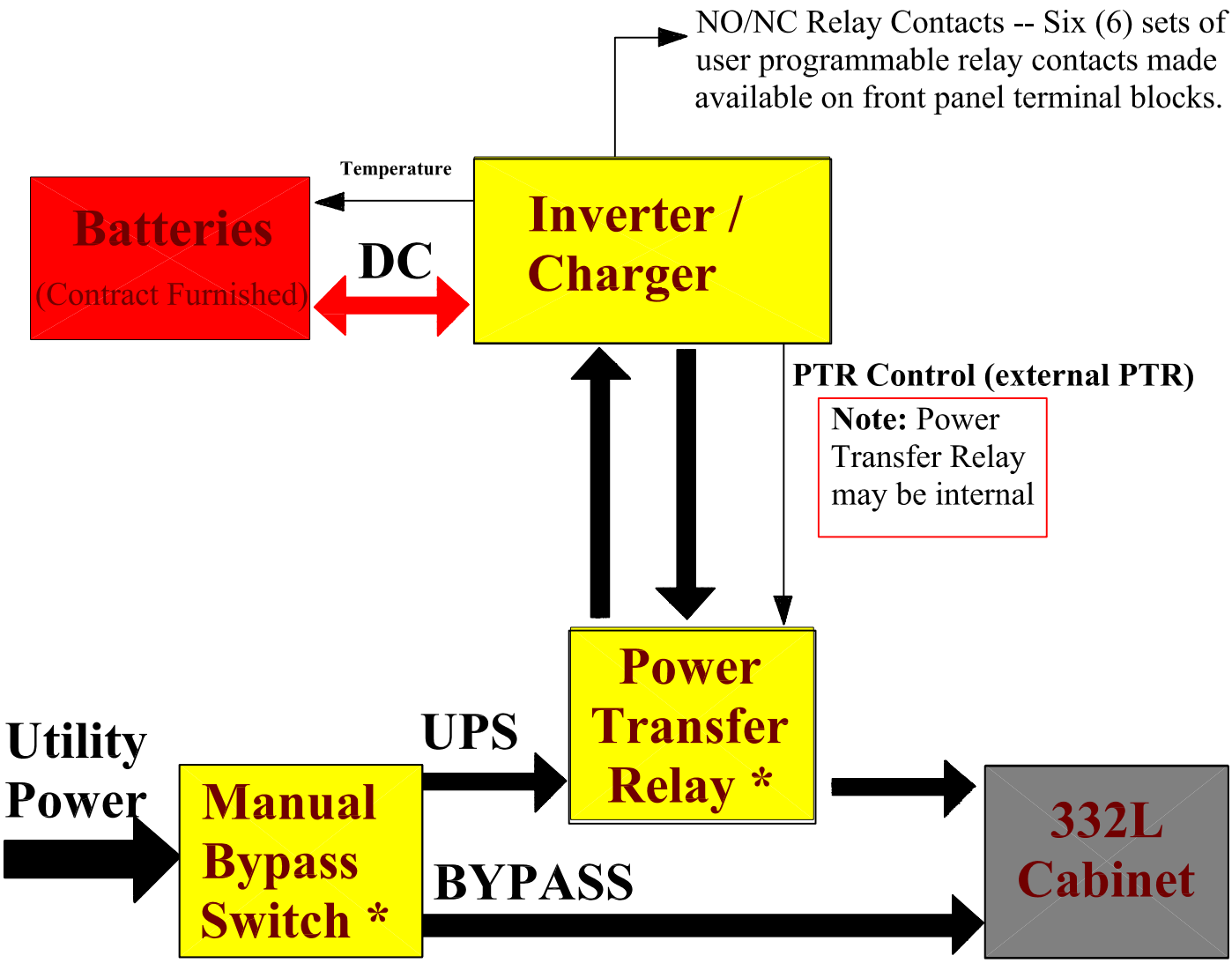
	Appendix
4.11.1 E-BBS Cabinet	**B4-1**
4.11.2 EIA Rail Mounting and Angle Bracket Details B	**B4-2**
4.11.3 EIA Rail Mounting and Angle Bracket Details C	**B4-3**

APPENDIX A & B
CHAPER 4 DETAILS

APPENDIX A
BBS INVERTER/CHARGER DETAILS

BBS System Block Diagram **A4-1**
BBS Utility Power Connection Diagram **A4-2**
BBS Relay Contact Terminal Block **A4-3**

Battery Back Up System (BBS)
Block Diagram



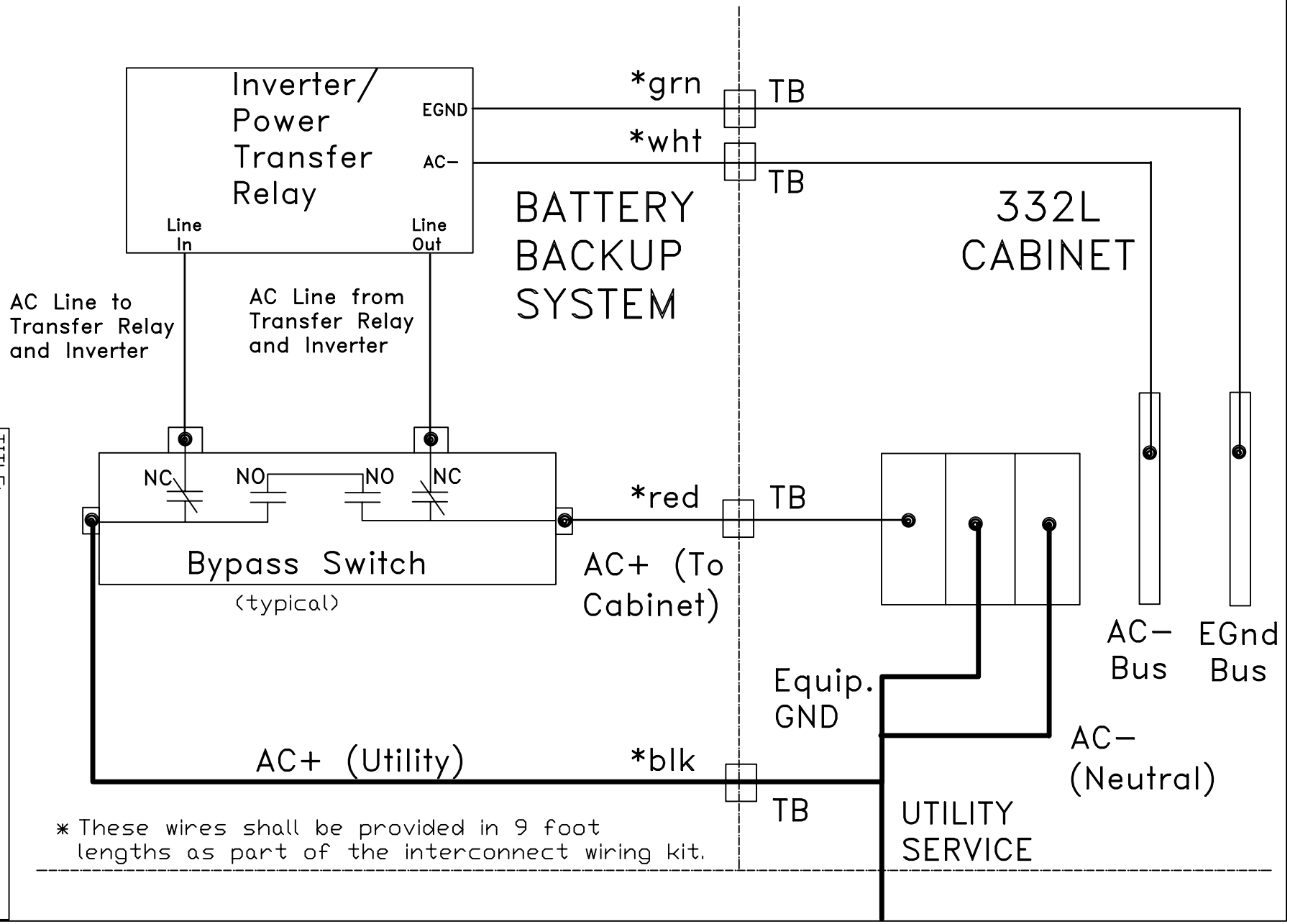
* Manual Bypass Switch (must be external to Inverter), and Power Transfer Relay must be separate functional units, but may share a common enclosure.

AC VOLTAGE

DC VOLTAGE

TITLE: BBS SYSTEM BLOCK DIAGRAM	
NO SCALE	A4-1
BBS 2009	

BBS Utility Power Connection Diagram



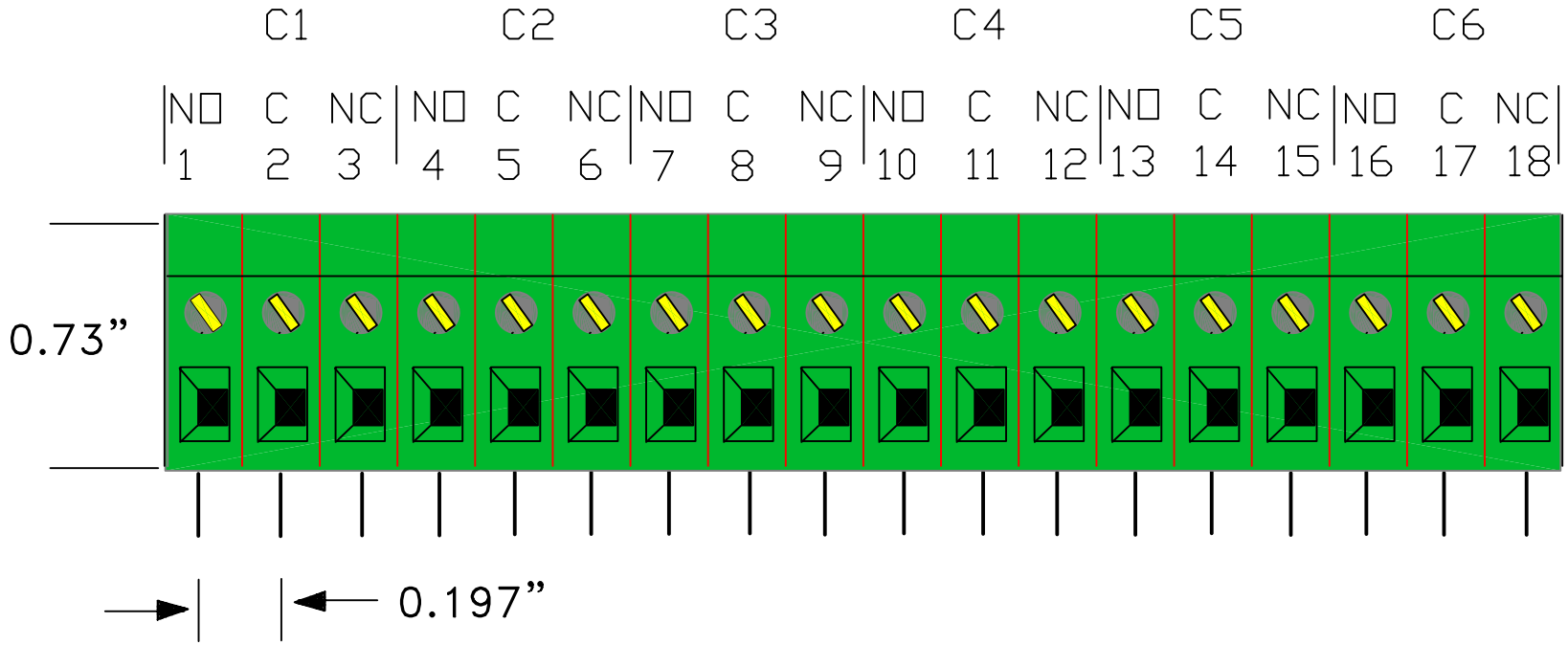
* These wires shall be provided in 9 foot lengths as part of the interconnect wiring kit.

TITLE: BBS Utility Power Connection Diagram

NO SCALE

BBS 2009

A4-2



Relay Contact Terminal Block:

* Available on Front Panel of Inverter/Charger
* 0.197" (5mm) spacing
* Allows wire size 24-12 AWG
* Screw and wire entrance are on the same face

TITLE: BBS Relay Contact Terminal Block

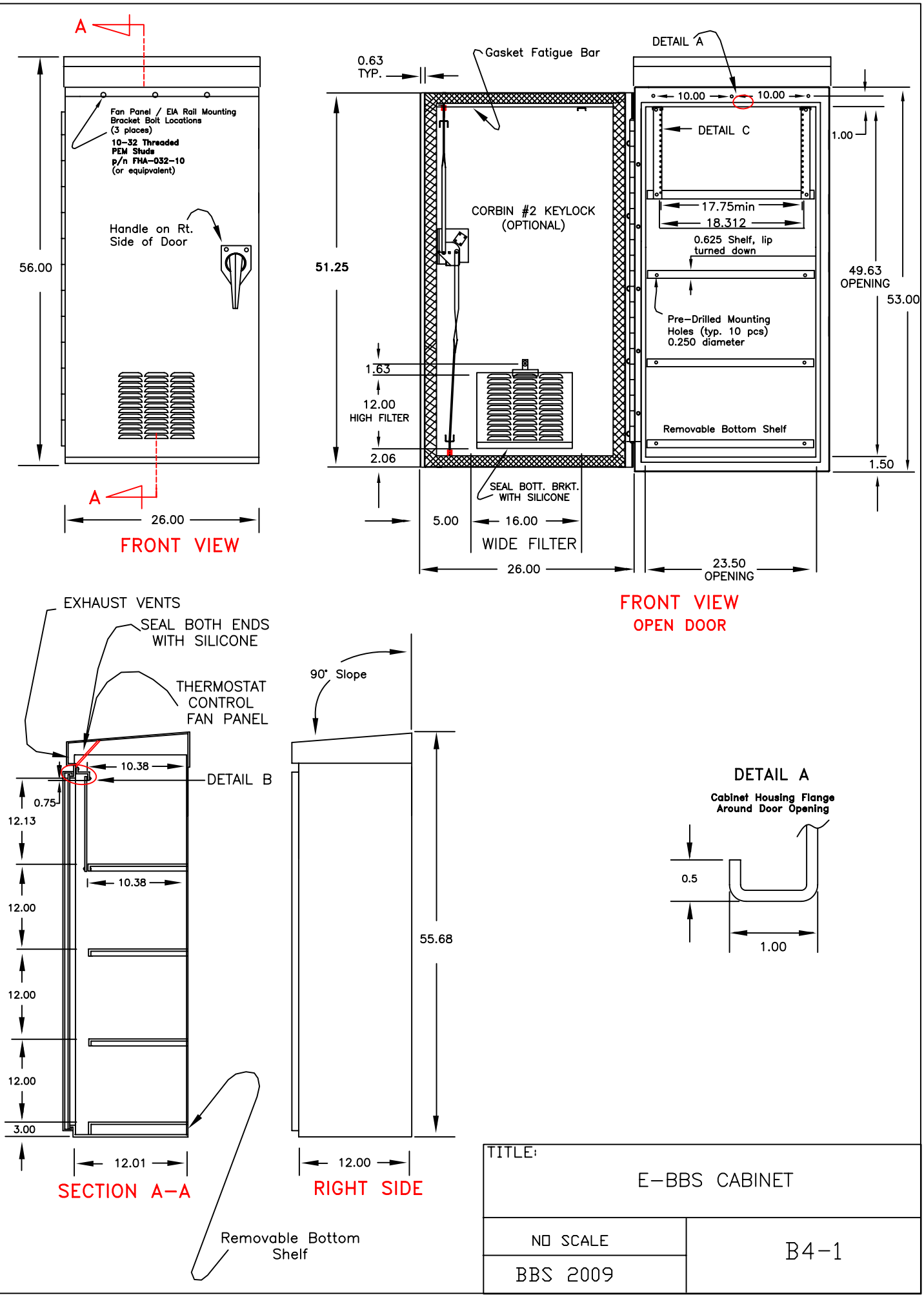
NO SCALE

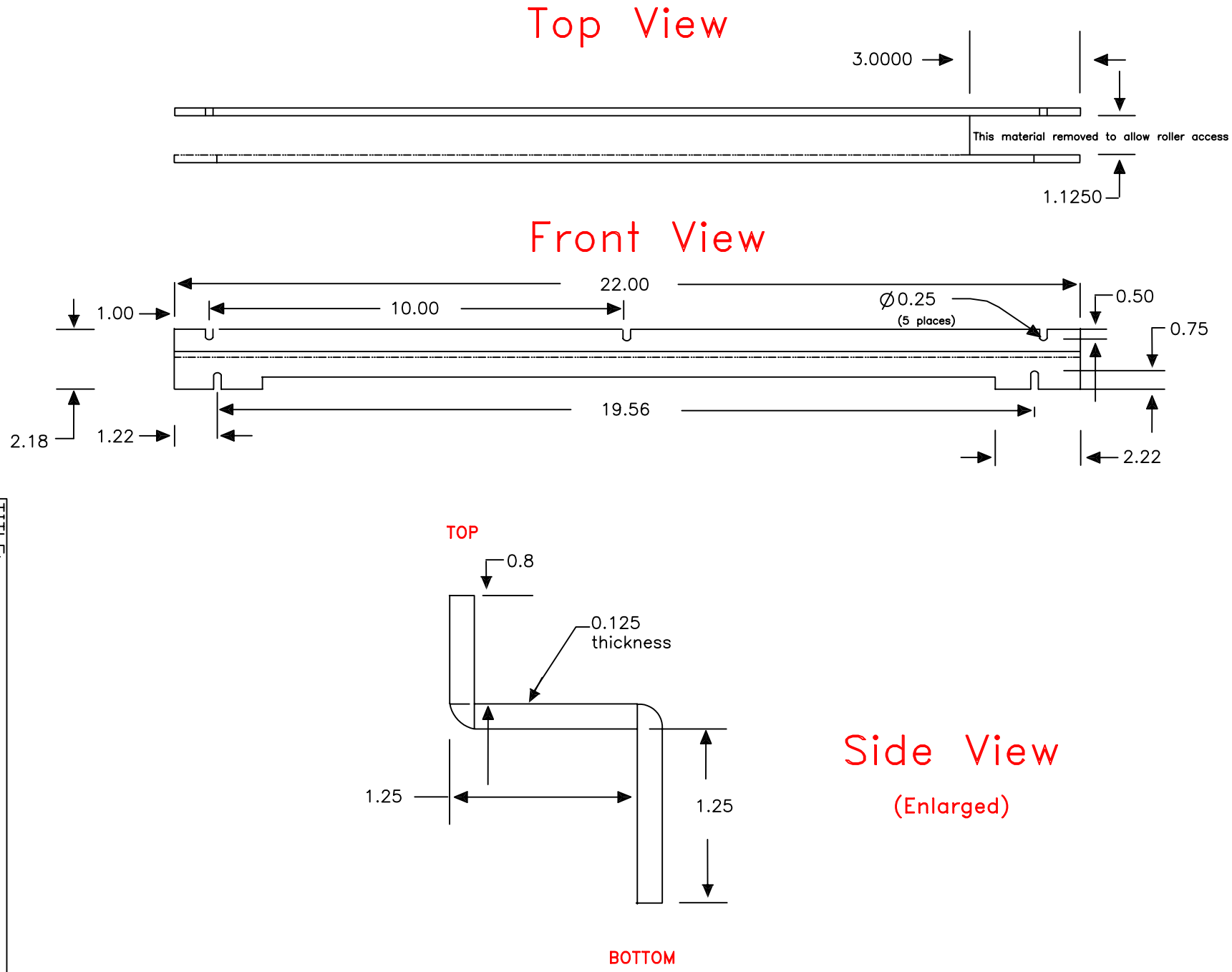
BBS 2009

A4-3

APPENDIX B
E-BBS CABINET DETAILS

E-BBS Cabinet **B4-1**
EIA Rail Mounting and Angle Bracket Details B **B4-2**
EIA Rail Mounting and Angle Bracket Details C **B4-3**


A
Fan Panel / EIA Rail Mounting Bracket Bolt Locations (3 places)
10-32 Threaded PEM Studs p/n FHA-032-10 (or equipvalent)
Handle on Rt. Side of Door
56.00
26.00
FRONT VIEW
0.63 TYP.
Gasket Fatigue Bar
DETAIL A
10.00
10.00
DETAIL C
1.00
CORBIN #2 KEYLOCK (OPTIONAL)
51.25
17.75min
18.312
0.625 Shelf, lip turned down
49.63 OPENING
53.00
Pre-Drilled Mounting Holes (typ. 10 pcs) 0.250 diameter
1.63
12.00 HIGH FILTER
Removable Bottom Shelf
2.06
1.50
SEAL BOTT. BRKT. WITH SILICONE
5.00
16.00
WIDE FILTER
26.00
23.50 OPENING
FRONT VIEW
OPEN DOOR
EXHAUST VENTS
SEAL BOTH ENDS WITH SILICONE
THERMOSTAT CONTROL FAN PANEL
10.38
DETAIL B
0.75
12.13
10.38
12.00
12.00
12.00
3.00
12.01
SECTION A-A
90° Slope
55.68
12.00
RIGHT SIDE
Removable Bottom Shelf
DETAIL A
Cabinet Housing Flange Around Door Opening
0.5
1.00
TITLE:
E-BBS CABINET
NO SCALE
BBS 2009
B4-1



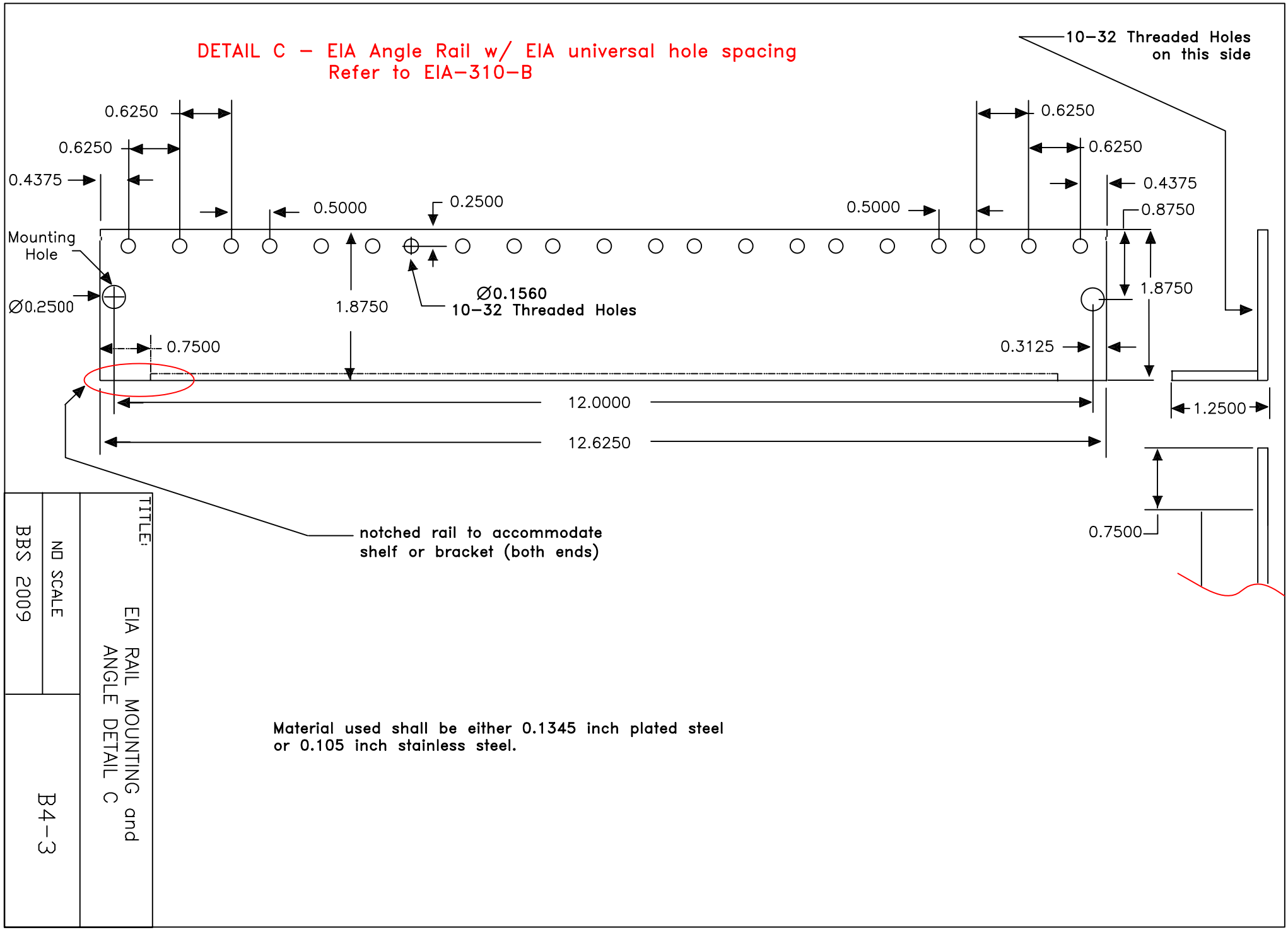
TITLE:

EIA RAIL MOUNTING and
ANGLE BRACKET DETAIL B

NO SCALE

BBS 2009

B4-2


DETAIL C – EIA Angle Rail w/ EIA universal hole spacing
Refer to EIA-310-B
10-32 Threaded Holes on this side
0.6250
0.6250
0.4375
0.5000
0.2500
0.5000
0.6250
0.6250
0.4375
0.8750
Mounting Hole
Ø0.2500
1.8750
Ø0.1560
10-32 Threaded Holes
1.8750
0.7500
0.3125
12.0000
12.6250
1.2500
0.7500
notched rail to accommodate shelf or bracket (both ends)
Material used shall be either 0.1345 inch plated steel or 0.105 inch stainless steel.
TITLE:
EIA RAIL MOUNTING and ANGLE DETAIL C
NO SCALE
BBS 2009
B4-3

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

Theresa Gabriel 12-20-07
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Theresa A. Gabriel No. E15129 Exp. 6-30-10 ELECT STATE OF CALIFORNIA

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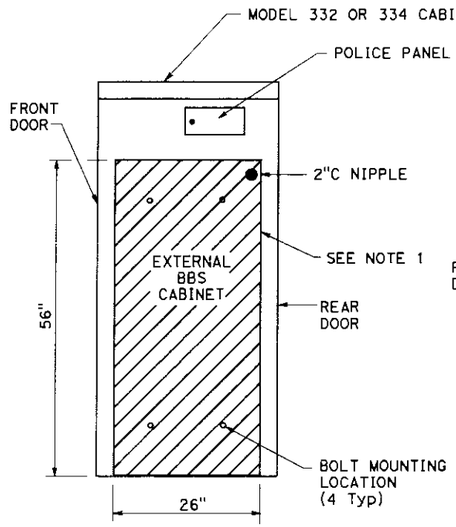
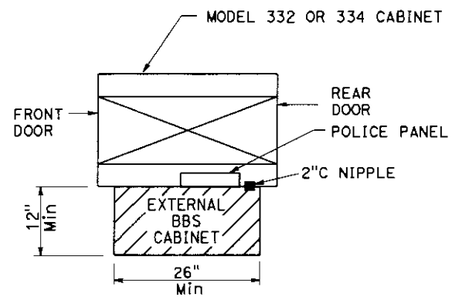


SIDE VIEW

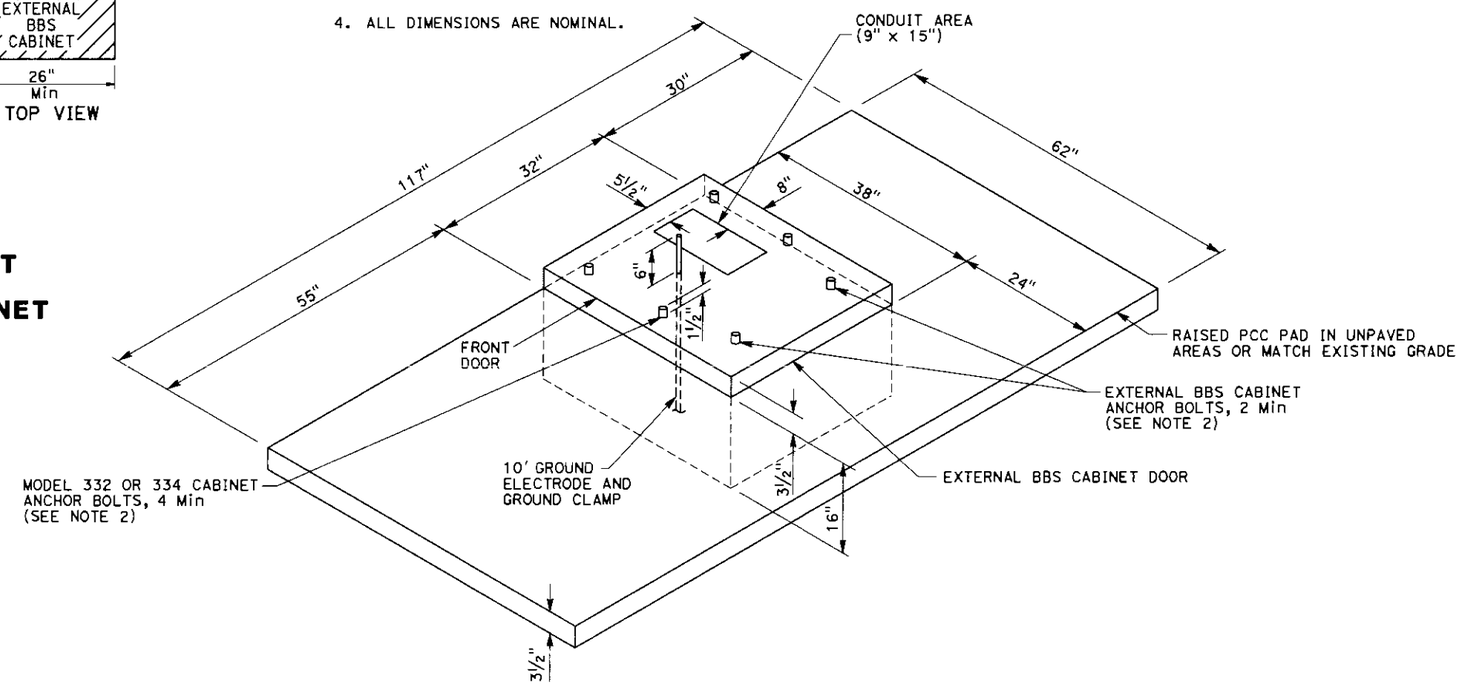


TOP VIEW

EXTERNAL BBS CABINET MOUNTED TO THE MODEL 332 OR 334 CABINET

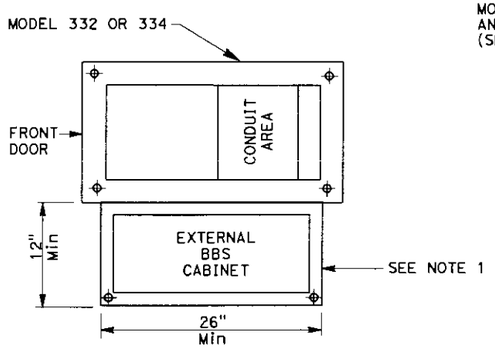
NOTE: (THIS SHEET ONLY)

1. THE EXTERNAL BBS CABINET SHALL BE MOUNTED TO THE MODEL 332 OR 334 CABINET WITH FOUR 18-8 STAINLESS STEEL HEX HEAD, FULLY-THREADED, ⅜"-16 X 1" BOLTS; TWO WASHERS PER BOLT, DESIGNED FOR ⅜" BOLTS AND ARE 18-8 STAINLESS STEEL, 1" OUTSIDE DIAMETER, ROUND, AND FLAT; AND ONE K-LOCK NUT PER BOLT THAT IS 18-8 STAINLESS STEEL AND A HEX-NUT. THE ENGINEER WILL HAVE TO APPROVE THE BOLT MOUNTING LOCATION PRIOR TO INSTALLATION.
2. THE ANCHOR BOLTS SHALL BE ¾" Dia X 15" WITH A 2"-90° BEND. THE CABINET MANUFACTURER'S SPECIFICATION SHALL DETERMINE THE LOCATION OF THE ANCHOR BOLTS IN THE FOUNDATION. THE ENGINEER WILL HAVE TO APPROVE THE ANCHOR BOLTS AND ITS LOCATION IN THE FOUNDATION PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR SHALL VERIFY THE DIMENSIONS OF THE BBS CABINET PRIOR TO CONSTRUCTING THE FOUNDATION OF THE MODIFIED PORTION OF THE Std MODEL 332 AND 334 CABINET FOUNDATION. THE ENGINEER WILL HAVE TO APPROVE ANY NECESSARY DEVIATIONS PRIOR TO CONSTRUCTION.
4. ALL DIMENSIONS ARE NOMINAL.



MODIFIED MODEL 332 AND 334 CABINET FOUNDATION DETAIL FOR BATTERY BACKUP SYSTEM (BBS)

(FOR DIMENSIONS AND DETAILS NOT SHOWN AND ADDITIONAL NOTES, SEE SHEET ES-3C OF THE STANDARD PLANS FOR MODEL 332 AND 334 CABINETS)



BASE PLAN FOR BBS MOUNTED TO THE MODEL 332 OR 334 CABINET

(FOR DIMENSIONS AND DETAILS NOT SHOWN, SEE SHEET A6-1 TO A6-4, CABINET HOUSING DETAILS OF THE TRANSPORTATION ELECTRICAL EQUIPMENT SPECIFICATION (TEES))

ELECTRICAL SYSTEMS
(BBS FOUNDATION DETAILS)

NO SCALE

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

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DATE PLOTTED => 13-APR-2010
TIME PLOTTED => 11:41

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

Theresa Gabriel 12-20-07
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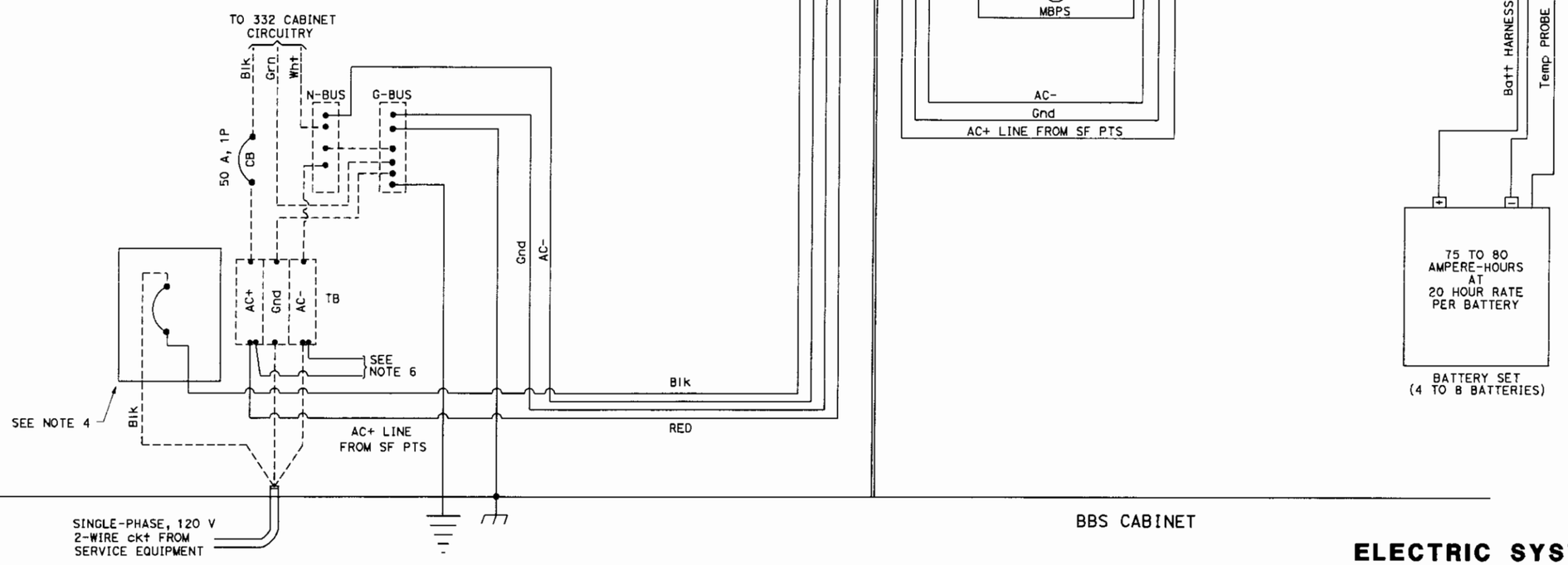
TB = TERMINAL BOARD
Cntl = CONTROL
Gnd = GROUND
Temp = TEMPERATURE
Batt = BATTERY

NOTES: (THIS SHEET ONLY)

1. TYPE A REFERS TO THE BBS EQUIPMENT FROM MANUFACTURER A.
2. CASE-1 REFERS TO THE SITUATION WHEN THE ENTIRE BBS EQUIPMENT INCLUDING THE BATTERIES ARE INSTALLED IN THE BBS CABINET.
3. THE LOCATION OF THE 2"C NIPPLE WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.
4. THE CONTRACTOR SHALL FURNISH AND INSTALL A NEMA-1 ENCLOSURE WITH 30 A, 1P, 120/240 VOLTS RATED CIRCUIT BREAKER MANUFACTURED PER UL STANDARD 489.
5. A TEMPERATURE PROBE SHALL BE ATTACHED TO THE BATTERY BY TAPE OR ATTACHED TO THE NEGATIVE TERMINAL OF THE BATTERY.
6. THE ELECTRICAL POWER FOR THE COOLING FAN FOR THE BBS CABINET SHALL BE TAPPED FROM THE BOTTOM OF THE TB IN THE 332 CABINET.
7. THE CONTRACTOR SHALL PROVIDE A 9-WIRE WIRING HARNESS OR BUNDLED 9 MULTICOLOR CONDUCTORS, #18 AWG WIRES FROM THE RELAY ON THE INVERTER/CHARGER UNIT TO THE CONTROLLER. THE ENDS OF THE CONDUCTORS SHALL BE INSULATED WITH TAPE AND A SIX-FOOT COIL ON EACH END.



ELECTRIC SYSTEM
(BBS POWER CONNECTION DIAGRAM, TYPE A, CASE-1)

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Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

Theresa Gabriel 12-20-07
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PLANS APPROVAL DATE

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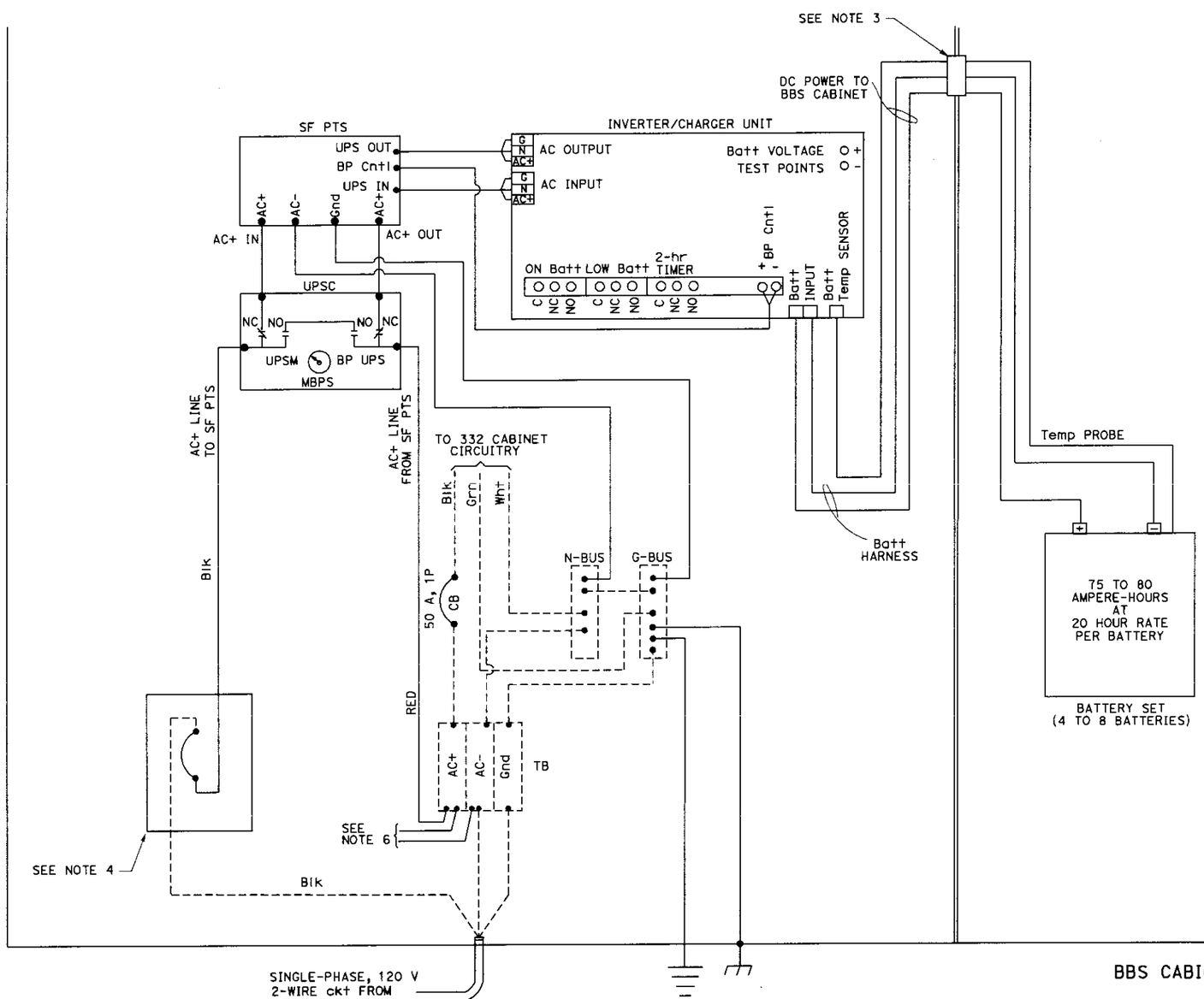

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Temp = TEMPERATURE
TB = TERMINAL BOARD
Cntl = CONTROL
Gnd = GROUND

NOTES: (THIS SHEET ONLY)

1. TYPE B REFERS TO THE BBS EQUIPMENT FROM MANUFACTURER B.
2. CASE-2 REFERS TO THE SITUATION WHEN ONLY THE BATTERIES ARE INSTALLED IN THE BBS CABINET. THE REMAINING EQUIPMENT IS PLACED IN THE 332 CONTROLLER CABINET.
3. THE LOCATION OF THE 2"C NIPPLE WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.
4. THE CONTRACTOR SHALL FURNISH AND INSTALL A NEMA-1 ENCLOSURE WITH 30 A, 1P, 120/240 VOLTS RATED CIRCUIT BREAKER MANUFACTURED PER UL STANDARD 489.
5. A TEMPERATURE PROBE SHALL BE ATTACHED TO THE BATTERY BY TAPE OR ATTACHED TO THE NEGATIVE TERMINAL OF THE BATTERY.
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7. THE CONTRACTOR SHALL PROVIDE A 9-WIRE WIRING HARNESS OR BUNDLED 9 MULTICOLOR CONDUCTORS, #18 AWG WIRES FROM THE RELAY ON THE INVERTER/CHARGER UNIT TO THE CONTROLLER. THE ENDS OFTHE CONDUCTORS SHALL BE INSULATED WITH TAPE AND A SIX-FOOT COIL ON EACH END.

ELECTRICAL SYSTEMS
(BBS POWER CONNECTION DIAGRAM, TYPE A, CASE-2)

NO SCALE

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DATE PLOTTED => 13-MAR-2009
TIME PLOTTED => 09:07

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

Theresa Gabriel 12-20-07
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Theresa A. Gabriel No. E15129 Exp. 6-30-10 ELECT STATE OF CALIFORNIA

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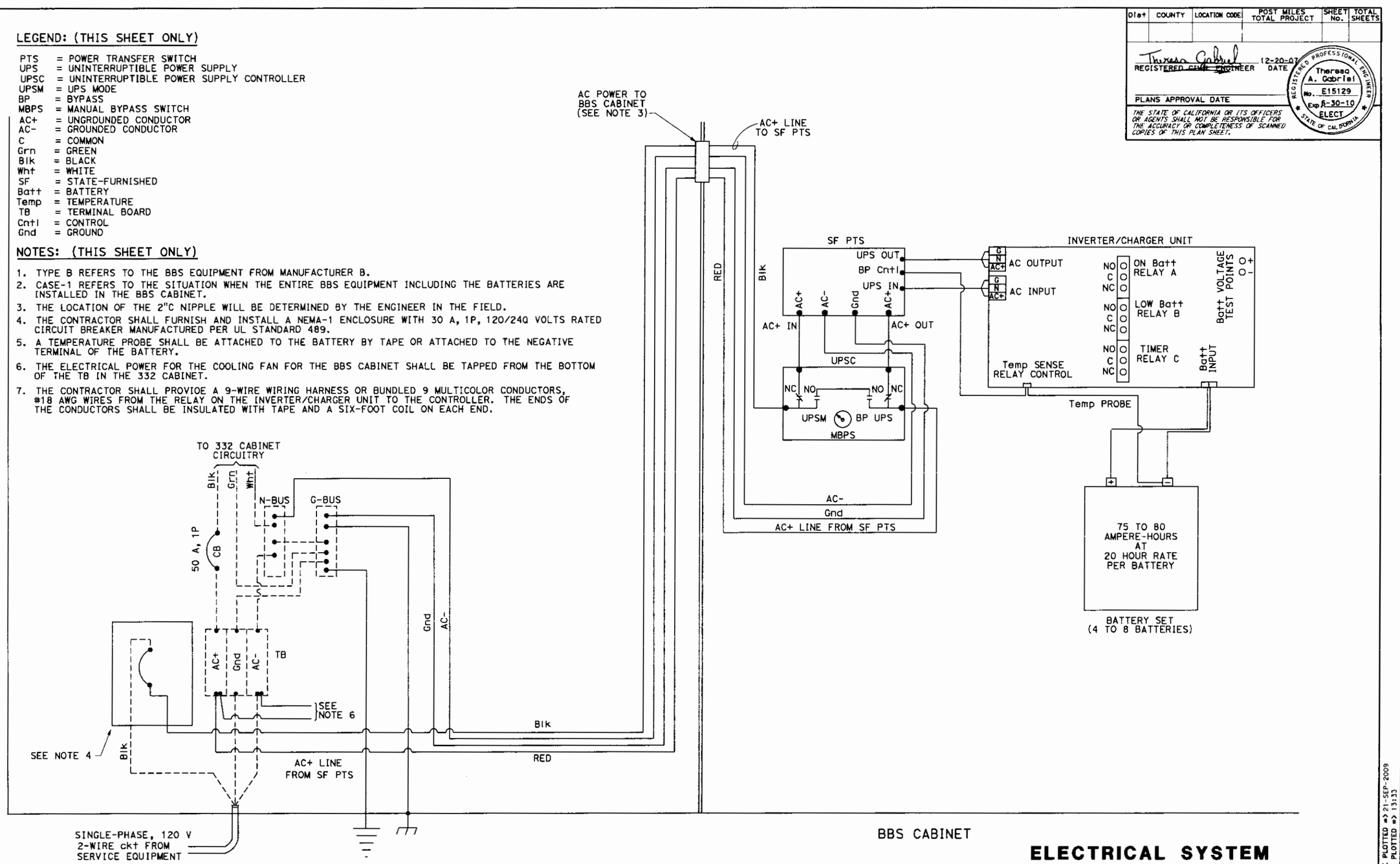

ELECTRICAL SYSTEM

(BBS POWER CONNECTION DIAGRAM, TYPE B, CASE-1)

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FUNCTIONAL SUPERVISOR | CALCULATED-DESIGNED BY | CHECKED BY | REVISED BY | DATE REVISED

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Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

REGISTERED ~~CIVIL~~ ENGINEER — DATE 12-20-07

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Theresa A. Gabriel — No. E15129 — Exp. 6-30-10 — ELECT — STATE OF CALIFORNIA

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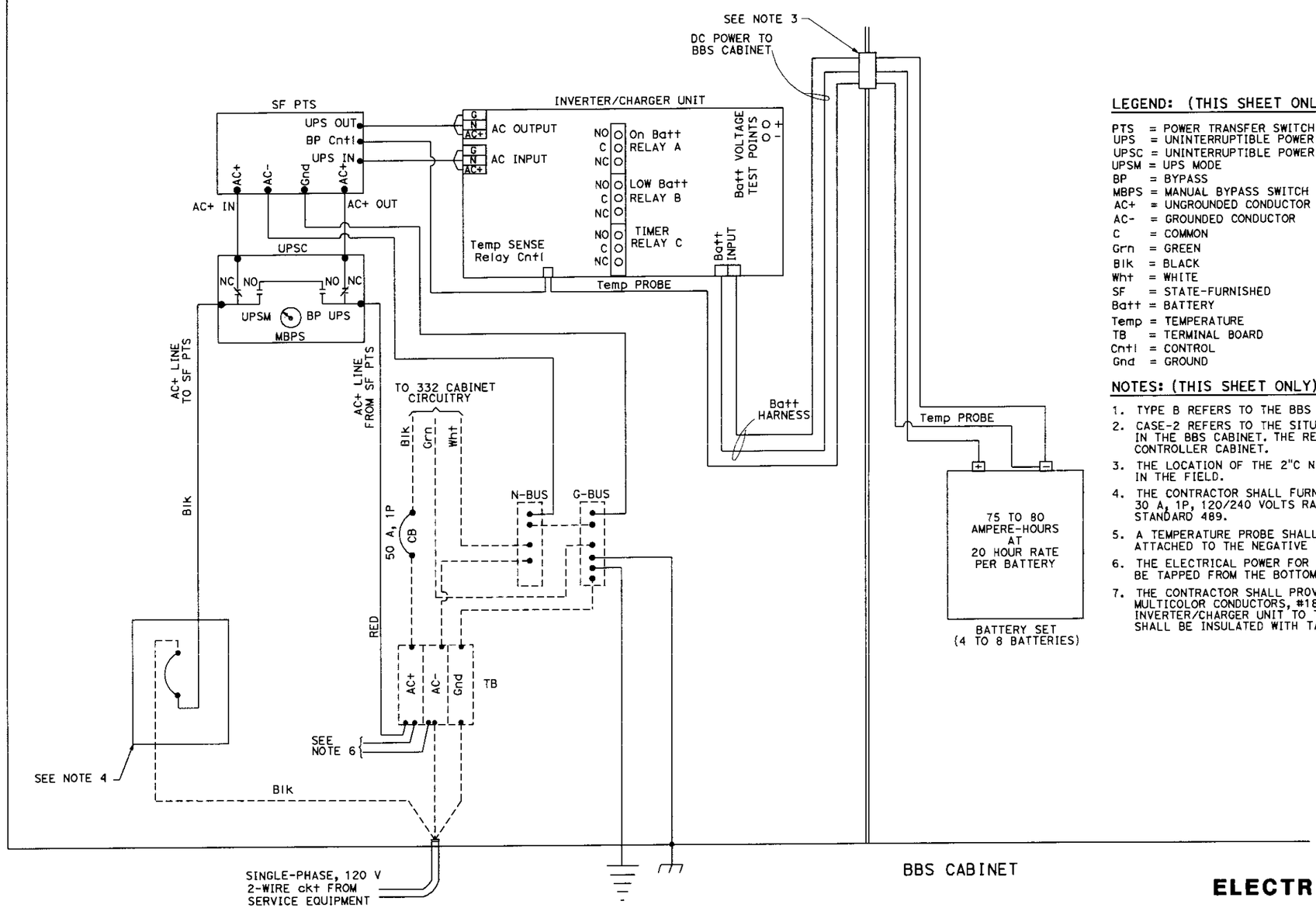

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ELECTRICAL SYSTEM

(BBS POWER CONNECTION DIAGRAM, TYPE B, CASE-2)

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