

FOR CONTRACT NO.: 07-258804

INFORMATION HANDOUT

MATERIALS INFORMATION

SITE INVESTIGATION

Site Investigation Report
Interstate Route 405 Highway Improvement Project PM 21.3 to 26.0
Los Angeles County
Task Order No. 4
Contract No. 43A0023

Prepared by IT Corporation

ROUTE: 07-LA-5, 10, 47, 60, 110, 134, 210, 405, 605-Var

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SITE INVESTIGATION REPORT

**INTERSTATE ROUTE 405 HIGHWAY IMPROVEMENT PROJECT
POST MILES 21.3 TO 26.0
LOS ANGELES COUNTY, CALIFORNIA**

December 12, 2001

Prepared for:

California Department of Transportation
District 7
120 South Spring Street
Los Angeles, California 90012-3606

Prepared by:

IT Corporation
1326 North Market Boulevard
Sacramento, California 95834

Task Order No. 04
EA No. 07-119851
Contract No. 43A0023

IT Project No.: 829965

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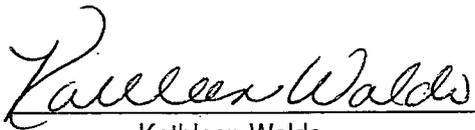
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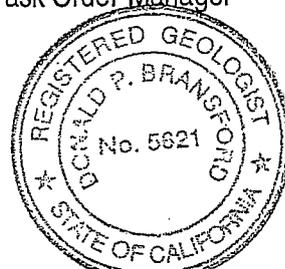


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Executive Summary

IT Corporation (IT) conducted a lead in soil investigation along Interstate Route 405 (Route 405) in Los Angeles County, California. Work was conducted within the unpaved northbound and southbound shoulders and proposed soundwall locations of Route 405 between Kilometer Post (KP) 34.28 and 41.84 (post miles (PM) 21.3/26.0). The investigation was conducted to evaluate the presence and concentration of lead in shallow soil prior to upgrade along Route 405.

Lead was reported in soil samples collected from the site. The source for the lead is not known, however, it is thought to be related to accumulation of dust and debris containing lead from leaded gasoline emissions.

Lead concentrations were compared to Total Threshold Limit Concentration (TTLC) and Soluble Threshold Limit Concentration (STLC) values to evaluate whether the soil would be considered a hazardous waste, should it become a waste. Soil samples from various portions of the site were reported to contain lead at concentrations that exceeded the TTLC and STLC.

The California Environmental Protection Agency, Department to Toxic Substances Control (DTSC), issued Caltrans a variance for soil considered hazardous due to the presence of elevated lead concentrations. The variance allows Caltrans to re-use lead-contaminated soil within Caltrans right-of-way in the roadway corridor boundaries under certain conditions.

Soil from the upper 0.3 meters (1 foot) in areas RW2, and RW5 and RW6 contains aggregate total lead at concentrations greater than 1,496 mg/kg and cannot be managed under the variance. This soil would require disposal in a class I facility and may be a hazardous waste based on total lead concentrations.

Soil from 0 to 1.05 meters (0 to 3.5 feet) in areas RW4, RW6, RW7, RW8, RW10 and soil from 0 to 1.65 meters (0 to 5.5 feet) in areas SW352, SW368 and SW384; and 0.3 to 1.05 meters (1 to 3.5 feet) in area RW5 would be considered hazardous based on soluble lead concentrations. This soil could be managed under condition 1 of the variance.

Soil from 0 to 1.05 meters (0 to 3.5 feet) in areas RW3 and RW397 and soil from 0 to 1.65 meters (0 to 5.5 feet) SW348, SW366 SW370, SW376, SW381, SW387 and SW397; and 0.3 to 1.65 meters (1 to 5.5 feet) in area RW2 would not be considered hazardous based on total or soluble lead concentrations.

1.0 Introduction

This report presents the results of the soil investigation conducted along Interstate Route 405 (Route 405) in Los Angeles County, California (Figure 1). The investigation was conducted by IT Corporation (IT) in July and August 2001. This investigation was conducted at the request and authorization of Ms. Carol Green of the California Department of Transportation (Caltrans) under Task Order No. 04, Contract 43A0023, Expenditure Authorization No. 07-119851. The investigation was conducted for soil characterization prior to Caltrans' road widening, soundwall and retaining wall installation project along Route 405.

1.1 Project Description

Caltrans is planning to improve a portion of Route 405 within the aforementioned project limits. Improvements will consist of widening of the freeway to add high occupancy vehicle (HOV) lanes, and construction of sound walls and retaining walls along the proposed edge of shoulders of the freeway, and along the right-of-way line on Route 405 between Route 105 and Route 90. The project will involve excavation and removal of soil for construction of the sound walls, and retaining walls (Caltrans, 2001). All work will be conducted within Caltrans right-of-way.

IT is not aware of any previous environmental investigative work conducted within the project area.

1.2 Project Objective

The objectives of this investigation are to evaluate the presence and concentration of aerially deposited lead (ADL) in soil in the work area prior to the implementation of improvement activities proposed by Caltrans, and to evaluate the applicability of the California Environmental Protection Agency, Department of Toxic Substances Control (DTSC) variance to the re-usability of soil that may be generated during construction.

2.0 Scope of Work

The scope of work for the investigation was presented in IT's workplan dated July 27, 2001, which was approved for implementation by Caltrans (IT, 2001a). The following scope of work was conducted:

1. Permitting and Mobilization
2. Field Investigation
3. Laboratory Analyses
4. Site Investigation Report Preparation

2.1 Permitting and Mobilization

Permitting and mobilization included a pre-work site visit, and preparation of a workplan and health and safety plan.

Mr. Don Bransford of IT and Ms. Carol Green of Caltrans conducted a task order meeting on July 26, 2001. Locations for soil borings, the scope of work, and objectives were discussed. Following the task order meeting, a pre-work site visit was conducted by Mr. Bransford.

A site-specific health and safety plan (IT, 2001b) was prepared for the site in general accordance with 29 CFR 1910.120 and Title 8, California Code of Regulations, Section 5192. The health and safety plan included safety procedures for work to be performed at the site, chemical hazard information, site safety officers, and preferred medical emergency locations.

2.2 Field Investigation

The field investigation was conducted on July 31 and August 1 and 2, 2001. The investigation consisted of the advancement of 43 borings using hand-auger equipment. Boring locations were selected by Caltrans to provide data for systematic evaluation of subsurface conditions. The work was conducted along the north and southbound shoulders of Route 405 between Kilometer Post (KP) 34.28 and 41.84 (post miles (PM) 21.3/26.0). A description of the locations is included in Appendix A.

The horizontal and vertical locations of the borings were established using a Trimble GPS Pathfinder™ Pro XRS global positioning system (GPS). The GPS utilized a GPS receiver and MSK radio beacon differential receiver. The GPS is reported to have sub-meter precision for horizontal location of the borings. The vertical precision is reported to be 2 to 5 times that of the

horizontal precision. The GPS data were downloaded in the office and Trimble software utilized to provide differential corrections to the coordinates. The GPS data is included in Table 1.

The borings were advanced by hand-held auger equipment to planned depths of approximately 1.05 to 1.65 meters (3.5 to 5.5 feet) below ground surface. Refusal was encountered in borings SW381-1 at 1-foot bgs, in SW 368-1 at 3-foot bgs and in SW 352-1, SW 352-2 and SW 381 at 4-foot bgs. Soil samples were collected directly from the hand-held auger and placed into glass sample containers supplied by the laboratory. Soil samples were labeled with the boring location, boring number, and the sample depth (ie: SW348-1-0.15 indicating the soil sample from location SW348, boring 1, at a depth of 0.15 meters). The soil samples were stored on ice in an insulated chest for transport under chain-of-custody manifest to Associated Laboratories, a California-certified analytical laboratory. Drilling and sampling procedures are presented in Appendix B.

Soil samples were collected as follows:

Roadway Widening: The soil samples were collected from the surface to 0.15 meters (0.0 to 0.5 feet), at 0.3 to 0.45 meters (1 to 1.5 feet), at 0.6 to 0.75 meters (2 to 2.5 feet), and at 0.9 to 1.05 meters (3 to 3.5 feet) below grade.

Proposed Sound Walls and Retaining Walls: The soil samples were collected from the surface to 0.15 meters (0.0 to 0.5 feet), at 0.3 to 0.45 meters (1 to 1.5 feet), at 0.6 to 0.75 meters (2 to 2.5 feet), at 0.9 to 1.05 meters (3 to 3.5 feet), and at 1.5 to 1.65 meters (5 to 5.5 feet) below grade.

All drilling equipment was washed prior to drilling. In addition, to minimize cross-contamination between borings, all appropriate downhole drilling and sampling equipment was washed between borings. The borings were backfilled with the soil cuttings. Soil wastes were not generated. Decontamination solutions were contained pending disposal in a 208-liter (55-gallon) steel drum approved by the United Nations (UN) for transport of liquids, and disposed under Task 2.4.

One equipment rinse blank was collected daily from the sampling equipment following decontamination procedures. Deionized water was passed through a washed hand-auger bucket and into the sample containers. Equipment rinse blanks were labeled Decon Rinse-date sample collected. Equipment rinse data are discussed in Section 3.2.

One duplicate soil sample was collected from each retaining wall/sound wall and roadway widening location. Duplicate soil samples were collected from sequentially greater depths at

each location, returning to the shallowest depth when necessary. A duplicate sample was not collected from boring SW381 due to refusal prior to the selected duplicate collection depth. Duplicate samples were collected by placing the target soil sample in a plastic bag and homogenizing the soil. The soil was then divided into two containers providing a sample and a duplicate sample. Duplicate samples were labeled with the location and boring number, plus a "DUP" suffix; i.e., SW348-1-DUP. The depth was not included in the sample designation, but was recorded in field notes. Results of sample duplicate pair analyses are presented in Section 3.2.

2.3 Laboratory Analysis

Soil samples were submitted to Associated Laboratories, a California-certified analytical laboratory, for analysis. The analyses of samples were conducted in general accordance with U.S. Environmental Protection Agency (EPA) specified holding times. The laboratory analyses were conducted on a standard turn-around (5 to 7 working days) basis.

Soil samples were analyzed for total lead in general accordance with EPA Method 7420. Four samples (two from northbound locations and two from southbound locations) were analyzed for Title 22 Metals in general accordance with EPA Methods 6010/7471. A minimum of four samples per retaining wall/soundwall and roadway widening area or ten percent of the total number of samples from each area (whichever was greater) were tested for pH by EPA Method 9045.

Soil samples reported to contain total lead at concentrations between 50 milligrams per kilogram (mg/kg) and 1,000 mg/kg were analyzed for soluble lead using the Waste Extraction Test (WET). Samples with a soluble lead concentration by the WET analysis greater than 5.0 milligrams per liter were further analyzed for soluble lead by the WET using a deionized water extraction solution.

Four samples per direction (northbound and southbound) for a total of eight samples were analyzed for soluble lead by the Toxicity Characteristic Leaching Procedure (TCLP). This test was considered for samples with total lead concentrations over 1,000 mg/kg.

2.4 Investigation-Derived Waste Disposal

Decontamination water was contained for disposal in a 208-liter (55-gallon) drum approved by the United Nations for transport of liquid wastes. The drum was removed from the site following completion of the field work. The water was transported to Dememo Kerdoon in Compton, California, for recycling. Caltrans certified that the water was non-hazardous.

3.0 Site Investigation Results

3.1 Soil Sample Results

Total lead analyses were conducted on 211 soil samples. A total of 71 samples exceeded 10 times the Soluble Threshold Limit Concentration (STLC). Twelve of the 71 samples exceeded the Total Threshold Limit Concentration (TTLC) of 1,000 mg/kg. A summary of lead results compared to ten-times the STLC and TTLC values are presented below. Results are presented on Table 2.

Heavy Metal	10 Times STLC (mg/kg)	No. Samples Exceeding 10 Times STLC	TTLC (mg/kg)	No. Samples Equal to or Exceeding TTLC	Concentration Range (mg/kg)
Lead	50	71	1,000	12	less than 10 to 3,211

Based on total lead concentrations soil samples were selected for further analysis by the WET, DIWET, and TCLP. A summary of soluble heavy metal results compared to STLC is presented below.

Heavy Metal	STLC (mg/l)	No. Samples Exceeding STLC	WET Concentration Range (mg/l)	DIWET Concentration Range (mg/l)	TCLP (mg/l)	No. Samples Exceeding TCLP	TCLP Concentration Range (mg/l)
Lead	5.0	27 of 59	<0.10 to 28.8	<0.10 to 0.38	5.0	1 of 8	0.259 to 0.53

One soil sample analyzed by the WET was reported to contain 99.3 mg/l soluble lead. However, this sample was reported to contain 1,100 mg/kg total lead. The soluble lead results has therefore been omitted from the above table and statistical analysis presented in Section 4.2. In the 74 soil samples tested, pH ranged from 5.14 to 8.66 (Table 1). Laboratory analytical reports are included in Appendix C.

Heavy metal total concentration analyses were conducted on 4 soil samples. The soil samples were reported to contain arsenic, antimony, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, nickel, vanadium, and zinc (Table 3). The following heavy metals and concentration ranges were reported (in mg/kg).

Heavy Metal	10 Times STLC (mg/l)	TTLIC (mg/kg)	Concentration Range (mg/kg)
Antimony	150	500	<3.0 to 4.04
Arsenic	50	500	4.32 to 9.76
Barium	1,000	10,000	178 to 229
Beryllium	7.5	75	<0.5 to 0.50
Cadmium	10	100	<0.5 to 2.70
Chromium	50	2,500	29.0 to 40.1
Cobalt	800	8,000	13.3 to 17.6
Copper	250	2,500	33.8 to 103
Mercury	2	20	<0.1 to 0.14
Nickel	200	2,000	18.6 to 33.8
Vanadium	240	2,400	38.8 to 70.0
Zinc	2,500	5,000	152 to 610

3.2 QA/QC Results

Quality assurance/quality control (QA/QC) consisted of both field and laboratory QA/QC. Field and laboratory QA/QC were outlined in the workplan (IT, 2001a). The QA/QC program was designed to obtain a high confidence level in the data generated from this investigation. It includes measures designed to minimize error in data gathering and analysis. The field QA/QC program included the collection and analysis of duplicate samples and equipment rinse samples. The laboratory additionally had its own QA program, which included the analysis of method blank samples and matrix spike samples.

Equipment rinse blanks were collected daily and analyzed for lead. None of the equipment rinse samples were reported to contain lead at concentrations exceeding the analytical method reporting limit of 10.0 mg/kg. Based on this, IT considers the data generated by the field investigation to be free of interferences that may have arisen as a result of inadequate equipment decontamination.

Duplicate soil samples were collected from selected borings. The duplicate samples were analyzed for total lead; certain duplicate samples were analyzed for soluble lead by the WET. The results are summarized below (RPD = relative percent difference).

Duplicate Pair	Total Lead Result 1 (mg/kg)	Total Lead Result 2 (mg/kg)	Total Lead RPD (%)	Soluble (WET) Lead Result 1 (mg/l)	Soluble (WET) Lead Result 2 (mg/l)	Soluble Lead RPD (%)
RW2-1-0.3	81.8	77.5	5.4	2.46	3.28	28.6
RW3-1-0.6	51.3	62.9	20.3	1.24	1.31	5.5
RW4-1-0.9	27.5	29.2	6.0			
RW5-1-0.0	3,120	2,750	12.6			
RW6-1-0.3	43.3	42.8	1.2			
RW7-1-0.6	ND	ND	0.0			
RW8-1-0.9	25.5	22.4	12.9			
RW10-1-0.6	21.5	30.1	33.3			
SW348-1-0.6	29.7	120	120.6			
SW352-1-0.3	26.8	39.4	38.1			
SW366-1-0.9	18.1	21.0	14.8			
SW368-2-1.5	ND	ND	0.0			
SW370-1-0.3	19.4	24.8	24.4			
SW376-1-0.3	18.4	30.0	47.9			
SW384-1-0.6	56.1	39.6	34.5			
SW387-1-1.5	ND	ND	0.0			
SW397-1-0.0	63.5	34.6	58.9			
RW397-1-0.9	ND	ND	0.0			

Six of the 18 duplicate pairs had RPDs greater than 30%. However, the pairs were judged by IT to generally have consistent results, considering the detected concentrations and method reporting limits. An exception to this was the duplicate pair collected from boring SW348-1. This inconsistency is not considered by IT to indicate a problem with detection and quantitation of lead, but reflect the random element that exists in soil sample collection and analysis.

The laboratory QA/QC program is described and discussed within the laboratory analytical reports (Appendix C). The method blanks were not reported to contain lead at concentrations exceeding the analytical method reporting limits. Percent recovery for laboratory control spike, laboratory control spike duplicate, matrix spike, and matrix spike duplicate samples were within limits of acceptability established by the laboratory.

To summarize, based on the analytical results for the QA/QC samples submitted for analysis, IT considers that the accuracy of the reported analytical results is satisfactory for the range of analyte concentrations of interest and that the data is representative of subsurface conditions at the site. Additional comments regarding the laboratory procedures is included in Appendix C.

4.0 Data Evaluation

4.1 Lead Analyses

4.1.1 Lead Concentration and Distribution

Soil samples collected from the site were reported to contain lead (Table 2). The source for the lead is not known. However, studies along the transportation corridors have attributed elevated lead concentrations within soil to accumulation of dust and debris containing lead from leaded gasoline emissions (Coltrin, et al., 1993).

The number of samples reported to contain elevated lead concentrations decreased with depth. This is typical of accumulations of aerially deposited lead, as reported by Coltrin and others (1993), where concentrations of lead were observed to decrease with depth. An exception to this was in areas where accumulation of urban dust and debris continued following cessation of leaded gasoline use resulting in lower lead concentrations at shallower depths (Coltrin, et al., 1993). This may explain the results at some locations where elevated concentrations of lead were present in the deeper soil samples.

Lead concentrations were compared to TTLC and STLC values to evaluate whether the soil would be considered a California-hazardous waste, should it become a waste. Generally, TTLC and STLC values for lead are used to judge whether a waste is a California-hazardous waste based on the total and soluble concentration of lead within the waste. The TCLP values are used to judge whether a waste is a Resource Conservation and Recovery Act (RCRA)-hazardous waste (also known as a Federal hazardous waste) based on the soluble concentration of lead within the waste. ~~Eight samples~~ (four northbound and four southbound) were analyzed for ~~TCLP~~.

Soil samples from borings located in areas RW2, RW5, RW6, RW7, RW8, and SW384 were reported to contain total lead concentrations that exceed the TTLC value of 1,000 mg/kg for lead. Soil samples from borings located in areas RW3, RW4, RW5, RW8, RW10, SW352, SW366, SW368, SW370, SW376, SW384, and SW387 were reported to contain soluble lead at concentrations in excess of the STLC of 5 mg/l by WET analysis. Soil samples reported to contain total lead exceeding the TTLC and soluble lead exceeding the STLC would be considered a California-Hazardous waste, should the soil become a waste. No soil samples were reported to contain soluble lead at concentrations exceeding the TCLP.

The DTSC granted Caltrans a variance for soil considered hazardous due to the presence of elevated lead concentrations (DTSC, 2000). The variance allows Caltrans to re-use lead-

contaminated soil within Caltrans right-of-way in the roadway corridor boundaries under certain conditions if the soil is considered a non-RCRA waste. On October 14, 2001 Assembly Bill 414 exempted state and local transportation projects in districts with a variance from the provisions of Health and Safety Code Section 25157.8. The bill relieves state and local transportation projects from the statutory total lead limit of 350 mg/kg for disposal of lead contaminated soil, if the disposal occurs within the operating right-of-way only. If the soil is not designated for re-use, Caltrans is required to meet the disposal requirements set forth in section 25157.8 of the Health and Safety Code.

The DTSC risk-based limit of 1,496 mg/kg, as specified in the variance, may be used for soil re-use within an operating highway right-of-way or construction corridors. In accordance with the variance and Assembly Bill 414, the following conditions apply to Caltrans' reuse and management of soil impacted by aurally deposited lead as fill material for construction and maintenance operations (DTSC, 2000):

- 1) As fill beneath at least one foot of clean (non-hazardous) soil and five feet above the water table if the soluble lead concentration reported by the DIWET analysis is less than 0.5 mg/l and the total lead concentration is less than 1,496 mg/kg.
- 2) As fill beneath a pavement structure designated to protect the soil from water infiltration and five feet above the water table if the soluble lead concentration reported by DIWET analysis is greater than 0.5 mg/l but less than 50 mg/l, and the total lead concentration is less than 1,496 mg/kg.
- 3) Lead-contaminated soil with a pH below 5 shall only be used as fill beneath the paved portion of the roadway.

None of the samples analyzed for soluble lead by the TCLP were reported to contain soluble lead at concentrations exceeding 5 mg/l, the TCLP value for lead and a level at which waste soil would be considered a RCRA-hazardous waste. Therefore, the variance may be used to manage waste soil from the project.

4.1.2 Lead Data Statistical Analysis

To further evaluate the applicability of the DTSC variance (DTSC, 2000), IT conducted a statistical evaluation of lead analytical data for this project at the request of Caltrans. The statistical evaluation was conducted in general accordance with guidance provided in SW-846, "Test Methods for Evaluating Solid Waste, Volume II: Field Manual, Physical/Chemical Methods" (EPA, 1986). The statistical evaluation was conducted to further evaluate the concentration of lead within soil at the site.

The statistical evaluation was conducted on lead data sets for each of the soundwall, retaining wall, and roadway widening areas. The statistical evaluation addressed the following items:

- Determination of the distribution of the sample data;
- Calculation of mean; and
- Calculation of the 80% and 90% Confidence Intervals (CIs) which provide corresponding 90% and 95% Upper Confidence Levels (UCLs), interpreted as a 0.90 and 0.95 probability that the true mean for a given population is no higher than the calculated UCLs.

The data are not normally distributed (see histogram in Appendix D). In accordance with SW-846 the data were subjected to arcsine transformation to approximate normality as the mean was much less than the sample variance. The UCL calculations were made using the transformed data.

Data from all sampling intervals within each area were initially included in the evaluation. Where the total lead UCLs calculated for a specific area exceeded 1,496 mg/kg, upper layers were removed from the analysis until the UCLs fell below the 1,496 mg/kg level. This was conducted to evaluate the level of soil segregation needed to allow remaining waste soil to be managed within the variance, where needed. Regression analysis was conducted to predict the soluble lead concentration by the WET corresponding to the various 90% UCLs for each area. Regression lines were developed from total/WET lead data pairs for samples collected from the northbound and southbound directions of Route 405.

For samples with lead concentrations reported as non-detect above the analytical method reporting limit, a value of one-half of the reporting limit was used in the statistical evaluation. The UCL was calculated using the following equation from Gilbert (1987) (modified from SW-846 to provide the upper one-sided confidence limit):

$$90/95\% \text{ UCL} = \bar{x} + (t_{0.90/0.95})(s/n^{1/2})$$

where \bar{x} = mean of the data

$t_{0.90/95}$ = the quantile for the "t" distribution for the 90/95% UCLs

s = standard deviation of the data

n = number of samples

Pearson (product moment) correlation coefficients (Pearson values) were obtained from regression analysis for regression lines forced through the origin (Appendix D). Correlation coefficients for total/WET lead data for samples in the northbound and southbound directions

were 0.86 and 0.92, respectively. The correlation coefficient for the total/WET data indicates that acceptable correlations between total and WET soluble data exist and that the relationships are linear. An expected soluble lead concentration was obtained from regression analysis developed from the total and WET soluble data. The coefficient for the dependant variable (slope of regression lines) used in the regression analysis and the total lead versus soluble lead concentration plots are presented in Appendix D.

A summary of 90% and 95% UCLs calculated for total lead data at each location is presented below and in Appendix D. The summary also includes the predicted soluble lead by WET concentrations corresponding to the 90% UCL.

Area	Soil Interval (m)	Total Lead Mean (mg/kg)	Total Lead 90% UCL (mg/kg)	Total Lead 95% UCL (mg/kg)	Predicted WET Lead Concentration (mg/l)
RW2	0.0 to 1.05	598	1,631	1,880	
	0.3 to 1.05	48	107	120	3.15
RW3	0.0 to 1.05	75	140	155	3.99
RW4	0.0 to 1.05	119	209	230	5.76
RW5	0.0 to 1.05	769	1,765	1,999	
	0.3 to 1.05	174	358	395	9.54
RW6	0.0 to 1.05	295	984	1,150	26.61
RW7	0.0 to 1.05	347	856	974	23.33
✓ RW8	0.0 to 1.05	454	882	975	23.98
RW10	0.0 to 1.05	245	529	597	14.97
SW348	0.0 to 1.65	27	35	36	1.32
SW352	0.0 to 1.65	82	187	211	5.18
SW366	0.0 to 1.65	68	153	173	4.33
SW368	0.0 to 1.65	121	305	349	8.20
SW370	0.0 to 1.65	65	152	172	4.31
SW376	0.0 to 1.65	61	147	165	4.17
SW381	0.0 to 1.65	39	87	99	3.65
SW384	0.0 to 1.65	275	564	629	14.75
SW387	0.0 to 1.65	37	83	94	3.54
✓ SW397	0.0 to 1.65	23	37	41	2.37
✓ RW397	0.0 to 1.65	20	33	36	2.25

Note: Soil intervals represent depths to bottom of the sampled interval. These intervals do not match the depths listed in Appendix D, which represent the depth to the top of the sampled interval based on the sample identification.

4.1.3 Lead Summary

Soil in specific locations may be considered a California-hazardous waste based on the total and/or soluble concentrations of lead reported in certain soil samples. Management of the soil within the DTSC variance may be possible. However, soil containing greater than 1,496 mg/kg total lead would be excluded from this option. To assess soil management options, results from soluble lead by DIWET analysis were reviewed. A summary of soil management options based on the total and soluble lead statistics and data is presented below.

Area	Soil Interval (m)	Total Lead Result	Soluble WET Lead Result	Soluble DIWET Lead Result	Management Options
RW2	0.0 to 0.3	Outside variance			Cannot be managed under variance
	0.3 to 1.05	Within variance	Non-hazardous	No DIWET data	Non-hazardous
RW3	0.0 to 1.05	Within variance	Non-hazardous	DIWET <0.5 mg/l	Non-hazardous
RW4	0.0 to 1.05	Within variance	Hazardous	DIWET <0.5 mg/l	Variance condition 1
RW5	0.0 to 0.3	Outside variance			Cannot be managed under variance
	0.3 to 1.05	Within variance	Hazardous	DIWET <0.5 mg/l	Variance condition 1
RW6	0.0 to 1.05	Within variance	Hazardous	No DIWET data	Variance condition 2
RW7	0.0 to 1.05	Within variance	Hazardous	No DIWET data	Variance condition 2
RW8	0.0 to 1.05	Within variance	Hazardous	DIWET <0.5 mg/l	Variance condition 1
RW10	0.0 to 1.05	Within variance	Hazardous	DIWET <0.5 mg/l	Variance condition 1
SW348	0.0 to 1.65	Within variance	Non-hazardous	No DIWET data	Non-hazardous
SW352	0.0 to 1.65	Within variance	Hazardous	DIWET <0.5 mg/l	Variance condition 1
SW366	0.0 to 1.65	Within variance	Non-hazardous	DIWET <0.5 mg/l	Non-hazardous
SW368	0.0 to 1.65	Within variance	Hazardous	DIWET <0.5 mg/l	Variance condition 1
SW370	0.0 to 1.65	Within variance	Non-hazardous	DIWET <0.5 mg/l	Non-hazardous
SW376	0.0 to 1.65	Within variance	Non-hazardous	DIWET <0.5 mg/l	Non-hazardous
SW381	0.0 to 1.65	Within variance	Non-hazardous	No DIWET data	Non-hazardous
SW384	0.0 to 1.65	Within variance	Hazardous	DIWET <0.5 mg/l	Variance condition 1
SW387	0.0 to 1.65	Within variance	Non-hazardous	DIWET <0.5 mg/l	Non-hazardous
SW397	0.0 to 1.65	Within variance	Non-hazardous	No DIWET data	Non-hazardous
RW397	0.0 to 1.65	Within variance	Non-hazardous	No DIWET data	Non-hazardous

4.2. Heavy Metal Analyses

Heavy metals concentrations, excluding lead, were compared to TTLC and ten times the STLC values to evaluate whether the soil would be considered a California-hazardous waste, should it become a waste. None of the reported total metal results exceeded the respective TTLC values. None of the heavy metal concentrations were above ten times the STLC; therefore, no WET analyses were required. Based on the sample result, the soil would not be considered hazardous due to heavy metal concentrations other than lead.

5.0 Conclusions and Recommendations

Based on the laboratory results, current regulatory guidelines, and the judgment of IT the following conclusions and recommendations are offered.

- Lead was reported in soil samples collected from the site. The source for the lead is not known. However, studies along the transportation corridors have attributed elevated lead concentrations within soil to accumulation of dust and debris containing lead from leaded gasoline emissions (Coltrin, et al., 1993).
- Soil from the upper 0.3 meters (1 foot) in areas RW2, and RW5 and RW6 contains aggregate total lead at concentrations greater than 1,496 mg/kg and cannot be managed under the variance. This soil would require disposal in a class I facility and may be a hazardous waste based on total lead concentrations.
- Soil from 0 to 1.05 meters (0 to 3.5 feet) in areas RW4, RW6, RW7, RW8, RW10 and soil from 0 to 1.65 meters (0 to 5.5 feet) in areas SW352, SW368 and SW384; and 0.3 to 1.05 meters (1 to 3.5 feet) in area RW5 would be considered hazardous based on soluble lead concentrations. This soil could be managed under condition 1 of the variance.
- Soil from 0 to 1.05 meters (0 to 3.5 feet) in areas RW3 and RW397 and soil from 0 to 1.65 meters (0 to 5.5 feet) SW348, SW366 SW370, SW376, SW381, SW387 and SW397; and 0.3 to 1.65 meters (1 to 5.5 feet) in area RW2 would not be considered hazardous based on total or soluble lead concentrations.
- Based on total lead concentrations above 1,000 mg/kg soil from 0 to 0.3 meters (0 to 1 foot) in areas RW5, RW6, RW7, RW10 and SW384 and soil from 0 to 0.6 meters (0 to 2 feet) in area RW8 should be classified as California hazardous waste and disposed of at a Class 1 facility.
- Based soluble lead concentrations greater than 5 mg/l, soil from 0 to 0.3 meters (0 to 1 feet) in areas RW5, RW8 and RW10, soil from 0 to 1.05 meters (0 to 4 feet) in area RW4, soil from 0 to 0.3 meters (0 to 1 feet) in area SW384 and soil from 0 to 1.65 meters (0 to 5.5 feet) in area SW352 should be classified as California hazardous waste and disposed of at a Class 1 facility.

location 3 = 394 + 20
location 5 = 414 + 92
location 10 = 415 + 11

6.0 References

Caltrans (California Department of Transportation), 2001, California Department of Transportation, District 7, Contract No. 43A0023, Task Order No. 04, EA 119851, dated May 29, 2001.

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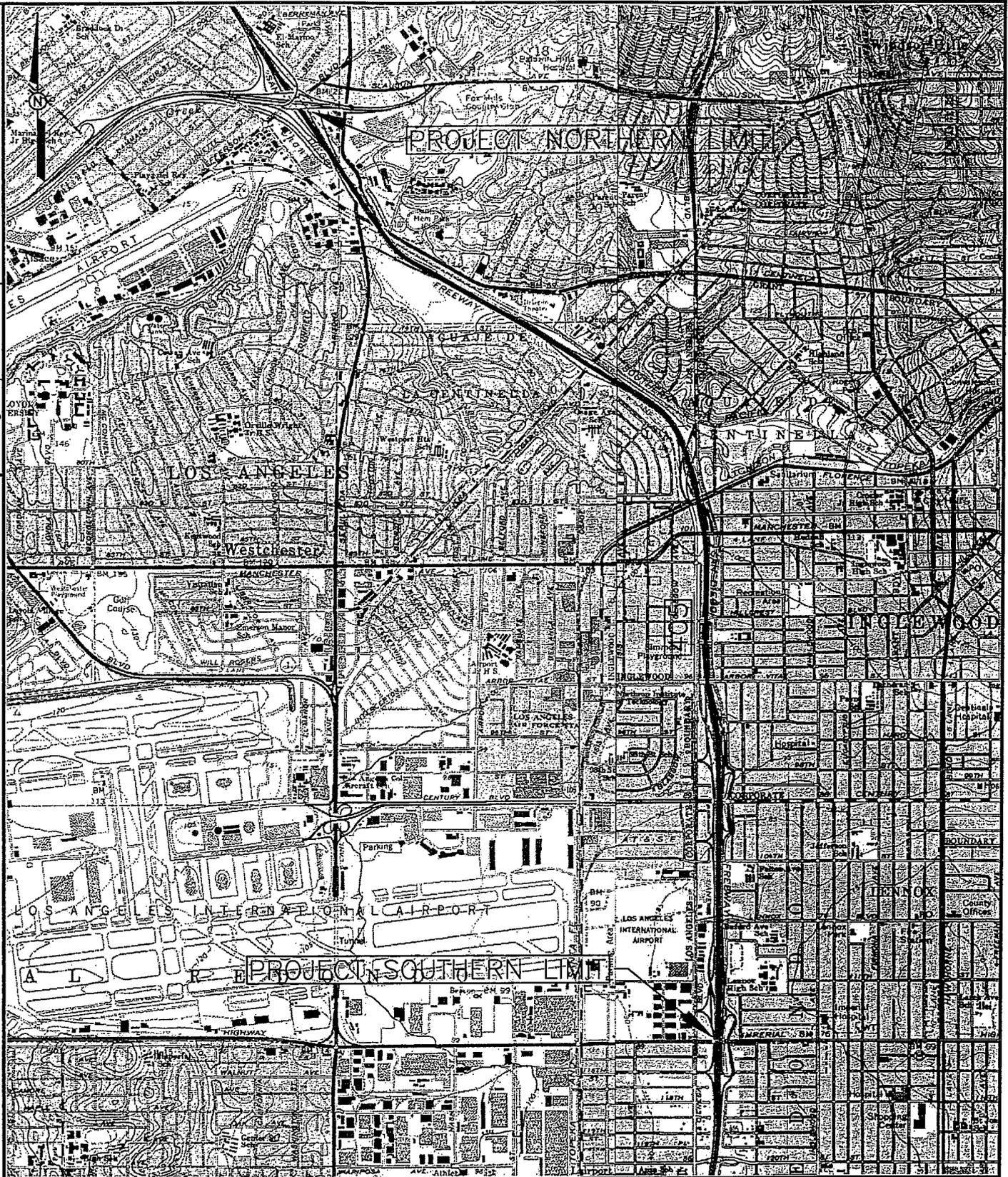
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IT (IT Corporation), 2001a, Work plan, aerially deposited lead investigation, Interstate Route 405 highway improvement project, Interstate Route 405 between post miles 21.3 to 26.0, Los Angeles County, California: dated July 27, 2001, 5 p.

IT, 2001b, Health and safety plan, aerially deposited lead investigation, Interstate Route 405 highway improvement project, Interstate Route 405 between post miles 21.3 to 26.0, Los Angeles County, California: dated July 27, 2001, 11 p.

PROJECT NUMBER 829965
C Douglas 07-25-01



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CALTRANS ROUTE 405
AERIALLY DEPOSITED LEAD INVESTIGATION
TASK ORDER No.04 EA No.07-119851
CONTRACT No.43A0023

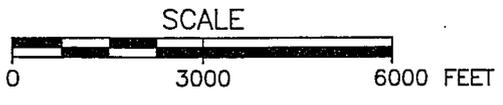


FIGURE 1
SITE VICINITY MAP

BORING AND SAMPLE INFORMATION
 Interstate Route 405 Between Post Miles 21.3 and 26.0
 Los Angeles County, California

Site ID	Roadway Segment ID	Contractor Borehole ID	Borehole Description	Borehole Latitude	Borehole Longitude	Borehole Depth	Borehole Depth Units	Parcel Number	Sample ID	Sample Date	Sample Depth	Sample Depth Units	Matrix
RW2-1	Location 2 Northbound	RW2-1	hand auger	33.96640964	-118.3704676	1.05	m		RW2-1-0.0	08/01/01	0.0	m	soil
RW2-1	Location 2 Northbound	RW2-1	hand auger	33.96640964	-118.3704676	1.05	m		RW2-1-0.3	08/01/01	0.3	m	soil
RW2-1	Location 2 Northbound	RW2-1	hand auger	33.96640964	-118.3704676	1.05	m		RW2-1-0.6	08/01/01	0.6	m	soil
RW2-1	Location 2 Northbound	RW2-1	hand auger	33.96640964	-118.3704676	1.05	m		RW2-1-0.9	08/01/01	0.9	m	soil
RW2-2	Location 2 Northbound	RW2-2	hand auger	33.97070748	-118.3752177	1.05	m		RW2-2-0.0	08/01/01	0.0	m	soil
RW2-2	Location 2 Northbound	RW2-2	hand auger	33.97070748	-118.3752177	1.05	m		RW2-2-0.3	08/01/01	0.3	m	soil
RW2-2	Location 2 Northbound	RW2-2	hand auger	33.97070748	-118.3752177	1.05	m		RW2-2-0.6	08/01/01	0.6	m	soil
RW2-2	Location 2 Northbound	RW2-2	hand auger	33.97070748	-118.3752177	1.05	m		RW2-2-0.9	08/01/01	0.9	m	soil
RW3-1	Location 3 Northbound	RW3-1	hand auger	33.97385906	-118.3810294	1.05	m		RW3-1-0.0	08/01/01	0.0	m	soil
RW3-1	Location 3 Northbound	RW3-1	hand auger	33.97385906	-118.3810294	1.05	m		RW3-1-0.3	08/01/01	0.3	m	soil
RW3-1	Location 3 Northbound	RW3-1	hand auger	33.97385906	-118.3810294	1.05	m		RW3-1-0.6	08/01/01	0.6	m	soil
RW3-1	Location 3 Northbound	RW3-1	hand auger	33.97385906	-118.3810294	1.05	m		RW3-1-0.9	08/01/01	0.9	m	soil
RW3-2	Location 3 Northbound	RW3-2	hand auger	33.97464296	-118.3825859	1.05	m		RW3-2-0.0	08/02/01	0.0	m	soil
RW3-2	Location 3 Northbound	RW3-2	hand auger	33.97464296	-118.3825859	1.05	m		RW3-2-0.3	08/02/01	0.3	m	soil
RW3-2	Location 3 Northbound	RW3-2	hand auger	33.97464296	-118.3825859	1.05	m		RW3-2-0.6	08/02/01	0.6	m	soil
RW3-2	Location 3 Northbound	RW3-2	hand auger	33.97464296	-118.3825859	1.05	m		RW3-2-0.9	08/02/01	0.9	m	soil
RW4-1	Location 4 Northbound	RW4-1	hand auger	33.97564102	-118.3845657	1.05	m		RW4-1-0.0	08/02/01	0.0	m	soil
RW4-1	Location 4 Northbound	RW4-1	hand auger	33.97564102	-118.3845657	1.05	m		RW4-1-0.3	08/02/01	0.3	m	soil
RW4-1	Location 4 Northbound	RW4-1	hand auger	33.97564102	-118.3845657	1.05	m		RW4-1-0.6	08/02/01	0.6	m	soil
RW4-1	Location 4 Northbound	RW4-1	hand auger	33.97564102	-118.3845657	1.05	m		RW4-1-0.9	08/02/01	0.9	m	soil
RW4-2	Location 4 Northbound	RW4-2	hand auger	33.97771129	-118.3889862	1.05	m		RW4-2-0.0	08/02/01	0.0	m	soil
RW4-2	Location 4 Northbound	RW4-2	hand auger	33.97771129	-118.3889862	1.05	m		RW4-2-0.3	08/02/01	0.3	m	soil
RW4-2	Location 4 Northbound	RW4-2	hand auger	33.97771129	-118.3889862	1.05	m		RW4-2-0.6	08/02/01	0.6	m	soil
RW4-2	Location 4 Northbound	RW4-2	hand auger	33.97771129	-118.3889862	1.05	m		RW4-2-0.9	08/02/01	0.9	m	soil
RW5-1	Location 5 Northbound	RW5-1	hand auger	33.98606028	-118.3974769	1.05	m		RW5-1-0.0	08/02/01	0.0	m	soil
RW5-1	Location 5 Northbound	RW5-1	hand auger	33.98606028	-118.3974769	1.05	m		RW5-1-0.3	08/02/01	0.3	m	soil
RW5-1	Location 5 Northbound	RW5-1	hand auger	33.98606028	-118.3974769	1.05	m		RW5-1-0.6	08/02/01	0.6	m	soil
RW5-1	Location 5 Northbound	RW5-1	hand auger	33.98606028	-118.3974769	1.05	m		RW5-1-0.9	08/02/01	0.9	m	soil
RW5-2	Location 5 Northbound	RW5-2	hand auger	33.98858611	-118.3994794	1.05	m		RW5-2-0.0	08/02/01	0.0	m	soil
RW5-2	Location 5 Northbound	RW5-2	hand auger	33.98858611	-118.3994794	1.05	m		RW5-2-0.3	08/02/01	0.3	m	soil
RW5-2	Location 5 Northbound	RW5-2	hand auger	33.98858611	-118.3994794	1.05	m		RW5-2-0.6	08/02/01	0.6	m	soil
RW5-2	Location 5 Northbound	RW5-2	hand auger	33.98858611	-118.3994794	1.05	m		RW5-2-0.9	08/02/01	0.9	m	soil
RW6-1	Location 6 Southbound	RW6-1	hand auger	33.93795862	-118.368726	1.05	m		RW6-1-0.0	08/02/01	0.0	m	soil
RW6-1	Location 6 Southbound	RW6-1	hand auger	33.93795862	-118.368726	1.05	m		RW6-1-0.3	08/02/01	0.3	m	soil
RW6-1	Location 6 Southbound	RW6-1	hand auger	33.93795862	-118.368726	1.05	m		RW6-1-0.6	08/02/01	0.6	m	soil
RW6-1	Location 6 Southbound	RW6-1	hand auger	33.93795862	-118.368726	1.05	m		RW6-1-0.9	08/02/01	0.9	m	soil
RW6-2	Location 6 Southbound	RW6-2	hand auger	33.94318748	-118.3688811	1.05	m		RW6-2-0.0	08/02/01	0.0	m	soil
RW6-2	Location 6 Southbound	RW6-2	hand auger	33.94318748	-118.3688811	1.05	m		RW6-2-0.3	08/02/01	0.3	m	soil
RW6-2	Location 6 Southbound	RW6-2	hand auger	33.94318748	-118.3688811	1.05	m		RW6-2-0.6	08/02/01	0.6	m	soil
RW6-2	Location 6 Southbound	RW6-2	hand auger	33.94318748	-118.3688811	1.05	m		RW6-2-0.9	08/02/01	0.9	m	soil
RW6-3	Location 6 Southbound	RW6-3	hand auger	33.9486041	-118.3686833	1.05	m		RW6-3-0.0	07/31/01	0.0	m	soil
RW6-3	Location 6 Southbound	RW6-3	hand auger	33.9486041	-118.3686833	1.05	m		RW6-3-0.3	07/31/01	0.3	m	soil
RW6-3	Location 6 Southbound	RW6-3	hand auger	33.9486041	-118.3686833	1.05	m		RW6-3-0.6	07/31/01	0.6	m	soil
RW6-3	Location 6 Southbound	RW6-3	hand auger	33.9486041	-118.3686833	1.05	m		RW6-3-0.9	07/31/01	0.9	m	soil
RW7-1	Location 7 Southbound	RW7-1	hand auger	33.96838917	-118.3723444	1.05	m		RW7-1-0.0	07/31/01	0.0	m	soil
RW7-1	Location 7 Southbound	RW7-1	hand auger	33.96838917	-118.3723444	1.05	m		RW7-1-0.3	07/31/01	0.3	m	soil
RW7-1	Location 7 Southbound	RW7-1	hand auger	33.96838917	-118.3723444	1.05	m		RW7-1-0.6	07/31/01	0.6	m	soil
RW7-1	Location 7 Southbound	RW7-1	hand auger	33.96838917	-118.3723444	1.05	m		RW7-1-0.9	07/31/01	0.9	m	soil
RW7-2	Location 7 Southbound	RW7-2	hand auger	33.96958866	-118.3741021	1.05	m		RW7-2-0.0	07/31/01	0.0	m	soil

BORING AND SAMPLE INFORMATION
 Interstate Route 405 Between Post Miles 21.3 and 26.0
 Los Angeles County, California

Site ID	Roadway Segment ID	Contractor Borehole ID	Borehole Description	Borehole Latitude	Borehole Longitude	Borehole Depth	Borehole Depth Units	Parcel Number	Sample ID	Sample Date	Sample Depth	Sample Depth Units	Matrix
RW7-2	Location 7 Southbound	RW7-2	hand auger	33.96958866	-118.3741021	1.05	m		RW7-2-0.3	07/31/01	0.3	m	soil
RW7-2	Location 7 Southbound	RW7-2	hand auger	33.96958866	-118.3741021	1.05	m		RW7-2-0.6	07/31/01	0.6	m	soil
RW7-2	Location 7 Southbound	RW7-2	hand auger	33.96958866	-118.3741021	1.05	m		RW7-2-0.9	07/31/01	0.9	m	soil
RW8-1	Location 8 Southbound	RW8-1	hand auger	33.97256619	-118.3797362	1.05	m		RW8-1-0.0	07/31/01	0.0	m	soil
RW8-1	Location 8 Southbound	RW8-1	hand auger	33.97256619	-118.3797362	1.05	m		RW8-1-0.3	07/31/01	0.3	m	soil
RW8-1	Location 8 Southbound	RW8-1	hand auger	33.97256619	-118.3797362	1.05	m		RW8-1-0.6	07/31/01	0.6	m	soil
RW8-1	Location 8 Southbound	RW8-1	hand auger	33.97256619	-118.3797362	1.05	m		RW8-1-0.9	07/31/01	0.9	m	soil
RW8-2	Location 8 Southbound	RW8-2	hand auger	33.97277498	-118.3801009	1.05	m		RW8-2-0.0	07/31/01	0.0	m	soil
RW8-2	Location 8 Southbound	RW8-2	hand auger	33.97277498	-118.3801009	1.05	m		RW8-2-0.3	07/31/01	0.3	m	soil
RW8-2	Location 8 Southbound	RW8-2	hand auger	33.97277498	-118.3801009	1.05	m		RW8-2-0.6	07/31/01	0.6	m	soil
RW8-2	Location 8 Southbound	RW8-2	hand auger	33.97277498	-118.3801009	1.05	m		RW8-2-0.9	07/31/01	0.9	m	soil
RW10-1	Location 10 Southbound	RW10-1	hand auger	33.98679866	-118.3986642	1.05	m		RW10-1-0.0	07/31/01	0.0	m	soil
RW10-1	Location 10 Southbound	RW10-1	hand auger	33.98679866	-118.3986642	1.05	m		RW10-1-0.3	07/31/01	0.3	m	soil
RW10-1	Location 10 Southbound	RW10-1	hand auger	33.98679866	-118.3986642	1.05	m		RW10-1-0.6	07/31/01	0.6	m	soil
RW10-1	Location 10 Southbound	RW10-1	hand auger	33.98679866	-118.3986642	1.05	m		RW10-1-0.9	07/31/01	0.9	m	soil
RW10-2	Location 10 Southbound	RW10-2	hand auger	33.98847332	-118.3999918	1.05	m		RW10-2-0.0	07/31/01	0.0	m	soil
RW10-2	Location 10 Southbound	RW10-2	hand auger	33.98847332	-118.3999918	1.05	m		RW10-2-0.3	07/31/01	0.3	m	soil
RW10-2	Location 10 Southbound	RW10-2	hand auger	33.98847332	-118.3999918	1.05	m		RW10-2-0.6	07/31/01	0.6	m	soil
RW10-2	Location 10 Southbound	RW10-2	hand auger	33.98847332	-118.3999918	1.05	m		RW10-2-0.9	07/31/01	0.9	m	soil
SW348-1	Soundwall Northbound	SW348-1	hand auger	33.93753073	-118.3677235	1.65	m		SW348-1-0.0	08/02/01	0.0	m	soil
SW348-1	Soundwall Northbound	SW348-1	hand auger	33.93753073	-118.3677235	1.65	m		SW348-1-0.3	08/02/01	0.3	m	soil
SW348-1	Soundwall Northbound	SW348-1	hand auger	33.93753073	-118.3677235	1.65	m		SW348-1-0.6	08/02/01	0.6	m	soil
SW348-1	Soundwall Northbound	SW348-1	hand auger	33.93753073	-118.3677235	1.65	m		SW348-1-0.9	08/02/01	0.9	m	soil
SW348-2	Soundwall Northbound	SW348-2	hand auger	33.93753073	-118.3677235	1.65	m		SW348-2-0.0	08/01/01	1.5	m	soil
SW348-2	Soundwall Northbound	SW348-2	hand auger	33.93753073	-118.3677235	1.65	m		SW348-2-0.3	08/01/01	0.3	m	soil
SW348-2	Soundwall Northbound	SW348-2	hand auger	33.93753073	-118.3677235	1.65	m		SW348-2-0.6	08/01/01	0.6	m	soil
SW348-2	Soundwall Northbound	SW348-2	hand auger	33.93753073	-118.3677235	1.65	m		SW348-2-0.9	08/01/01	0.9	m	soil
SW352-1	Soundwall Northbound	SW352-1	hand auger	33.93889609	-118.3678571	1.65	m		SW352-1-0.0	08/01/01	0.0	m	soil
SW352-1	Soundwall Northbound	SW352-1	hand auger	33.93889609	-118.3678571	1.65	m		SW352-1-0.3	08/01/01	0.3	m	soil
SW352-1	Soundwall Northbound	SW352-1	hand auger	33.93889609	-118.3678571	1.65	m		SW352-1-0.6	08/01/01	0.6	m	soil
SW352-1	Soundwall Northbound	SW352-1	hand auger	33.93889609	-118.3678571	1.65	m		SW352-1-0.9	08/01/01	0.9	m	soil
SW352-2	Soundwall Northbound	SW352-2	hand auger	33.94367595	-118.3673325	1.65	m		SW352-2-0.0	08/02/01	0.0	m	soil
SW352-2	Soundwall Northbound	SW352-2	hand auger	33.94367595	-118.3673325	1.65	m		SW352-2-0.3	08/02/01	0.3	m	soil
SW352-2	Soundwall Northbound	SW352-2	hand auger	33.94367595	-118.3673325	1.65	m		SW352-2-0.6	08/02/01	0.6	m	soil
SW352-2	Soundwall Northbound	SW352-2	hand auger	33.94367595	-118.3673325	1.65	m		SW352-2-0.9	08/02/01	0.9	m	soil
SW366-1	Soundwall Northbound	SW366-1	hand auger	33.95312598	-118.3687028	1.65	m		SW366-1-0.0	08/02/01	1.2	m	soil
SW366-1	Soundwall Northbound	SW366-1	hand auger	33.95312598	-118.3687028	1.65	m		SW366-1-0.3	08/02/01	0.0	m	soil
SW366-1	Soundwall Northbound	SW366-1	hand auger	33.95312598	-118.3687028	1.65	m		SW366-1-0.6	08/02/01	0.3	m	soil
SW366-1	Soundwall Northbound	SW366-1	hand auger	33.95312598	-118.3687028	1.65	m		SW366-1-0.9	08/02/01	0.6	m	soil
SW366-2	Soundwall Northbound	SW366-2	hand auger	33.95475694	-118.3688017	1.65	m		SW366-2-0.0	08/02/01	1.5	m	soil
SW366-2	Soundwall Northbound	SW366-2	hand auger	33.95475694	-118.3688017	1.65	m		SW366-2-0.3	08/02/01	0.0	m	soil
SW366-2	Soundwall Northbound	SW366-2	hand auger	33.95475694	-118.3688017	1.65	m		SW366-2-0.6	08/02/01	0.3	m	soil
SW366-2	Soundwall Northbound	SW366-2	hand auger	33.95475694	-118.3688017	1.65	m		SW366-2-0.9	08/02/01	0.6	m	soil
SW368-1	Soundwall Northbound	SW368-1	hand auger	33.95621761	-118.3689139	1.65	m		SW368-1-0.0	08/02/01	1.5	m	soil
SW368-1	Soundwall Northbound	SW368-1	hand auger	33.95621761	-118.3689139	1.65	m		SW368-1-0.3	08/02/01	0.0	m	soil

BORING AND SAMPLE INFORMATION
 Interstate Route 405 Between Post Miles 21.3 and 26.0
 Los Angeles County, California

Site ID	Roadway Segment ID	Contractor Borehole ID	Borehole Description	Borehole Latitude	Borehole Longitude	Borehole Depth	Borehole Depth Units	Parcel Number	Sample ID	Sample Date	Sample Depth	Sample Depth Units	Matrix
SW368-1	Soundwall Northbound	SW368-1	hand auger	33.95521761	-118.36889139	1.65	m		SW368-1-0.3	08/02/01	0.3	m	soil
SW368-1	Soundwall Northbound	SW368-1	hand auger	33.95521761	-118.36889139	1.65	m		SW368-1-0.6	08/02/01	0.6	m	soil
SW368-1	Soundwall Northbound	SW368-1	hand auger	33.95521761	-118.36889139	1.05	m		SW368-1-0.9	08/02/01	0.9	m	soil
SW368-2	Soundwall Northbound	SW368-2	hand auger	33.95643532	-118.3687822	1.65	m		SW368-2-0.0	08/02/01	0.0	m	soil
SW368-2	Soundwall Northbound	SW368-2	hand auger	33.95643532	-118.3687822	1.65	m		SW368-2-0.3	08/02/01	0.3	m	soil
SW368-2	Soundwall Northbound	SW368-2	hand auger	33.95643532	-118.3687822	1.65	m		SW368-2-0.6	08/02/01	0.6	m	soil
SW368-2	Soundwall Northbound	SW368-2	hand auger	33.95643532	-118.3687822	1.65	m		SW368-2-0.9	08/02/01	0.9	m	soil
SW368-2	Soundwall Northbound	SW368-2	hand auger	33.95643532	-118.3687822	1.65	m		SW368-2-1.5	08/02/01	1.5	m	soil
SW370-1	Soundwall Northbound	SW370-1	hand auger	33.95662529	-118.3687811	1.65	m		SW370-1-0.0	08/02/01	0.0	m	soil
SW370-1	Soundwall Northbound	SW370-1	hand auger	33.95662529	-118.3687811	1.65	m		SW370-1-0.3	08/02/01	0.3	m	soil
SW370-1	Soundwall Northbound	SW370-1	hand auger	33.95662529	-118.3687811	1.65	m		SW370-1-0.6	08/02/01	0.6	m	soil
SW370-1	Soundwall Northbound	SW370-1	hand auger	33.95662529	-118.3687811	1.65	m		SW370-1-0.9	08/02/01	0.9	m	soil
SW370-1	Soundwall Northbound	SW370-1	hand auger	33.95662529	-118.3687811	1.65	m		SW370-1-1.5	08/02/01	1.5	m	soil
SW370-2	Soundwall Northbound	SW370-2	hand auger	33.96029629	-118.36883502	1.65	m		SW370-2-0.0	08/02/01	0.0	m	soil
SW370-2	Soundwall Northbound	SW370-2	hand auger	33.96029629	-118.36883502	1.65	m		SW370-2-0.3	08/02/01	0.3	m	soil
SW370-2	Soundwall Northbound	SW370-2	hand auger	33.96029629	-118.36883502	1.65	m		SW370-2-0.6	08/02/01	0.6	m	soil
SW370-2	Soundwall Northbound	SW370-2	hand auger	33.96029629	-118.36883502	1.65	m		SW370-2-0.9	08/02/01	0.9	m	soil
SW370-2	Soundwall Northbound	SW370-2	hand auger	33.96029629	-118.36883502	1.65	m		SW370-2-1.5	08/02/01	1.5	m	soil
SW376-1	Soundwall Northbound	SW376-1	hand auger	33.96225161	-118.3686023	1.65	m		SW376-1-0.0	08/01/01	0.0	m	soil
SW376-1	Soundwall Northbound	SW376-1	hand auger	33.96225161	-118.3686023	1.65	m		SW376-1-0.3	08/01/01	0.3	m	soil
SW376-1	Soundwall Northbound	SW376-1	hand auger	33.96225161	-118.3686023	1.65	m		SW376-1-0.6	08/01/01	0.6	m	soil
SW376-1	Soundwall Northbound	SW376-1	hand auger	33.96225161	-118.3686023	1.65	m		SW376-1-0.9	08/01/01	0.9	m	soil
SW376-1	Soundwall Northbound	SW376-1	hand auger	33.96225161	-118.3686023	1.65	m		SW376-1-1.5	08/01/01	1.5	m	soil
SW376-2	Soundwall Northbound	SW376-2	hand auger	33.962433	-118.3686759	1.65	m		SW376-2-0.0	08/01/01	0.0	m	soil
SW376-2	Soundwall Northbound	SW376-2	hand auger	33.962433	-118.3686759	1.65	m		SW376-2-0.3	08/01/01	0.3	m	soil
SW376-2	Soundwall Northbound	SW376-2	hand auger	33.962433	-118.3686759	1.65	m		SW376-2-0.6	08/01/01	0.6	m	soil
SW376-2	Soundwall Northbound	SW376-2	hand auger	33.962433	-118.3686759	1.65	m		SW376-2-0.9	08/01/01	0.9	m	soil
SW376-2	Soundwall Northbound	SW376-2	hand auger	33.962433	-118.3686759	1.65	m		SW376-2-1.5	08/01/01	1.5	m	soil
SW384-1	Soundwall Northbound	SW384-1	hand auger	33.96733013	-118.3707628	1.65	m		SW384-1-0.0	08/01/01	0.0	m	soil
SW384-1	Soundwall Northbound	SW384-1	hand auger	33.96733013	-118.3707628	1.65	m		SW384-1-0.3	08/01/01	0.3	m	soil
SW384-1	Soundwall Northbound	SW384-1	hand auger	33.96733013	-118.3707628	1.65	m		SW384-1-0.6	08/01/01	0.6	m	soil
SW384-1	Soundwall Northbound	SW384-1	hand auger	33.96733013	-118.3707628	1.65	m		SW384-1-0.9	08/01/01	0.9	m	soil
SW384-1	Soundwall Northbound	SW384-1	hand auger	33.96733013	-118.3707628	1.65	m		SW384-1-1.5	08/01/01	1.5	m	soil
SW384-2	Soundwall Northbound	SW384-2	hand auger	33.96803223	-118.3712989	1.65	m		SW384-2-0.0	08/01/01	0.0	m	soil
SW384-2	Soundwall Northbound	SW384-2	hand auger	33.96803223	-118.3712989	1.65	m		SW384-2-0.3	08/01/01	0.3	m	soil
SW384-2	Soundwall Northbound	SW384-2	hand auger	33.96803223	-118.3712989	1.65	m		SW384-2-0.6	08/01/01	0.6	m	soil
SW384-2	Soundwall Northbound	SW384-2	hand auger	33.96803223	-118.3712989	1.65	m		SW384-2-0.9	08/01/01	0.9	m	soil
SW384-2	Soundwall Northbound	SW384-2	hand auger	33.96803223	-118.3712989	1.65	m		SW384-2-1.5	08/01/01	1.5	m	soil
SW384-3	Soundwall Northbound	SW384-3	hand auger	33.96880102	-118.3719973	1.65	m		SW384-3-0.0	08/01/01	0.0	m	soil
SW384-3	Soundwall Northbound	SW384-3	hand auger	33.96880102	-118.3719973	1.65	m		SW384-3-0.3	08/01/01	0.3	m	soil
SW384-3	Soundwall Northbound	SW384-3	hand auger	33.96880102	-118.3719973	1.65	m		SW384-3-0.6	08/01/01	0.6	m	soil
SW384-3	Soundwall Northbound	SW384-3	hand auger	33.96880102	-118.3719973	1.65	m		SW384-3-0.9	08/01/01	0.9	m	soil
SW384-3	Soundwall Northbound	SW384-3	hand auger	33.96880102	-118.3719973	1.65	m		SW384-3-1.5	08/01/01	1.5	m	soil
SW384-4	Soundwall Northbound	SW384-4	hand auger	33.96934086	-118.3727172	1.65	m		SW384-4-0.0	08/01/01	0.0	m	soil
SW384-4	Soundwall Northbound	SW384-4	hand auger	33.96934086	-118.3727172	1.65	m		SW384-4-0.3	08/01/01	0.3	m	soil
SW384-4	Soundwall Northbound	SW384-4	hand auger	33.96934086	-118.3727172	1.65	m		SW384-4-0.6	08/01/01	0.6	m	soil

BORING AND SAMPLE INFORMATION
 Interstate Route 405 Between Post Miles 21.3 and 26.0
 Los Angeles County, California

Site ID	Roadway Segment ID	Contractor Borehole ID	Borehole Description	Borehole Latitude	Borehole Longitude	Borehole Depth	Borehole Depth Units	Parcel Number	Sample ID	Sample Date	Sample Depth	Sample Depth Units	Matrix
SW384-4	Soundwall Northbound	SW384-4	hand auger	33.96934086	-118.3727172	1.65	m		SW384-4-0.9	08/01/01	0.9	m	soil
SW384-4	Soundwall Northbound	SW384-4	hand auger	33.96934086	-118.3727172	1.65	m		SW384-4-1.5	08/01/01	1.5	m	soil
SW384-5	Soundwall Northbound	SW384-5	hand auger	33.97025611	-118.3742945	1.65	m		SW384-5-0.0	08/01/01	0.0	m	soil
SW384-5	Soundwall Northbound	SW384-5	hand auger	33.97025611	-118.3742945	1.65	m		SW384-5-0.3	08/01/01	0.3	m	soil
SW384-5	Soundwall Northbound	SW384-5	hand auger	33.97025611	-118.3742945	1.65	m		SW384-5-0.6	08/01/01	0.6	m	soil
SW384-5	Soundwall Northbound	SW384-5	hand auger	33.97025611	-118.3742945	1.65	m		SW384-5-0.9	08/01/01	0.9	m	soil
SW384-5	Soundwall Northbound	SW384-5	hand auger	33.97025611	-118.3742945	1.65	m		SW384-5-1.5	08/01/01	1.2	m	soil
SW384-6	Soundwall Northbound	SW384-6	hand auger	33.9715538	-118.3765692	1.65	m		SW384-6-0.0	08/02/01	0.0	m	soil
SW384-6	Soundwall Northbound	SW384-6	hand auger	33.9715538	-118.3765692	1.65	m		SW384-6-0.3	08/02/01	0.3	m	soil
SW384-6	Soundwall Northbound	SW384-6	hand auger	33.9715538	-118.3765692	1.65	m		SW384-6-0.6	08/02/01	0.6	m	soil
SW384-6	Soundwall Northbound	SW384-6	hand auger	33.9715538	-118.3765692	1.65	m		SW384-6-0.9	08/02/01	0.9	m	soil
SW384-6	Soundwall Northbound	SW384-6	hand auger	33.9715538	-118.3765692	1.65	m		SW384-6-1.5	08/02/01	1.5	m	soil
SW381-1	Soundwall Southbound	SW381-1	hand auger	33.9648285	-118.3713248	0.45	m		SW381-1-0.0	07/31/01	0.0	m	soil
SW381-1	Soundwall Southbound	SW381-1	hand auger	33.9648285	-118.3713248	0.45	m		SW381-1-0.3	07/31/01	0.3	m	soil
SW381-2	Soundwall Southbound	SW381-2	hand auger	33.96612616	-118.371481	1.65	m		SW381-2-0.0	07/31/01	0.0	m	soil
SW381-2	Soundwall Southbound	SW381-2	hand auger	33.96612616	-118.371481	1.65	m		SW381-2-0.3	07/31/01	0.3	m	soil
SW381-2	Soundwall Southbound	SW381-2	hand auger	33.96612616	-118.371481	1.65	m		SW381-2-0.6	07/31/01	0.6	m	soil
SW381-2	Soundwall Southbound	SW381-2	hand auger	33.96612616	-118.371481	1.65	m		SW381-2-0.9	07/31/01	0.9	m	soil
SW381-2	Soundwall Southbound	SW381-2	hand auger	33.96612616	-118.371481	1.65	m		SW381-2-1.5	07/31/01	1.5	m	soil
SW387-1	Soundwall Southbound	SW387-1	hand auger	33.96992392	-118.3748758	1.65	m		SW387-1-0.0	07/31/01	0.0	m	soil
SW387-1	Soundwall Southbound	SW387-1	hand auger	33.96992392	-118.3748758	1.65	m		SW387-1-0.3	07/31/01	0.3	m	soil
SW387-1	Soundwall Southbound	SW387-1	hand auger	33.96992392	-118.3748758	1.65	m		SW387-1-0.6	07/31/01	0.6	m	soil
SW387-1	Soundwall Southbound	SW387-1	hand auger	33.96992392	-118.3748758	1.65	m		SW387-1-0.9	07/31/01	0.9	m	soil
SW387-1	Soundwall Southbound	SW387-1	hand auger	33.96992392	-118.3748758	1.65	m		SW387-1-1.5	07/31/01	1.5	m	soil
SW387-2	Soundwall Southbound	SW387-2	hand auger	33.97083729	-118.3770401	1.65	m		SW387-2-0.0	07/31/01	0.0	m	soil
SW387-2	Soundwall Southbound	SW387-2	hand auger	33.97083729	-118.3770401	1.65	m		SW387-2-0.3	07/31/01	0.3	m	soil
SW387-2	Soundwall Southbound	SW387-2	hand auger	33.97083729	-118.3770401	1.65	m		SW387-2-0.6	07/31/01	0.6	m	soil
SW387-2	Soundwall Southbound	SW387-2	hand auger	33.97083729	-118.3770401	1.65	m		SW387-2-0.9	07/31/01	0.9	m	soil
SW387-2	Soundwall Southbound	SW387-2	hand auger	33.97083729	-118.3770401	1.65	m		SW387-2-1.5	07/31/01	1.5	m	soil
SW397-1	Soundwall Southbound	SW397-1	hand auger	33.97405757	-118.3824935	1.65	m		SW397-1-0.0	07/31/01	0.0	m	soil
SW397-1	Soundwall Southbound	SW397-1	hand auger	33.97405757	-118.3824935	1.65	m		SW397-1-0.3	07/31/01	0.3	m	soil
SW397-1	Soundwall Southbound	SW397-1	hand auger	33.97405757	-118.3824935	1.65	m		SW397-1-0.6	07/31/01	0.6	m	soil
SW397-1	Soundwall Southbound	SW397-1	hand auger	33.97405757	-118.3824935	1.65	m		SW397-1-0.9	07/31/01	0.9	m	soil
SW397-1	Soundwall Southbound	SW397-1	hand auger	33.97405757	-118.3824935	1.65	m		SW397-1-1.5	07/31/01	1.5	m	soil
SW397-2	Soundwall Southbound	SW397-2	hand auger	33.97432698	-118.3829154	1.65	m		SW397-2-0.0	07/31/01	0.0	m	soil
SW397-2	Soundwall Southbound	SW397-2	hand auger	33.97432698	-118.3829154	1.65	m		SW397-2-0.3	07/31/01	0.3	m	soil
SW397-2	Soundwall Southbound	SW397-2	hand auger	33.97432698	-118.3829154	1.65	m		SW397-2-0.6	07/31/01	0.6	m	soil
SW397-2	Soundwall Southbound	SW397-2	hand auger	33.97432698	-118.3829154	1.65	m		SW397-2-0.9	07/31/01	0.9	m	soil
SW397-2	Soundwall Southbound	SW397-2	hand auger	33.97432698	-118.3829154	1.65	m		SW397-2-1.5	07/31/01	1.5	m	soil
RW397S-1	Retaining Wall	RW397S-1	hand auger	33.97391	-118.3823	0.15	m		RW397-1-0.0	07/31/01	0.0	m	soil
RW397-1	Retaining Wall	RW397-1	hand auger	33.97393487	-118.3823633	1.65	m		RW397-1-0.3	07/31/01	0.3	m	soil
RW397-1	Retaining Wall	RW397-1	hand auger	33.97393487	-118.3823633	1.65	m		RW397-1-0.6	07/31/01	0.6	m	soil
RW397-1	Retaining Wall	RW397-1	hand auger	33.97393487	-118.3823633	1.65	m		RW397-1-0.9	07/31/01	0.9	m	soil
RW397-1	Retaining Wall	RW397-1	hand auger	33.97393487	-118.3823633	1.65	m		RW397-1-1.5	07/31/01	1.5	m	soil
RW397-2	Retaining Wall	RW397-2	hand auger	33.97410931	-118.3824862	1.65	m		RW397-2-0.0	07/31/01	0.0	m	soil
RW397-2	Retaining Wall	RW397-2	hand auger	33.97410931	-118.3824862	1.65	m		RW397-2-0.3	07/31/01	0.3	m	soil
RW397-2	Retaining Wall	RW397-2	hand auger	33.97410931	-118.3824862	1.65	m		RW397-2-0.6	07/31/01	0.6	m	soil
RW397-2	Retaining Wall	RW397-2	hand auger	33.97410931	-118.3824862	1.65	m		RW397-2-0.9	07/31/01	0.9	m	soil
RW397-2	Retaining Wall	RW397-2	hand auger	33.97410931	-118.3824862	1.65	m		RW397-2-1.5	07/31/01	1.5	m	soil

ANALYTICAL RESULTS

Interstate Route 405 Between Post Miles 21.3 and 26.0
Los Angeles County, California

Site ID	Contractor Borehole ID	Sample ID	Analysis Type	Lab Analysis ID	Matrix	Analysis Date	Lab Name	Result Units	Analyte	Value	Method Detection Limit
RW2-1	RW2-1	RW2-1-0.0	TTL	283793	soil	8/7/2001	Associated	mg/kg	Antimony	4.04	3.0
RW2-1	RW2-1	RW2-1-0.0	TTL	283793	soil	8/8/2001	Associated	mg/kg	Arsenic	4.32	0.5
RW2-1	RW2-1	RW2-1-0.0	TTL	283793	soil	8/7/2001	Associated	mg/kg	Barium	203	1.0
RW2-1	RW2-1	RW2-1-0.0	TTL	283793	soil	8/7/2001	Associated	mg/kg	Beryllium	0.50	0.5
RW2-1	RW2-1	RW2-1-0.0	TTL	283793	soil	8/7/2001	Associated	mg/kg	Cadmium	1.67	0.5
RW2-1	RW2-1	RW2-1-0.0	TTL	283793	soil	8/7/2001	Associated	mg/kg	Chromium	29.0	10.0
RW2-1	RW2-1	RW2-1-0.0	TTL	283793	soil	8/7/2001	Associated	mg/kg	Cobalt	14.0	0.5
RW2-1	RW2-1	RW2-1-0.0	TTL	283793	soil	8/7/2001	Associated	mg/kg	Copper	64.8	1.0
RW2-1	RW2-1	RW2-1-0.0	TTL	283793	soil	8/7/2001	Associated	mg/kg	Molybdenum	ND	1.0
RW2-1	RW2-1	RW2-1-0.0	TTL	283793	soil	8/7/2001	Associated	mg/kg	Nickel	25.7	1.5
RW2-1	RW2-1	RW2-1-0.0	TTL	283793	soil	8/7/2001	Associated	mg/kg	Selenium	ND	0.5
RW2-1	RW2-1	RW2-1-0.0	TTL	283793	soil	8/7/2001	Associated	mg/kg	Silver	ND	0.5
RW2-1	RW2-1	RW2-1-0.0	TTL	283793	soil	8/7/2001	Associated	mg/kg	Thallium	ND	1.0
RW2-1	RW2-1	RW2-1-0.0	TTL	283793	soil	8/7/2001	Associated	mg/kg	Vanadium	50.7	0.5
RW2-1	RW2-1	RW2-1-0.0	TTL	283793	soil	8/7/2001	Associated	mg/kg	Zinc	297	5.0
RW2-1	RW2-1	RW2-1-0.0	TTL	283793	soil	8/7/2001	Associated	mg/kg	Lead	1,280	10.0
RW2-1	RW2-1	RW2-1-0.0	TTL	283793	soil	8/7/2001	Associated	mg/kg	Mercury	0.14	0.1
RW2-1	RW2-1	RW2-1-0.0	TCLP	283793	soil	8/22/2001	Associated	mg/L	Lead	0.287	0.1
RW2-1	RW2-1	RW2-1-0.0	pH	283793	soil	8/6/2001	Associated	NA	pH	7.25	NA
RW2-1	RW2-1	RW2-1-0.3	TTL	283794	soil	8/7/2001	Associated	mg/kg	Lead	81.8	10.0
RW2-1	RW2-1	RW2-1-DUP (0.3)	TTL	283797	soil	8/7/2001	Associated	mg/kg	Lead	77.5	10.0
RW2-1	RW2-1	RW2-1-0.3	STLC	283794	soil	8/10/2001	Associated	mg/L	Lead	2.46	0.2
RW2-1	RW2-1	RW2-1-DUP (0.3)	STLC	283797	soil	8/10/2001	Associated	mg/L	Lead	3.28	0.2
RW2-1	RW2-1	RW2-1-0.6	TTL	283795	soil	8/7/2001	Associated	mg/kg	Lead	13.6	10.0
RW2-1	RW2-1	RW2-1-0.6	pH	283795	soil	8/6/2001	Associated	NA	pH	8.00	NA
RW2-1	RW2-1	RW2-1-0.9	TTL	283796	soil	8/7/2001	Associated	mg/kg	Lead	13.5	10.0
RW2-1	RW2-1	RW2-1-1.5	TTL	283797	soil	8/7/2001	Associated	mg/kg	Lead	77.5	10.0
RW2-1	RW2-1	RW2-1-1.5	STLC	283797	soil	8/10/2001	Associated	mg/L	Lead	3.28	0.2
RW2-2	RW2-2	RW2-2-0.0	TTL	283824	soil	8/7/2001	Associated	mg/kg	Lead	3,210	10.0
RW2-2	RW2-2	RW2-2-0.0	TCLP	283824	soil	8/22/2001	Associated	mg/L	Lead	0.456	0.1
RW2-2	RW2-2	RW2-2-0.3	TTL	283825	soil	8/7/2001	Associated	mg/kg	Lead	152	10.0
RW2-2	RW2-2	RW2-2-0.3	STLC	283825	soil	8/10/2001	Associated	mg/L	Lead	ND	0.2
RW2-2	RW2-2	RW2-2-0.3	pH	283825	soil	8/6/2001	Associated	NA	pH	7.35	NA
RW2-2	RW2-2	RW2-2-0.6	TTL	283826	soil	8/7/2001	Associated	mg/kg	Lead	11.4	10.0
RW2-2	RW2-2	RW2-2-0.9	TTL	283827	soil	8/7/2001	Associated	mg/kg	Lead	17.3	10.0
RW2-2	RW2-2	RW2-2-0.9	pH	283827	soil	8/6/2001	Associated	NA	pH	7.14	NA
RW3-1	RW3-1	RW3-1-0.0	TTL	283828	soil	8/7/2001	Associated	mg/kg	Lead	56.9	10.0
RW3-1	RW3-1	RW3-1-0.0	STLC	283828	soil	8/10/2001	Associated	mg/L	Lead	0.88	0.2
RW3-1	RW3-1	RW3-1-0.0	pH	283828	soil	8/6/2001	Associated	NA	pH	7.21	NA
RW3-1	RW3-1	RW3-1-0.3	TTL	283829	soil	8/7/2001	Associated	mg/kg	Lead	39.7	10.0
RW3-1	RW3-1	RW3-1-0.6	TTL	283830	soil	8/7/2001	Associated	mg/kg	Lead	51.3	10.0

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Site ID	Contractor Borehole ID	Sample ID	Analysis Type	Lab Analysis ID	Matrix	Analysis Date	Lab Name	Result Units	Analyte	Value	Method Detection Limit
RW3-1	RW3-1	RW3-1-DUP (0.6)	TTL	283832	soil	8/7/2001	Associated	mg/kg	Lead	62.9	10.0
RW3-1	RW3-1	RW3-1-0.6	STLC	283830	soil	8/10/2001	Associated	mg/L	Lead	1.24	0.2
RW3-1	RW3-1	RW3-1-DUP (0.6)	STLC	283832	soil	8/10/2001	Associated	mg/L	Lead	1.31	0.2
RW3-1	RW3-1	RW3-1-0.6	pH	283830	soil	8/6/2001	Associated	NA	pH	8.26	NA
RW3-1	RW3-1	RW3-1-0.9	TTL	283831	soil	8/7/2001	Associated	mg/kg	Lead	59.9	10.0
RW3-1	RW3-1	RW3-1-0.9	STLC	283831	soil	8/10/2001	Associated	mg/L	Lead	1.03	0.2
RW3-2	RW3-2	RW3-2-0.0	TTL	283833	soil	8/7/2001	Associated	mg/kg	Lead	223	10.0
RW3-2	RW3-2	RW3-2-0.0	STLC	283833	soil	8/10/2001	Associated	mg/L	Lead	6.20	0.2
RW3-2	RW3-2	RW3-2-0.0	DI-STLC	283833	soil	8/13/2001	Associated	mg/L	Lead	ND	0.2
RW3-2	RW3-2	RW3-2-0.3	TTL	283834	soil	8/7/2001	Associated	mg/kg	Lead	ND	10.0
RW3-2	RW3-2	RW3-2-0.3	pH	283834	soil	8/6/2001	Associated	NA	pH	8.24	NA
RW3-2	RW3-2	RW3-2-0.6	TTL	283835	soil	8/7/2001	Associated	mg/kg	Lead	156	10.0
RW3-2	RW3-2	RW3-2-0.6	STLC	283835	soil	8/10/2001	Associated	mg/L	Lead	9.08	0.2
RW3-2	RW3-2	RW3-2-0.6	DI-STLC	283835	soil	8/13/2001	Associated	mg/L	Lead	ND	0.2
RW3-2	RW3-2	RW3-2-0.9	TTL	283836	soil	8/7/2001	Associated	mg/kg	Lead	ND	10.0
RW3-2	RW3-2	RW3-2-0.9	pH	283836	soil	8/6/2001	Associated	NA	pH	8.35	NA
RW4-1	RW4-1	RW4-1-0.0	TTL	283886	soil	8/7/2001	Associated	mg/kg	Lead	149	10.0
RW4-1	RW4-1	RW4-1-0.0	STLC	283886	soil	8/10/2001	Associated	mg/L	Lead	5.86	0.2
RW4-1	RW4-1	RW4-1-0.0	DI-STLC	283886	soil	8/13/2001	Associated	mg/L	Lead	ND	0.2
RW4-1	RW4-1	RW4-1-0.0	pH	283886	soil	8/6/2001	Associated	NA	pH	6.93	NA
RW4-1	RW4-1	RW4-1-0.3	TTL	283887	soil	8/7/2001	Associated	mg/kg	Lead	83.2	10.0
RW4-1	RW4-1	RW4-1-0.3	STLC	283887	soil	8/10/2001	Associated	mg/L	Lead	2.40	0.2
RW4-1	RW4-1	RW4-1-0.6	TTL	283888	soil	8/7/2001	Associated	mg/kg	Lead	46.4	10.0
RW4-1	RW4-1	RW4-1-0.6	pH	283888	soil	8/6/2001	Associated	NA	pH	8.37	NA
RW4-1	RW4-1	RW4-1-0.9	TTL	283889	soil	8/7/2001	Associated	mg/kg	Lead	27.5	10.0
RW4-1	RW4-1	RW4-1-DUP (0.9)	TTL	283890	soil	8/7/2001	Associated	mg/kg	Lead	29.2	10.0
RW4-2	RW4-2	RW4-2-0.0	TTL	283891	soil	8/7/2001	Associated	mg/kg	Lead	332	10.0
RW4-2	RW4-2	RW4-2-0.0	STLC	283891	soil	8/10/2001	Associated	mg/L	Lead	8.91	0.2
RW4-2	RW4-2	RW4-2-0.0	DI-STLC	283891	soil	8/13/2001	Associated	mg/L	Lead	ND	0.2
RW4-2	RW4-2	RW4-2-0.3	TTL	283892	soil	8/7/2001	Associated	mg/kg	Lead	70.4	10.0
RW4-2	RW4-2	RW4-2-0.3	STLC	283892	soil	8/10/2001	Associated	mg/L	Lead	1.74	0.2
RW4-2	RW4-2	RW4-2-0.3	pH	283892	soil	8/6/2001	Associated	NA	pH	8.23	NA
RW4-2	RW4-2	RW4-2-0.6	TTL	283893	soil	8/7/2001	Associated	mg/kg	Lead	51.0	10.0
RW4-2	RW4-2	RW4-2-0.6	STLC	283893	soil	8/10/2001	Associated	mg/L	Lead	2.23	0.2
RW4-2	RW4-2	RW4-2-0.9	TTL	283894	soil	8/7/2001	Associated	mg/kg	Lead	191	10.0
RW4-2	RW4-2	RW4-2-0.9	STLC	283894	soil	8/10/2001	Associated	mg/L	Lead	5.85	0.2
RW4-2	RW4-2	RW4-2-0.9	DI-STLC	283894	soil	8/13/2001	Associated	mg/L	Lead	ND	0.2
RW4-2	RW4-2	RW4-2-0.9	pH	283894	soil	8/6/2001	Associated	NA	pH	7.84	NA
RW5-1	RW5-1	RW5-1-0.0	TTL	283895	soil	8/7/2001	Associated	mg/kg	Lead	3,120	10.0
RW5-1	RW5-1	RW5-1-DUP (0.0)	TTL	283899	soil	8/7/2001	Associated	mg/kg	Lead	2,750	10.0
RW5-1	RW5-1	RW5-1-0.0	pH	283895	soil	8/6/2001	Associated	NA	pH	5.41	NA

TABLE 2

ANALYTICAL RESULTS

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Site ID	Contractor Borehole ID	Sample ID	Analysis Type	Lab Analysis ID	Matrix	Analysis Date	Lab Name	Result Units	Analyte	Value	Method Detection Limit
RW5-1	RW5-1	RW5-1-0.3	TTLC	283896	soil	8/7/2001	Associated	mg/kg	Lead	399	10.0
RW5-1	RW5-1	RW5-1-0.3	STLC	283896	soil	8/10/2001	Associated	mg/L	Lead	8.30	0.2
RW5-1	RW5-1	RW5-1-0.3	DI-STLC	283896	soil	8/13/2001	Associated	mg/L	Lead	0.25	0.2
RW5-1	RW5-1	RW5-1-0.6	TTLC	283897	soil	8/7/2001	Associated	mg/kg	Lead	73.3	10.0
RW5-1	RW5-1	RW5-1-0.6	STLC	283897	soil	8/10/2001	Associated	mg/L	Lead	0.89	0.2
RW5-1	RW5-1	RW5-1-0.6	pH	283897	soil	8/6/2001	Associated	NA	pH	6.06	NA
RW5-1	RW5-1	RW5-1-0.9	TTLC	283898	soil	8/7/2001	Associated	mg/kg	Lead	91.5	10.0
RW5-1	RW5-1	RW5-1-0.9	STLC	283898	soil	8/10/2001	Associated	mg/L	Lead	3.17	0.2
RW5-2	RW5-2	RW5-2-0.0	TTLC	283900	soil	8/7/2001	Associated	mg/kg	Lead	1,990	10.0
RW5-2	RW5-2	RW5-2-0.3	TTLC	283901	soil	8/7/2001	Associated	mg/kg	Lead	459	10.0
RW5-2	RW5-2	RW5-2-0.3	STLC	283901	soil	8/10/2001	Associated	mg/L	Lead	6.40	0.2
RW5-2	RW5-2	RW5-2-0.3	DI-STLC	283901	soil	8/13/2001	Associated	mg/L	Lead	ND	0.2
RW5-2	RW5-2	RW5-2-0.3	pH	283901	soil	8/6/2001	Associated	NA	pH	7.92	NA
RW5-2	RW5-2	RW5-2-0.6	TTLC	283902	soil	8/7/2001	Associated	mg/kg	Lead	50.3	10.0
RW5-2	RW5-2	RW5-2-0.6	STLC	283902	soil	8/10/2001	Associated	mg/L	Lead	1.02	0.2
RW5-2	RW5-2	RW5-2-0.9	TTLC	283903	soil	8/7/2001	Associated	mg/kg	Lead	ND	10.0
RW5-2	RW5-2	RW5-2-0.9	pH	283903	soil	8/6/2001	Associated	NA	pH	7.91	NA
RW6-1	RW6-1	RW6-1-0.0	TTLC	283444	soil	8/7/2001	Associated	mg/kg	Lead	104	10.0
RW6-1	RW6-1	RW6-1-0.0	STLC	283444	soil	8/10/2001	Associated	mg/L	Lead	3.83	0.2
RW6-1	RW6-1	RW6-1-0.0	pH	283444	soil	8/6/2001	Associated	NA	pH	7.88	NA
RW6-1	RW6-1	RW6-1-0.3	TTLC	283445	soil	8/7/2001	Associated	mg/kg	Lead	43.3	10.0
RW6-1	RW6-1	RW6-1-DUP (0.3)	TTLC	283448	soil	8/7/2001	Associated	mg/kg	Lead	42.8	10.0
RW6-1	RW6-1	RW6-1-0.6	TTLC	283446	soil	8/7/2001	Associated	mg/kg	Lead	10.8	10.0
RW6-1	RW6-1	RW6-1-0.9	TTLC	283447	soil	8/7/2001	Associated	mg/kg	Lead	18.8	10.0
RW6-1	RW6-1	RW6-1-0.9	pH	283447	soil	8/6/2001	Associated	NA	pH	8.60	NA
RW6-2	RW6-2	RW6-2-0.0	TTLC	283440	soil	8/7/2001	Associated	mg/kg	Lead	65.7	10.0
RW6-2	RW6-2	RW6-2-0.0	STLC	283440	soil	8/10/2001	Associated	mg/L	Lead	1.13	0.2
RW6-2	RW6-2	RW6-2-0.3	TTLC	283441	soil	8/7/2001	Associated	mg/kg	Lead	39.4	10.0
RW6-2	RW6-2	RW6-2-0.6	TTLC	283442	soil	8/7/2001	Associated	mg/kg	Lead	45.0	10.0
RW6-2	RW6-2	RW6-2-0.6	pH	283442	soil	8/6/2001	Associated	NA	pH	7.96	NA
RW6-2	RW6-2	RW6-2-0.9	TTLC	283443	soil	8/7/2001	Associated	mg/kg	Lead	11.8	10.0
RW6-3	RW6-3	RW6-3-0.0	TTLC	283436	soil	8/7/2001	Associated	mg/kg	Lead	3,140	10.0
RW6-3	RW6-3	RW6-3-0.0	TCLP	283444	soil	8/22/2001	Associated	mg/L	Lead	0.38	0.1
RW6-3	RW6-3	RW6-3-0.3	TTLC	283437	soil	8/7/2001	Associated	mg/kg	Lead	49.6	10.0
RW6-3	RW6-3	RW6-3-0.3	pH	283437	soil	8/6/2001	Associated	NA	pH	7.69	NA
RW6-3	RW6-3	RW6-3-0.6	TTLC	283438	soil	8/7/2001	Associated	mg/kg	Lead	11.3	10.0
RW6-3	RW6-3	RW6-3-0.9	TTLC	283439	soil	8/7/2001	Associated	mg/kg	Lead	ND	10.0
RW7-1	RW7-1	RW7-1-0.0	TTLC	283423	soil	8/7/2001	Associated	mg/kg	Lead	1,510	10.0
RW7-1	RW7-1	RW7-1-0.0	TCLP	283423	soil	8/22/2001	Associated	mg/L	Lead	0.43	0.1
RW7-1	RW7-1	RW7-1-0.0	pH	283423	soil	8/6/2001	Associated	NA	pH	7.10	NA
RW7-1	RW7-1	RW7-1-0.3	TTLC	283424	soil	8/7/2001	Associated	mg/kg	Lead	21.5	10.0

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Site ID	Contractor Borehole ID	Sample ID	Analysis Type	Lab Analysis ID	Matrix	Analysis Date	Lab Name	Result Units	Analyte	Value	Method Detection Limit
RW7-1	RW7-1	RW7-1-0.6	TTL	283425	soil	8/7/2001	Associated	mg/kg	Lead	ND	10.0
RW7-1	RW7-1	RW7-1-DUP (0.6)	TTL	283427	soil	8/7/2001	Associated	mg/kg	Lead	ND	10.0
RW7-1	RW7-1	RW7-1-0.6	pH	283425	soil	8/6/2001	Associated	NA	pH	8.02	NA
RW7-1	RW7-1	RW7-1-0.9	TTL	283426	soil	8/7/2001	Associated	mg/kg	Lead	11.4	10.0
RW7-2	RW7-2	RW7-2-0.0	TTL	283419	soil	8/7/2001	Associated	mg/kg	Antimony	ND	3.0
RW7-2	RW7-2	RW7-2-0.0	TTL	283419	soil	8/7/2001	Associated	mg/kg	Arsenic	7.54	0.5
RW7-2	RW7-2	RW7-2-0.0	TTL	283419	soil	8/7/2001	Associated	mg/kg	Barium	229	1.0
RW7-2	RW7-2	RW7-2-0.0	TTL	283419	soil	8/7/2001	Associated	mg/kg	Beryllium	ND	0.5
RW7-2	RW7-2	RW7-2-0.0	TTL	283419	soil	8/7/2001	Associated	mg/kg	Cadmium	2.70	0.5
RW7-2	RW7-2	RW7-2-0.0	TTL	283419	soil	8/7/2001	Associated	mg/kg	Chromium	35.0	1.0
RW7-2	RW7-2	RW7-2-0.0	TTL	283419	soil	8/7/2001	Associated	mg/kg	Cobalt	13.3	0.5
RW7-2	RW7-2	RW7-2-0.0	TTL	283419	soil	8/7/2001	Associated	mg/kg	Copper	103	1.0
RW7-2	RW7-2	RW7-2-0.0	TTL	283419	soil	8/7/2001	Associated	mg/kg	Lead	1,100	0.5
RW7-2	RW7-2	RW7-2-0.0	TTL	283419	soil	8/7/2001	Associated	mg/kg	Mercury	ND	0.1
RW7-2	RW7-2	RW7-2-0.0	TTL	283419	soil	8/7/2001	Associated	mg/kg	Molybdenum	ND	1.0
RW7-2	RW7-2	RW7-2-0.0	TTL	283419	soil	8/7/2001	Associated	mg/kg	Nickel	30.5	1.5
RW7-2	RW7-2	RW7-2-0.0	TTL	283419	soil	8/7/2001	Associated	mg/kg	Selenium	ND	0.5
RW7-2	RW7-2	RW7-2-0.0	TTL	283419	soil	8/7/2001	Associated	mg/kg	Silver	ND	0.5
RW7-2	RW7-2	RW7-2-0.0	TTL	283419	soil	8/7/2001	Associated	mg/kg	Thallium	ND	1.0
RW7-2	RW7-2	RW7-2-0.0	TTL	283419	soil	8/7/2001	Associated	mg/kg	Vanadium	38.8	0.5
RW7-2	RW7-2	RW7-2-0.0	TTL	283419	soil	8/7/2001	Associated	mg/kg	Zinc	610	5.0
RW7-2	RW7-2	RW7-2-0.0	STLC	283419	soil	8/20/2001	Associated	mg/L	Lead	99.3	2.0
RW7-2	RW7-2	RW7-2-0.0	TCLP	283419	soil	8/22/2001	Associated	mg/L	Lead	0.45	0.1
RW7-2	RW7-2	RW7-2-0.3	TTL	283420	soil	8/7/2001	Associated	mg/kg	Lead	89.8	5.0
RW7-2	RW7-2	RW7-2-0.3	STLC	283424	soil	8/10/2001	Associated	mg/L	Lead	3.49	0.2
RW7-2	RW7-2	RW7-2-0.3	pH	283424	soil	8/6/2001	Associated	NA	pH	8.09	NA
RW7-2	RW7-2	RW7-2-0.6	TTL	283421	soil	8/7/2001	Associated	mg/kg	Lead	ND	5.0
RW7-2	RW7-2	RW7-2-0.9	TTL	283422	soil	8/7/2001	Associated	mg/kg	Lead	26.8	5.0
RW7-2	RW7-2	RW7-2-0.9	pH	283422	soil	8/6/2001	Associated	NA	pH	8.08	NA
RW8-1	RW8-1	RW8-1-0.0	TTL	283403	soil	8/7/2001	Associated	mg/kg	Lead	930	10.0
RW8-1	RW8-1	RW8-1-0.0	STLC	283403	soil	8/10/2001	Associated	mg/L	Lead	18.2	0.2
RW8-1	RW8-1	RW8-1-0.0	DI-STLC	283403	soil	8/13/2001	Associated	mg/L	Lead	0.34	0.2
RW8-1	RW8-1	RW8-1-0.0	pH	283403	soil	8/6/2001	Associated	NA	pH	6.74	NA
RW8-1	RW8-1	RW8-1-0.3	TTL	283404	soil	8/7/2001	Associated	mg/kg	Lead	51.6	10.0
RW8-1	RW8-1	RW8-1-0.3	STLC	283404	soil	8/10/2001	Associated	mg/L	Lead	1.23	0.2
RW8-1	RW8-1	RW8-1-0.6	TTL	283405	soil	8/7/2001	Associated	mg/kg	Lead	30.3	0.2
RW8-1	RW8-1	RW8-1-0.6	pH	283405	soil	8/6/2001	Associated	NA	pH	7.74	NA
RW8-1	RW8-1	RW8-1-0.9	TTL	283406	soil	8/7/2001	Associated	mg/kg	Lead	25.5	0.2
RW8-1	RW8-1	RW8-1-DUP (0.9)	TTL	283407	soil	8/7/2001	Associated	mg/kg	Lead	22.4	10.0
RW8-2	RW8-2	RW8-2-0.0	TTL	283399	soil	8/7/2001	Associated	mg/kg	Lead	1,000	10.0
RW8-2	RW8-2	RW8-2-0.0	TCLP	283399	soil	8/22/2001	Associated	mg/L	Lead	0.53	0.1

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Site ID	Contractor Borehole ID	Sample ID	Analysis Type	Lab Analysis ID	Matrix	Analysis Date	Lab Name	Result Units	Analyte	Value	Method Detection Limit
RW8-2	RW8-2	RW8-2-0.3	TTL	283404	soil	8/7/2001	Associated	mg/kg	Lead	1.340	10.0
RW8-2	RW8-2	RW8-2-0.3	TCLP	283404	soil	8/22/2001	Associated	mg/L	Lead	0.86	0.1
RW8-2	RW8-2	RW8-2-0.3	pH	283404	soil	8/6/2001	Associated	NA	pH	7.63	NA
RW8-2	RW8-2	RW8-2-0.6	TTL	283401	soil	8/7/2001	Associated	mg/kg	Lead	173	0.2
RW8-2	RW8-2	RW8-2-0.6	STLC	283401	soil	8/10/2001	Associated	mg/L	Lead	4.75	0.2
RW8-2	RW8-2	RW8-2-0.9	TTL	283402	soil	8/7/2001	Associated	mg/kg	Lead	80.4	10.0
RW8-2	RW8-2	RW8-2-0.9	STLC	283402	soil	8/10/2001	Associated	mg/L	Lead	1.22	0.2
RW8-2	RW8-2	RW8-2-0.9	pH	283402	soil	8/6/2001	Associated	NA	pH	7.99	NA
RW10-1	RW10-1	RW10-1-0.0	TTL	283372	soil	8/7/2001	Associated	mg/kg	Lead	493	10.0
RW10-1	RW10-1	RW10-1-0.0	STLC	283372	soil	8/10/2001	Associated	mg/L	Lead	15.7	0.2
RW10-1	RW10-1	RW10-1-0.0	DI-STLC	283372	soil	8/13/2001	Associated	mg/L	Lead	ND	0.2
RW10-1	RW10-1	RW10-1-0.0	pH	283372	soil	8/6/2001	Associated	NA	pH	7.42	NA
RW10-1	RW10-1	RW10-1-0.3	TTL	283373	soil	8/7/2001	Associated	mg/kg	Lead	131	10.0
RW10-1	RW10-1	RW10-1-0.3	STLC	283373	soil	8/10/2001	Associated	mg/L	Lead	5.23	0.2
RW10-1	RW10-1	RW10-1-0.3	DI-STLC	283373	soil	8/13/2001	Associated	mg/L	Lead	ND	0.2
RW10-1	RW10-1	RW10-1-0.6	TTL	283374	soil	8/7/2001	Associated	mg/kg	Lead	21.5	10.0
RW10-1	RW10-1	RW10-1-DUP (0.6)	TTL	283376	soil	8/7/2001	Associated	mg/kg	Lead	30.1	10.0
RW10-1	RW10-1	RW10-1-0.6	pH	283374	soil	8/6/2001	Associated	NA	pH	8.00	NA
RW10-1	RW10-1	RW10-1-0.9	TTL	283375	soil	8/7/2001	Associated	mg/kg	Lead	ND	10.0
RW10-2	RW10-2	RW10-2-0.0	TTL	283368	soil	8/7/2001	Associated	mg/kg	Lead	928	10.0
RW10-2	RW10-2	RW10-2-0.0	STLC	283368	soil	8/10/2001	Associated	mg/L	Lead	28.8	0.2
RW10-2	RW10-2	RW10-2-0.0	DI-STLC	283368	soil	8/13/2001	Associated	mg/L	Lead	ND	0.2
RW10-2	RW10-2	RW10-2-0.3	TTL	283369	soil	8/7/2001	Associated	mg/kg	Lead	319	10.0
RW10-2	RW10-2	RW10-2-0.3	STLC	283369	soil	8/10/2001	Associated	mg/L	Lead	17.0	0.2
RW10-2	RW10-2	RW10-2-0.3	DI-STLC	283369	soil	8/13/2001	Associated	mg/L	Lead	0.24	0.2
RW10-2	RW10-2	RW10-2-0.3	pH	283369	soil	8/6/2001	Associated	NA	pH	7.47	NA
RW10-2	RW10-2	RW10-2-0.6	TTL	283370	soil	8/7/2001	Associated	mg/kg	Lead	16.3	10.0
RW10-2	RW10-2	RW10-2-0.9	TTL	283371	soil	8/7/2001	Associated	mg/kg	Lead	46.2	10.0
RW10-2	RW10-2	RW10-2-0.9	pH	283371	soil	8/6/2001	Associated	NA	pH	7.22	NA
SW348-1	SW348-1	SW348-1-0.0	TTL	283838	soil	8/7/2001	Associated	mg/kg	Lead	30.9	10.0
SW348-1	SW348-1	SW348-1-0.0	pH	283838	soil	8/6/2001	Associated	NA	pH	8.66	NA
SW348-1	SW348-1	SW348-1-0.3	TTL	283839	soil	8/7/2001	Associated	mg/kg	Lead	31.3	10.0
SW348-1	SW348-1	SW348-1-0.6	TTL	283840	soil	8/7/2001	Associated	mg/kg	Lead	29.7	10.0
SW348-1	SW348-1	SW348-1-DUP (0.6)	TTL	283843	soil	8/7/2001	Associated	mg/kg	Lead	120	10.0
SW348-1	SW348-1	SW348-1-DUP (0.6)	STLC	283843	soil	8/10/2001	Associated	mg/L	Lead	0.63	0.2
SW348-1	SW348-1	SW348-1-0.6	pH	283840	soil	8/6/2001	Associated	NA	pH	8.55	NA
SW348-1	SW348-1	SW348-1-0.9	TTL	283841	soil	8/7/2001	Associated	mg/kg	Lead	29.2	10.0
SW348-1	SW348-1	SW348-1-1.5	TTL	283842	soil	8/7/2001	Associated	mg/kg	Lead	45.0	10.0
SW348-2	SW348-2	SW348-2-0.0	TTL	283449	soil	8/7/2001	Associated	mg/kg	Lead	34.5	10.0
SW348-2	SW348-2	SW348-2-0.3	TTL	283450	soil	8/7/2001	Associated	mg/kg	Lead	35.7	10.0
SW348-2	SW348-2	SW348-2-0.3	pH	283450	soil	8/6/2001	Associated	NA	pH	8.07	NA

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SW348-2	SW348-2	SW348-2-0.6	TTL	283451	soil	8/7/2001	Associated	mg/kg	Lead	15.7	10.0
SW348-2	SW348-2	SW348-2-0.9	TTL	283452	soil	8/7/2001	Associated	mg/kg	Lead	ND	10.0
SW348-2	SW348-2	SW348-2-0.9	pH	283452	soil	8/6/2001	Associated	NA	pH	8.56	NA
SW348-2	SW348-2	SW348-2-1.5	TTL	283453	soil	8/7/2001	Associated	mg/kg	Lead	12.2	10.0
SW352-1	SW352-1	SW352-1-0.0	TTL	283454	soil	8/7/2001	Associated	mg/kg	Antimony	ND	3.0
SW352-1	SW352-1	SW352-1-0.0	TTL	283454	soil	8/7/2001	Associated	mg/kg	Arsenic	9.76	0.5
SW352-1	SW352-1	SW352-1-0.0	TTL	283454	soil	8/7/2001	Associated	mg/kg	Barium	178	1.0
SW352-1	SW352-1	SW352-1-0.0	TTL	283454	soil	8/7/2001	Associated	mg/kg	Beryllium	ND	0.5
SW352-1	SW352-1	SW352-1-0.0	TTL	283454	soil	8/7/2001	Associated	mg/kg	Cadmium	ND	0.5
SW352-1	SW352-1	SW352-1-0.0	TTL	283454	soil	8/7/2001	Associated	mg/kg	Chromium	40.1	1.0
SW352-1	SW352-1	SW352-1-0.0	TTL	283454	soil	8/7/2001	Associated	mg/kg	Cobalt	16.4	0.5
SW352-1	SW352-1	SW352-1-0.0	TTL	283454	soil	8/7/2001	Associated	mg/kg	Copper	51.5	1.0
SW352-1	SW352-1	SW352-1-0.0	TTL	283454	soil	8/7/2001	Associated	mg/kg	Lead	38.5	0.5
SW352-1	SW352-1	SW352-1-0.0	TTL	283454	soil	8/7/2001	Associated	mg/kg	Mercury	ND	0.1
SW352-1	SW352-1	SW352-1-0.0	TTL	283454	soil	8/7/2001	Associated	mg/kg	Molybdenum	ND	1.0
SW352-1	SW352-1	SW352-1-0.0	TTL	283454	soil	8/7/2001	Associated	mg/kg	Nickel	33.8	1.5
SW352-1	SW352-1	SW352-1-0.0	TTL	283454	soil	8/7/2001	Associated	mg/kg	Selenium	ND	0.5
SW352-1	SW352-1	SW352-1-0.0	TTL	283454	soil	8/7/2001	Associated	mg/kg	Silver	ND	0.5
SW352-1	SW352-1	SW352-1-0.0	TTL	283454	soil	8/7/2001	Associated	mg/kg	Thallium	ND	1.0
SW352-1	SW352-1	SW352-1-0.0	TTL	283454	soil	8/7/2001	Associated	mg/kg	Vanadium	70.0	0.5
SW352-1	SW352-1	SW352-1-0.0	TTL	283454	soil	8/7/2001	Associated	mg/kg	Zinc	152	5.0
SW352-1	SW352-1	SW352-1-0.0	pH	283454	soil	8/6/2001	Associated	NA	pH	7.83	NA
SW352-1	SW352-1	SW352-1-0.3	TTL	283455	soil	8/7/2001	Associated	mg/kg	Lead	26.8	10.0
SW352-1	SW352-1	SW352-1-DUP (0.3)	TTL	283458	soil	8/7/2001	Associated	mg/kg	Lead	39.4	10.0
SW352-1	SW352-1	SW352-1-0.3	pH	283455	soil	8/6/2001	Associated	NA	pH	8.17	NA
SW352-1	SW352-1	SW352-1-0.6	TTL	283456	soil	8/7/2001	Associated	mg/kg	Lead	50.4	10.0
SW352-1	SW352-1	SW352-1-0.6	STL	283456	soil	8/10/2001	Associated	mg/L	Lead	0.79	0.2
SW352-1	SW352-1	SW352-1-0.6	pH	283456	soil	8/6/2001	Associated	NA	pH	8.31	NA
SW352-1	SW352-1	SW352-1-0.9	TTL	283457	soil	8/7/2001	Associated	mg/kg	Lead	32.9	10.0
SW352-2	SW352-2	SW352-2-0.0	TTL	283844	soil	8/7/2001	Associated	mg/kg	Lead	33.2	10.0
SW352-2	SW352-2	SW352-2-0.3	TTL	283845	soil	8/7/2001	Associated	mg/kg	Lead	16.7	10.0
SW352-2	SW352-2	SW352-2-0.3	pH	283845	soil	8/6/2001	Associated	NA	pH	8.17	NA
SW352-2	SW352-2	SW352-2-0.6	TTL	283846	soil	8/7/2001	Associated	mg/kg	Lead	68.8	10.0
SW352-2	SW352-2	SW352-2-0.6	STL	283846	soil	8/10/2001	Associated	mg/L	Lead	1.52	0.2
SW352-2	SW352-2	SW352-2-0.9	TTL	283847	soil	8/7/2001	Associated	mg/kg	Lead	86.9	10.0
SW352-2	SW352-2	SW352-2-0.9	STL	283847	soil	8/10/2001	Associated	mg/L	Lead	2.15	0.2
SW352-2	SW352-2	SW352-2-0.9	pH	283847	soil	8/6/2001	Associated	NA	pH	8.55	NA
SW352-2	SW352-2	SW352-2-1.5	TTL	283848	soil	8/7/2001	Associated	mg/kg	Lead	386	10.0
SW352-2	SW352-2	SW352-2-1.5	STL	283848	soil	8/10/2001	Associated	mg/L	Lead	16.1	0.2
SW352-2	SW352-2	SW352-2-1.5	DI-STL	283848	soil	8/13/2001	Associated	mg/L	Lead	0.38	0.2
SW366-1	SW366-1	SW366-1-0.0	TTL	283849	soil	8/7/2001	Associated	mg/kg	Lead	325	10.0

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SW366-1	SW366-1	SW366-1-0.0	STLC	283849	soil	8/10/2001	Associated	mg/L	Lead	7.45	0.2
SW366-1	SW366-1	SW366-1-0.0	DI-STLC	283849	soil	8/13/2001	Associated	mg/L	Lead	ND	0.2
SW366-1	SW366-1	SW366-1-0.0	pH	283849	soil	8/6/2001	Associated	NA	pH	6.65	NA
SW366-1	SW366-1	SW366-1-0.3	TTL	283850	soil	8/7/2001	Associated	mg/kg	Lead	109	10.0
SW366-1	SW366-1	SW366-1-0.3	STLC	283850	soil	8/10/2001	Associated	mg/L	Lead	1.61	0.2
SW366-1	SW366-1	SW366-1-0.6	TTL	283851	soil	8/7/2001	Associated	mg/kg	Lead	14.6	10.0
SW366-1	SW366-1	SW366-1-0.6	pH	283851	soil	8/6/2001	Associated	NA	pH	7.51	NA
SW366-1	SW366-1	SW366-1-0.9	TTL	283852	soil	8/7/2001	Associated	mg/kg	Lead	18.1	10.0
SW366-1	SW366-1	SW366-1-DUP (0.9)	TTL	283854	soil	8/7/2001	Associated	mg/kg	Lead	21.0	10.0
SW366-1	SW366-1	SW366-1-1.5	TTL	283853	soil	8/7/2001	Associated	mg/kg	Lead	ND	10.0
SW366-2	SW366-2	SW366-2-0.0	TTL	283855	soil	8/7/2001	Associated	mg/kg	Lead	191	10.0
SW366-2	SW366-2	SW366-2-0.0	STLC	283855	soil	8/10/2001	Associated	mg/L	Lead	5.76	0.2
SW366-2	SW366-2	SW366-2-0.0	DI-STLC	283855	soil	8/13/2001	Associated	mg/L	Lead	ND	0.2
SW366-2	SW366-2	SW366-2-0.3	TTL	283856	soil	8/7/2001	Associated	mg/kg	Lead	ND	10.0
SW366-2	SW366-2	SW366-2-0.3	pH	283856	soil	8/6/2001	Associated	NA	pH	6.77	NA
SW366-2	SW366-2	SW366-2-0.6	TTL	283857	soil	8/7/2001	Associated	mg/kg	Lead	ND	10.0
SW366-2	SW366-2	SW366-2-0.9	TTL	283858	soil	8/7/2001	Associated	mg/kg	Lead	ND	10.0
SW366-2	SW366-2	SW366-2-0.9	pH	283858	soil	8/6/2001	Associated	NA	pH	6.25	NA
SW366-2	SW366-2	SW366-2-1.5	TTL	283859	soil	8/7/2001	Associated	mg/kg	Lead	ND	10.0
SW368-1	SW368-1	SW368-1-0.0	TTL	283860	soil	8/7/2001	Associated	mg/kg	Lead	430	10.0
SW368-1	SW368-1	SW368-1-0.0	STLC	283860	soil	8/10/2001	Associated	mg/L	Lead	22.8	0.2
SW368-1	SW368-1	SW368-1-0.0	DI-STLC	283860	soil	8/13/2001	Associated	mg/L	Lead	ND	0.2
SW368-1	SW368-1	SW368-1-0.0	pH	283860	soil	8/6/2001	Associated	NA	pH	6.09	NA
SW368-1	SW368-1	SW368-1-0.3	TTL	283861	soil	8/7/2001	Associated	mg/kg	Lead	ND	10.0
SW368-1	SW368-1	SW368-1-0.6	TTL	283862	soil	8/7/2001	Associated	mg/kg	Lead	ND	10.0
SW368-1	SW368-1	SW368-1-0.6	pH	283862	soil	8/6/2001	Associated	NA	pH	6.79	NA
SW368-1	SW368-1	SW368-1-0.9	TTL	283863	soil	8/7/2001	Associated	mg/kg	Lead	ND	10.0
SW368-2	SW368-2	SW368-2-0.0	TTL	283864	soil	8/7/2001	Associated	mg/kg	Lead	606	10.0
SW368-2	SW368-2	SW368-2-0.0	STLC	283864	soil	8/10/2001	Associated	mg/L	Lead	19.1	0.2
SW368-2	SW368-2	SW368-2-0.0	DI-STLC	283864	soil	8/13/2001	Associated	mg/L	Lead	ND	0.2
SW368-2	SW368-2	SW368-2-0.3	TTL	283865	soil	8/7/2001	Associated	mg/kg	Lead	22.6	10.0
SW368-2	SW368-2	SW368-2-0.3	pH	283865	soil	8/6/2001	Associated	NA	pH	6.74	NA
SW368-2	SW368-2	SW368-2-0.6	TTL	283866	soil	8/7/2001	Associated	mg/kg	Lead	ND	10.0
SW368-2	SW368-2	SW368-2-0.9	TTL	283867	soil	8/7/2001	Associated	mg/kg	Lead	ND	10.0
SW368-2	SW368-2	SW368-2-0.9	pH	283867	soil	8/6/2001	Associated	NA	pH	7.75	NA
SW368-2	SW368-2	SW368-2-1.5	TTL	283868	soil	8/7/2001	Associated	mg/kg	Lead	ND	10.0
SW368-2	SW368-2	SW368-2-DUP (1.5)	TTL	283869	soil	8/7/2001	Associated	mg/kg	Lead	ND	10.0
SW370-1	SW370-1	SW370-1-0.0	TTL	283870	soil	8/7/2001	Associated	mg/kg	Lead	294	10.0
SW370-1	SW370-1	SW370-1-0.0	STLC	283870	soil	8/10/2001	Associated	mg/L	Lead	9.20	0.2
SW370-1	SW370-1	SW370-1-0.0	DI-STLC	283870	soil	8/13/2001	Associated	mg/L	Lead	ND	0.2
SW370-1	SW370-1	SW370-1-0.0	pH	283870	soil	8/6/2001	Associated	NA	pH	6.67	NA

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SW370-1	SW370-1	SW370-1-0.3	TTLIC	283871	soil	8/7/2001	Associated	mg/kg	Lead	19.4	10.0
SW370-1	SW370-1	SW370-1-DUP (0.3)	TTLIC	283875	soil	8/7/2001	Associated	mg/kg	Lead	24.8	10.0
SW370-1	SW370-1	SW370-1-0.6	TTLIC	283872	soil	8/7/2001	Associated	mg/kg	Lead	ND	10.0
SW370-1	SW370-1	SW370-1-0.6	pH	283872	soil	8/6/2001	Associated	NA	pH	8.03	NA
SW370-1	SW370-1	SW370-1-0.9	TTLIC	283873	soil	8/7/2001	Associated	mg/kg	Lead	ND	10.0
SW370-1	SW370-1	SW370-1-1.5	TTLIC	283874	soil	8/7/2001	Associated	mg/kg	Lead	12.4	10.0
SW370-2	SW370-2	SW370-2-0.0	TTLIC	283876	soil	8/7/2001	Associated	mg/kg	Lead	264	10.0
SW370-2	SW370-2	SW370-2-0.0	STLC	283876	soil	8/10/2001	Associated	mg/L	Lead	9.66	0.2
SW370-2	SW370-2	SW370-2-0.0	DI-STLC	283876	soil	8/13/2001	Associated	mg/L	Lead	ND	0.2
SW370-2	SW370-2	SW370-2-0.3	TTLIC	283877	soil	8/7/2001	Associated	mg/kg	Lead	ND	10.0
SW370-2	SW370-2	SW370-2-0.3	pH	283877	soil	8/6/2001	Associated	NA	pH	6.05	NA
SW370-2	SW370-2	SW370-2-0.6	TTLIC	283878	soil	8/7/2001	Associated	mg/kg	Lead	15.0	10.0
SW370-2	SW370-2	SW370-2-0.9	TTLIC	283879	soil	8/7/2001	Associated	mg/kg	Lead	14.4	10.0
SW370-2	SW370-2	SW370-2-0.9	pH	283879	soil	8/6/2001	Associated	NA	pH	7.64	NA
SW370-2	SW370-2	SW370-2-1.5	TTLIC	283880	soil	8/7/2001	Associated	mg/kg	Lead	13.9	10.0
SW376-1	SW376-1	SW376-1-0.0	TTLIC	283782	soil	8/7/2001	Associated	mg/kg	Lead	260	10.0
SW376-1	SW376-1	SW376-1-0.0	STLC	283782	soil	8/10/2001	Associated	mg/L	Lead	8.57	0.2
SW376-1	SW376-1	SW376-1-0.0	DI-STLC	283782	soil	8/13/2001	Associated	mg/L	Lead	ND	0.2
SW376-1	SW376-1	SW376-1-0.0	pH	283782	soil	8/6/2001	Associated	NA	pH	6.14	NA
SW376-1	SW376-1	SW376-1-0.3	TTLIC	283783	soil	8/7/2001	Associated	mg/kg	Lead	18.4	10.0
SW376-1	SW376-1	SW376-1-DUP (0.3)	TTLIC	283787	soil	8/7/2001	Associated	mg/kg	Lead	30.0	10.0
SW376-1	SW376-1	SW376-1-0.6	TTLIC	283784	soil	8/7/2001	Associated	mg/kg	Lead	ND	10.0
SW376-1	SW376-1	SW376-1-0.6	pH	283784	soil	8/6/2001	Associated	NA	pH	6.03	NA
SW376-1	SW376-1	SW376-1-0.9	TTLIC	283785	soil	8/7/2001	Associated	mg/kg	Lead	14.5	10.0
SW376-1	SW376-1	SW376-1-1.5	TTLIC	283786	soil	8/7/2001	Associated	mg/kg	Lead	ND	10.0
SW376-2	SW376-2	SW376-2-0.0	TTLIC	283788	soil	8/7/2001	Associated	mg/kg	Lead	271	10.0
SW376-2	SW376-2	SW376-2-0.0	STLC	283788	soil	8/10/2001	Associated	mg/L	Lead	10.0	0.2
SW376-2	SW376-2	SW376-2-0.0	DI-STLC	283788	soil	8/13/2001	Associated	mg/L	Lead	ND	0.2
SW376-2	SW376-2	SW376-2-0.3	TTLIC	283789	soil	8/7/2001	Associated	mg/kg	Lead	14.3	10.0
SW376-2	SW376-2	SW376-2-0.3	pH	283789	soil	8/6/2001	Associated	NA	pH	6.81	NA
SW376-2	SW376-2	SW376-2-0.6	TTLIC	283790	soil	8/7/2001	Associated	mg/kg	Lead	10.4	10.0
SW376-2	SW376-2	SW376-2-0.9	TTLIC	283791	soil	8/7/2001	Associated	mg/kg	Lead	ND	10.0
SW376-2	SW376-2	SW376-2-0.9	pH	283791	soil	8/6/2001	Associated	NA	pH	7.61	NA
SW376-2	SW376-2	SW376-2-1.5	TTLIC	283792	soil	8/7/2001	Associated	mg/kg	Lead	ND	10.0
SW381-1	SW381-1	SW381-1-0.0	TTLIC	283433	soil	8/7/2001	Associated	mg/kg	Lead	144	10.0
SW381-1	SW381-1	SW381-1-0.0	STLC	283433	soil	8/10/2001	Associated	mg/L	Lead	4.53	0.2
SW381-1	SW381-1	SW381-1-0.0	pH	283433	soil	8/6/2001	Associated	NA	pH	7.77	NA
SW381-1	SW381-1	SW381-1-0.3	TTLIC	283434	soil	8/7/2001	Associated	mg/kg	Lead	50.4	10.0
SW381-1	SW381-1	SW381-1-0.3	STLC	283434	soil	8/10/2001	Associated	mg/L	Lead	0.96	0.2
SW381-2	SW381-2	SW381-2-0.0	TTLIC	283428	soil	8/7/2001	Associated	mg/kg	Lead	39.3	10.0
SW381-2	SW381-2	SW381-2-0.3	TTLIC	283429	soil	8/7/2001	Associated	mg/kg	Lead	11.6	10.0

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Site ID	Contractor Borehole ID	Sample ID	Analysis Type	Lab Analysis ID	Matrix	Analysis Date	Lab Name	Result Units	Analyte	Value	Method Detection Limit
SW381-2	SW381-2	SW381-2-0.3	pH	283429	soil	8/6/2001	Associated	NA	pH	7.49	NA
SW381-2	SW381-2	SW381-2-0.6	TTL	283430	soil	8/7/2001	Associated	mg/kg	Lead	10.3	10.0
SW381-2	SW381-2	SW381-2-0.9	TTL	283431	soil	8/7/2001	Associated	mg/kg	Lead	10.7	10.0
SW381-2	SW381-2	SW381-2-1.5	TTL	283432	soil	8/7/2001	Associated	mg/kg	Lead	ND	10.0
SW381-2	SW381-2	SW381-2-1.5	pH	283432	soil	8/6/2001	Associated	NA	pH	8.34	NA
SW384-1	SW384-1	SW384-1-0.0	TTL	283798	soil	8/7/2001	Associated	mg/kg	Lead	234	10.0
SW384-1	SW384-1	SW384-1-0.0	STL	283798	soil	8/10/2001	Associated	mg/L	Lead	9.19	0.2
SW384-1	SW384-1	SW384-1-0.0	DI-STLC	283798	soil	8/13/2001	Associated	mg/L	Lead	ND	0.2
SW384-1	SW384-1	SW384-1-0.0	pH	283798	soil	8/6/2001	Associated	NA	pH	6.07	NA
SW384-1	SW384-1	SW384-1-0.3	TTL	283799	soil	8/7/2001	Associated	mg/kg	Lead	10.9	10.0
SW384-1	SW384-1	SW384-1-0.6	TTL	283800	soil	8/7/2001	Associated	mg/kg	Lead	56.1	10.0
SW384-1	SW384-1	SW384-1-0.6	STL	283800	soil	8/10/2001	Associated	mg/L	Lead	2.07	0.2
SW384-1	SW384-1	SW384-1-DUP (0.6)	TTL	283803	soil	8/7/2001	Associated	mg/kg	Lead	39.6	10.0
SW384-1	SW384-1	SW384-1-0.9	TTL	283801	soil	8/7/2001	Associated	mg/kg	Lead	ND	10.0
SW384-1	SW384-1	SW384-1-1.5	TTL	283802	soil	8/7/2001	Associated	mg/kg	Lead	21.3	10.0
SW384-2	SW384-2	SW384-2-0.0	TTL	283804	soil	8/7/2001	Associated	mg/kg	Lead	665	10.0
SW384-2	SW384-2	SW384-2-0.0	STL	283804	soil	8/10/2001	Associated	mg/L	Lead	17.1	0.2
SW384-2	SW384-2	SW384-2-0.0	DI-STLC	283804	soil	8/13/2001	Associated	mg/L	Lead	ND	0.2
SW384-2	SW384-2	SW384-2-0.3	TTL	283805	soil	8/7/2001	Associated	mg/kg	Lead	42.0	10.0
SW384-2	SW384-2	SW384-2-0.3	pH	283805	soil	8/6/2001	Associated	NA	pH	7.95	NA
SW384-2	SW384-2	SW384-2-0.6	TTL	283806	soil	8/7/2001	Associated	mg/kg	Lead	14.7	10.0
SW384-2	SW384-2	SW384-2-0.9	TTL	283807	soil	8/7/2001	Associated	mg/kg	Lead	ND	10.0
SW384-2	SW384-2	SW384-2-1.5	TTL	283808	soil	8/7/2001	Associated	mg/kg	Lead	189	10.0
SW384-2	SW384-2	SW384-2-1.5	STL	283808	soil	8/10/2001	Associated	mg/L	Lead	0.69	0.2
SW384-3	SW384-3	SW384-3-0.0	TTL	283809	soil	8/7/2001	Associated	mg/kg	Lead	2,040	10.0
SW384-3	SW384-3	SW384-3-0.0	TCLP	283809	soil	8/22/2001	Associated	mg/L	Lead	0.354	0.1
SW384-3	SW384-3	SW384-3-0.3	TTL	283810	soil	8/7/2001	Associated	mg/kg	Lead	11.4	10.0
SW384-3	SW384-3	SW384-3-0.6	TTL	283811	soil	8/7/2001	Associated	mg/kg	Lead	13.8	10.0
SW384-3	SW384-3	SW384-3-0.9	TTL	283812	soil	8/7/2001	Associated	mg/kg	Lead	20.5	10.0
SW384-3	SW384-3	SW384-3-0.9	pH	283812	soil	8/6/2001	Associated	NA	pH	7.92	NA
SW384-3	SW384-3	SW384-3-1.5	TTL	283813	soil	8/7/2001	Associated	mg/kg	Lead	16.4	10.0
SW384-4	SW384-4	SW384-4-0.0	TTL	283814	soil	8/7/2001	Associated	mg/kg	Lead	3,030	10.0
SW384-4	SW384-4	SW384-4-0.0	TCLP	283814	soil	8/22/2001	Associated	mg/L	Lead	0.259	0.1
SW384-4	SW384-4	SW384-4-0.3	TTL	283815	soil	8/7/2001	Associated	mg/kg	Lead	18.3	10.0
SW384-4	SW384-4	SW384-4-0.6	TTL	283816	soil	8/7/2001	Associated	mg/kg	Lead	44.6	10.0
SW384-4	SW384-4	SW384-4-0.9	TTL	283817	soil	8/7/2001	Associated	mg/kg	Lead	32.6	10.0
SW384-4	SW384-4	SW384-4-1.5	TTL	283818	soil	8/7/2001	Associated	mg/kg	Lead	14.5	10.0
SW384-5	SW384-5	SW384-5-0.0	TTL	283819	soil	8/7/2001	Associated	mg/kg	Lead	682	10.0
SW384-5	SW384-5	SW384-5-0.0	STL	283819	soil	8/10/2001	Associated	mg/L	Lead	16.2	0.2
SW384-5	SW384-5	SW384-5-0.0	DI-STLC	283819	soil	8/13/2001	Associated	mg/L	Lead	ND	0.2
SW384-5	SW384-5	SW384-5-0.3	TTL	283820	soil	8/7/2001	Associated	mg/kg	Lead	19.9	10.0

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Site ID	Contractor Borehole ID	Sample ID	Analysis Type	Lab Analysis ID	Matrix	Analysis Date	Lab Name	Result Units	Analyte	Value	Method Detection Limit
SW384-5	SW384-5	SW384-5-0.6	TTL	283821	soil	8/7/2001	Associated	mg/kg	Lead	11.0	10.0
SW384-5	SW384-5	SW384-5-0.9	TTL	283822	soil	8/7/2001	Associated	mg/kg	Lead	29.8	10.0
SW384-5	SW384-5	SW384-5-1.5	TTL	283823	soil	8/7/2001	Associated	mg/kg	Lead	76.8	10.0
SW384-5	SW384-5	SW384-5-1.5	STL	283823	soil	8/10/2001	Associated	mg/L	Lead	0.32	0.2
SW384-5	SW384-5	SW384-5-1.5	pH	283823	soil	8/6/2001	Associated	NA	pH	8.09	NA
SW384-6	SW384-6	SW384-6-0.0	TTL	283881	soil	8/7/2001	Associated	mg/kg	Lead	864	10.0
SW384-6	SW384-6	SW384-6-0.0	STL	283881	soil	8/10/2001	Associated	mg/L	Lead	16.1	0.2
SW384-6	SW384-6	SW384-6-0.0	DI-STL	283881	soil	8/13/2001	Associated	mg/L	Lead	ND	0.2
SW384-6	SW384-6	SW384-6-0.3	TTL	283882	soil	8/7/2001	Associated	mg/kg	Lead	14.7	10.0
SW384-6	SW384-6	SW384-6-0.6	TTL	283883	soil	8/7/2001	Associated	mg/kg	Lead	17.0	10.0
SW384-6	SW384-6	SW384-6-0.9	TTL	283884	soil	8/7/2001	Associated	mg/kg	Lead	38.1	10.0
SW384-6	SW384-6	SW384-6-1.5	TTL	283885	soil	8/7/2001	Associated	mg/kg	Lead	14.0	10.0
SW387-1	SW387-1	SW387-1-0.0	TTL	283413	soil	8/7/2001	Associated	mg/kg	Lead	180	10.0
SW387-1	SW387-1	SW387-1-0.0	STL	283413	soil	8/10/2001	Associated	mg/L	Lead	8.57	0.2
SW387-1	SW387-1	SW387-1-0.0	DI-STL	283413	soil	8/6/2001	Associated	mg/L	Lead	0.30	0.2
SW387-1	SW387-1	SW387-1-0.0	pH	283413	soil	8/13/2001	Associated	NA	pH	7.13	NA
SW387-1	SW387-1	SW387-1-0.3	TTL	283414	soil	8/7/2001	Associated	mg/kg	Lead	16.0	10.0
SW387-1	SW387-1	SW387-1-0.6	TTL	283415	soil	8/7/2001	Associated	mg/kg	Lead	11.0	10.0
SW387-1	SW387-1	SW387-1-0.9	TTL	283416	soil	8/7/2001	Associated	mg/kg	Lead	ND	10.0
SW387-1	SW387-1	SW387-1-0.9	pH	283416	soil	8/6/2001	Associated	NA	pH	7.89	NA
SW387-1	SW387-1	SW387-1-1.5	TTL	283417	soil	8/7/2001	Associated	mg/kg	Lead	ND	10.0
SW387-1	SW387-1	SW387-1-DUP (1.5)	TTL	283418	soil	8/7/2001	Associated	mg/kg	Lead	ND	10.0
SW387-2	SW387-2	SW387-2-0.0	TTL	283408	soil	8/7/2001	Associated	mg/kg	Antimony	ND	3.0
SW387-2	SW387-2	SW387-2-0.0	TTL	283408	soil	8/7/2001	Associated	mg/kg	Arsenic	6.00	0.5
SW387-2	SW387-2	SW387-2-0.0	TTL	283408	soil	8/7/2001	Associated	mg/kg	Barium	188	1.0
SW387-2	SW387-2	SW387-2-0.0	TTL	283408	soil	8/7/2001	Associated	mg/kg	Beryllium	ND	0.5
SW387-2	SW387-2	SW387-2-0.0	TTL	283408	soil	8/7/2001	Associated	mg/kg	Cadmium	ND	0.5
SW387-2	SW387-2	SW387-2-0.0	TTL	283408	soil	8/7/2001	Associated	mg/kg	Chromium	32.4	1.0
SW387-2	SW387-2	SW387-2-0.0	TTL	283408	soil	8/7/2001	Associated	mg/kg	Cobalt	17.6	0.5
SW387-2	SW387-2	SW387-2-0.0	TTL	283408	soil	8/7/2001	Associated	mg/kg	Copper	33.8	1.0
SW387-2	SW387-2	SW387-2-0.0	TTL	283408	soil	8/7/2001	Associated	mg/kg	Lead	103	0.5
SW387-2	SW387-2	SW387-2-0.0	TTL	283408	soil	8/20/2001	Associated	mg/kg	Mercury	ND	0.1
SW387-2	SW387-2	SW387-2-0.0	TTL	283408	soil	8/7/2001	Associated	mg/kg	Molybdenum	ND	1.0
SW387-2	SW387-2	SW387-2-0.0	TTL	283408	soil	8/7/2001	Associated	mg/kg	Nickel	18.6	1.5
SW387-2	SW387-2	SW387-2-0.0	TTL	283408	soil	8/7/2001	Associated	mg/kg	Selenium	ND	0.5
SW387-2	SW387-2	SW387-2-0.0	TTL	283408	soil	8/7/2001	Associated	mg/kg	Silver	ND	0.5
SW387-2	SW387-2	SW387-2-0.0	TTL	283408	soil	8/7/2001	Associated	mg/kg	Thallium	ND	1.0
SW387-2	SW387-2	SW387-2-0.0	TTL	283408	soil	8/7/2001	Associated	mg/kg	Vanadium	59.2	0.5
SW387-2	SW387-2	SW387-2-0.0	TTL	283408	soil	8/7/2001	Associated	mg/kg	Zinc	315	5.0
SW387-2	SW387-2	SW387-2-0.0	STL	283408	soil	8/20/2001	Associated	mg/L	Lead	6.54	0.2
SW387-2	SW387-2	SW387-2-0.0	DI-STL	283408	soil	9/4/2001	Associated	mg/L	Lead	ND	0.2

ANALYTICAL RESULTS

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Site ID	Contractor Borehole ID	Sample ID	Analysis Type	Lab Analysis ID	Matrix	Analysis Date	Lab Name	Result Units	Analyte	Value	Method Detection Limit
SW387-2	SW387-2	SW387-2-0.3	TTL	283409	soil	8/7/2001	Associated	mg/kg	Lead	ND	10.0
SW387-2	SW387-2	SW387-2-0.3	pH	283395	soil	8/7/2001	Associated	NA	pH	7.59	NA
SW387-2	SW387-2	SW387-2-0.6	TTL	283410	soil	8/7/2001	Associated	mg/kg	Lead	ND	10.0
SW387-2	SW387-2	SW387-2-0.9	TTL	283411	soil	8/7/2001	Associated	mg/kg	Lead	22.1	10.0
SW387-2	SW387-2	SW387-2-1.5	TTL	283412	soil	8/7/2001	Associated	mg/kg	Lead	17.1	10.0
SW387-2	SW387-2	SW387-2-1.5	pH	283412	soil	8/6/2001	Associated	NA	pH	8.20	NA
SW397-1	SW397-1	SW397-1-0.0	TTL	283388	soil	8/7/2001	Associated	mg/kg	Lead	63.5	10.0
SW397-1	SW397-1	SW397-1-DUP (0.0)	TTL	283393	soil	8/7/2001	Associated	mg/kg	Lead	34.6	10.0
SW397-1	SW397-1	SW397-1-0.0	STL	283388	soil	8/10/2001	Associated	mg/L	Lead	1.83	0.2
SW397-1	SW397-1	SW397-1-0.3	TTL	283389	soil	8/7/2001	Associated	mg/kg	Lead	38.9	10.0
SW397-1	SW397-1	SW397-1-0.6	TTL	283390	soil	8/7/2001	Associated	mg/kg	Lead	18.6	10.0
SW397-1	SW397-1	SW397-1-0.9	TTL	283391	soil	8/7/2001	Associated	mg/kg	Lead	12.3	10.0
SW397-1	SW397-1	SW397-1-0.9	pH	283391	soil	8/6/2001	Associated	NA	pH	8.14	NA
SW397-1	SW397-1	SW397-1-1.5	TTL	283392	soil	8/7/2001	Associated	mg/kg	Lead	13.3	10.0
SW397-2	SW397-2	SW397-2-0.0	TTL	283394	soil	8/7/2001	Associated	mg/kg	Lead	42.4	10.0
SW397-2	SW397-2	SW397-2-0.3	TTL	283395	soil	8/7/2001	Associated	mg/kg	Lead	ND	10.0
SW397-2	SW397-2	SW397-2-0.6	TTL	283396	soil	8/7/2001	Associated	mg/kg	Lead	16.3	10.0
SW397-2	SW397-2	SW397-2-0.6	pH	283396	soil	8/6/2001	Associated	NA	pH	8.03	NA
SW397-2	SW397-2	SW397-2-0.9	TTL	283397	soil	8/7/2001	Associated	mg/kg	Lead	ND	10.0
SW397-2	SW397-2	SW397-2-1.5	TTL	283398	soil	8/7/2001	Associated	mg/kg	Lead	11.9	10.0
SW397-2	SW397-2	SW397-2-1.5	pH	283398	soil	8/6/2001	Associated	NA	pH	8.54	NA
RW397-1	RW397-1	RW397-1-0.0	TTL	283377	soil	8/7/2001	Associated	mg/kg	Lead	53.0	10.0
RW397-1	RW397-1	RW397-1-0.0	STL	283377	soil	8/10/2001	Associated	mg/L	Lead	2.17	0.2
RW397-1	RW397-1	RW397-1-0.0	pH	283377	soil	8/6/2001	Associated	NA	pH	7.37	NA
RW397-1	RW397-1	RW397-1-0.3	TTL	283378	soil	8/7/2001	Associated	mg/kg	Lead	ND	10.0
RW397-1	RW397-1	RW397-1-0.6	TTL	283379	soil	8/7/2001	Associated	mg/kg	Lead	10.3	10.0
RW397-1	RW397-1	RW397-1-0.9	TTL	283380	soil	8/7/2001	Associated	mg/kg	Lead	ND	10.0
RW397-1	RW397-1	RW397-1-DUP (0.9)	TTL	283382	soil	8/7/2001	Associated	mg/kg	Lead	ND	10.0
RW397-1	RW397-1	RW397-1-0.9	pH	283380	soil	8/6/2001	Associated	NA	pH	8.35	NA
RW397-1	RW397-1	RW397-1-1.5	TTL	283381	soil	8/7/2001	Associated	mg/kg	Lead	12.9	10.0
RW397-2	RW397-2	RW397-2-0.0	TTL	283383	soil	8/7/2001	Associated	mg/kg	Lead	34.0	10.0
RW397-2	RW397-2	RW397-2-0.3	TTL	283384	soil	8/7/2001	Associated	mg/kg	Lead	44.6	10.0
RW397-2	RW397-2	RW397-2-0.3	pH	283384	soil	8/6/2001	Associated	NA	pH	7.77	NA
RW397-2	RW397-2	RW397-2-0.6	TTL	283385	soil	8/7/2001	Associated	mg/kg	Lead	15.6	10.0
RW397-2	RW397-2	RW397-2-0.9	TTL	283386	soil	8/7/2001	Associated	mg/kg	Lead	12.6	10.0
RW397-2	RW397-2	RW397-2-1.5	TTL	283387	soil	8/7/2001	Associated	mg/kg	Lead	ND	10.0
RW397-2	RW397-2	RW397-2-1.5	pH	283387	soil	8/6/2001	Associated	NA	pH	8.36	NA

**APPENDIX A
BORING LOCATIONS**

Appendix A

Boring Locations

Roadway Widening

Borings were located at an interval of 91m (300') except as noted. Samples were collected from 0 to 0.15m (0 to 0.5 ft), 0.3 to 0.45m (1 to 1.5 ft), 0.6 to 0.75m (2 to 2.5 ft), and 0.9 to 1.05m (3 to 3.5 ft) below ground surface.

Northbound Direction:

Location 1: Mainline station 351+20 (at Lennox Blvd under-crossing north end abutment) to 359+60 (approximately 65m south of ramp 22 gore, Century Blvd NB on ramp). No samples were collected in this area due to the presence of asphalt in the sampling area.

Location 2: Mainline station 381+20 (approximately 20m south of bridge collector B) to station 388+25 (approximately 40m north of La Tijera NB off ramp gore point). Borings were located 1m (3.3') from the existing concrete curb or AC dike in the unpaved area. This location totals 700 meters in length and shall have a total of two (2) borings and eight (8) samples.

|| Location 3: Mainline station 394+20 to station 396+61. Borings were located 1.5m (5') from the existing concrete curb or AC dike in the unpaved area. This location totals 241 meters in length and shall have a total of two (2) borings (one at each end limit of the area) and eight (8) samples.

|| Location 4: Mainline station 396+61 to 402+80. Borings were located 0.6m (2') from the existing concrete curb or AC dike in the unpaved area. This location totals 618 meters in length and shall have a total of two (2) borings and eight (8) samples.

|| Location 5: Mainline station 414+92 (approximately 60m north of Jefferson Blvd NB off ramp gore point) to station 419+10 (approximately 50m north of Jefferson Blvd NB on ramp gore point). With the exception of Jefferson Blvd Bridge, borings were located 1.5m (5') from the existing concrete curb and AC dike in the unpaved area. This location totals 418 meters in length and shall have a total of two (2) borings (one at each end limit of the area) and eight (8) samples.

Southbound Direction:

Location 6: Mainline station 351+00 (approximately at gore area of Lennox Blvd Bridge) to station 359+40. With the exception of Century Blvd Bridge, borings were located 1m (3.3') from the existing concrete curb or AC dike in the unpaved area. This location totals 840 meters in length and shall have a total of three (3) borings and twelve (12) samples.

Location 7: Ramp Station 98+00 (approximately at La Cienega off ramp/ collector road) to station 386+00. Borings were located 1m (3.3') from the existing concrete curb or AC dike in the unpaved area. This location totals 440 meters in length and shall have a total of two (2) borings (one at each end limit of the area) and eight (8) samples.

Location 8: Mainline station 392+56 (at gore slope area north of La Tijera Blvd Bridge) to station 393+15. Borings were located 1.5m (5') from the existing AC dike within inside the unpaved gore area. Two boring locations are required, one at the beginning station and one at the ending station for a total of eight samples.

Location 9: No sampling.

Location 10: Mainline station 415+55 (approximately at Jefferson Blvd SB on ramp gore area) to station 419+31. With the exception of Jefferson Blvd Bridge, borings were located 1.5m (5') from the existing concrete curb or AC dike in the unpaved area. This location totals 376 meters in length and shall have a total of two (2) borings (one at each end limit of the area) and eight (8) samples.

Proposed Soundwalls

Samples were taken at an interval of 91m (300') between borings for SW 348, 366, 368, 376, 395, 397, and retaining walls, 383, 395, and 397, except as noted. Samples were collected from 0 to 0.15m (0 to 0.5 ft), 0.3 to 0.45m (1 to 1.5 ft), 0.6 to 0.75m (2 to 2.5 ft), 0.9 to 1.05m (3 to 3.5 ft), and 1.5 to 1.65m (5 to 5.5 ft) below ground surface.

Northbound Direction:

SW-348: The wall starts at station 347+80 and ends at station 348+88 (match with existing south end bridge rail of Lennox Blvd bridge). The borings were located 0.3m (1') from the existing concrete curb or AC dike in the unpaved area. Two borings will be required within this location, one at the beginning station and one at the ending station. This results in a total of ten (10) samples.

SW-352: The wall starts at station 350+40 (approximately at existing north end bridge rail of Lennox Blvd bridge) and ends at station 356+62 (at NB Century Blvd off ramp). The borings were located 0.3m (1') from the existing concrete curb or AC dike in the unpaved area. This location totals 622 meters in length and shall have a total of two (2) boring locations, one at each end limit of the area. This results in a total of ten (10) samples.

SW-366: The wall starts at station 366+35 (approximately at the north end abutment of Arbor Vitae bridge) and ends at station 368+60. The borings were located 1.5m (5') from the existing R/W line above the cut slope. Two boring locations will be required within this area, one at the beginning station and one at the ending station. This results in a total of ten (10) samples.

SW-368: The wall starts at station 368+70 (approximately at the north end abutment of Spruce Ave pedestrian bridge) and ends at station 370+30 (approximately at south end abutment of Hillcrest Blvd bridge). The borings were located 3m (10') from the existing R/W line above the cut slope. Two boring locations will be required within this area, one at the beginning station and one at the ending station. This results in a total of ten (10) samples.

SW-370: The wall starts at station 370+40 (approximately at the north end abutment of Hillcrest Blvd bridge) and ends at station 374+65 (approximately 120m south of Manchester Blvd and NB off ramp intersection). The samples were taken 1.5m (5') from the existing R/W line above the cut slope. This location totals 425 meters in length and shall have a total of two (2) boring locations, one at the beginning station and one at the ending station. This results in a total of ten (10) samples.

SW-376: The wall starts at station 376+40 (approximately 40m south of Manchester Blvd bridge) and ends at station 376+78. The borings were located 0.6m (2') from the R/W line above the cut slope. Two boring locations will be required within this area, one at the beginning station and one at the ending station. This results in a total of ten (10) samples.

SW-384: The wall starts at station 382+46 (approximately at La Cienega Blvd bridge) and ends at station 389+91. The borings at segment 1 (station 382+46 to 383+20) were taken 6.4m (21') from the R/W line at station 382+46. Segment 2 (station 383+20 to 384+20) borings were located 4m (13') from the R/W line at station 383+20. Segment 3 (station 384+20 to 386+00) borings were located 2m from the R/W line at station 384+20. Segment 4 (station 384+20 to 387+00) borings were located 3.6m (12') from the R/W line at station 386+00 and segment 5 (station 387+00 to 389+91) borings were located 4.9m (16') from the R/W line above the cut slope at station 387+00 and 389+91.

Southbound Direction (Soundwalls):

SW-381: The wall starts at station 379+10 (approximately 80m south of railroad over-crossing and collector road of La Cienega Blvd) and ends at station 381+45. The borings were located 0.45m (1.5') from the R/W line above the cut slope.

This location totals 235 meters in length and shall have a total of two (2) borings one at the beginning station and one at the ending station. This results in a total of ten (10) samples.

SW-387: The wall starts at station 387+40 (approximately 50m south of gore point of La Tijera Blvd SB on ramp) and ends at station 389+33. The borings were located 0.45m

(1.5') from the R/W line above the cut slope. This location totals 193 meters in length and shall have a total of two (2) borings, one at the beginning station and one at the ending station. This results in a total of ten (10) samples.

SW-397: The wall starts at station 395+40 (approximately 100 m north of the gore point for southbound exit ramp for La Tijera Blvd) and ends at station 396+30. The borings were located 0.3m (1.0') from the R/W line above the cut slope. Two borings will be required within this location, one at the beginning station and one at the ending station. This results in a total of ten (10) samples.

Southbound Direction (Retaining walls):

Ret Wall 397: The wall starts at station 395+10 (approximately 35m south of the existing sign located at station 394+45) and ends at station 396+25. The borings were located 7.3m (24") from the edge of pavement towards the R/W line. Two borings will be required within this location, one at the beginning station and one at the ending station. This results in a total of ten (10) samples.

**APPENDIX B
DRILLING AND SAMPLING PROCEDURES**

Appendix B

Drilling and Sampling Procedures

The procedures that were used for advancing the borings and collecting soil samples are presented below.

- Caltrans obtained any permits required for the field investigation.

Drilling and Soil Sample Collection

- A total of 43 soil borings along select portions of Route 405 were advanced and sampled as follows:
 - **Roadway Widening:** The soil samples were collected from the surface to 0.15 meters (0.0 to 0.5 feet), at 0.3 to 0.45 meters (1 to 1.5 feet), at 0.6 to 0.75 meters (2 to 2.5 feet) and at 0.9 to 1.05 meters (3 to 3.5 feet) below grade.
 - **Proposed Sound Walls and Retaining Walls:** The soil samples were collected from the surface to 0.15 meters (0.0 to 0.5 feet), at 0.3 to 0.45 meters (1 to 1.5 feet), at 0.6 to 0.75 meters (2 to 2.5 feet), at 0.9 to 1.05 meters (3 to 3.5 feet) and at 1.5 to 1.65 meters (5 to 5.5 feet) below grade.
- One equipment blank was collected daily from the sampling equipment following decontamination procedures by passing deionized water through a washed hand-auger into the sample container.
- One duplicate sample was collected from each retaining wall/sound wall and roadway widening location.
- The hand-augers and sampling equipment was washed in a detergent rinse, one clear water rinse, and a final deionized/distilled water rinse prior to drilling and sampling. Decontamination solutions were poured into a UN approved 208-liter (55-gallon) drum pending disposal.
- Soil samples were collected directly from the hand-auger and transferred to glass sample containers.
- Each sample was labeled with the sample number, date, project number, and samplers' initials. Soil samples were labeled with the sample location, boring number and approximate sample collection depth. For example, SW348-1-0.6, where SW348 is the boring location, 1 is the boring number, and 0.6 is the sample collection depth at approximately 0.6 meters below the ground surface.
- Any soil that is not retained for laboratory analysis was used as backfill.

Sample Retention and Analysis

- All samples were placed on ice in an insulated chest cooled to a temperature of approximately 4 degrees Celsius.
- Chain-of-custody procedures, including the use of chain-of-custody forms, were used to document sample handling and transport from collection to delivery to the laboratory for analysis.
- The samples were retained in the insulated chests preserved with ice overnight in the custody of an IT employee. The samples were transported to the laboratory by courier provided by the laboratory each day, following collection.
- Laboratory quality assurance/quality control procedures are summarized below:
 - Method Blank Frequency = one per 10 samples
 - Matrix Spike/Matrix Spike Duplicate = one per 10 samples
 - Laboratory Control Sample/Laboratory Control Sample Duplicate = one per 10 samples

APPENDIX C
LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY FORMS



ASSOCIATED LABORATORIES

806 North Batavia - Orange, California 92868 - 714/771-6900

FAX 714/538-1209

CLIENT IT Corporation (9493)
ATTN: Don Bransford
1236 N. Market Boulevard
Sacramento, CA 95834-1912

LAB REQUEST 77351

REPORTED 08/22/2001

RECEIVED 08/01/2001

PROJECT #829965
Interstate 405 Improvement Project

SUBMITTER Client

COMMENTS Added STLC DI Lead to 283408 on 8/31/01.
Added STLC Pb to 283368, 369, 372, 373, 377, 388, 401, 402,
403, 404, 413, 420, 433, 434, 440, 444, 456 on 08/08.
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Added STLC Pb to 283408, 419 & TCLP Pb to

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<u>Order No.</u>	<u>Client Sample Identification</u>
283368	RW10-2-0.0
283369	RW10-2-0.3
283370	RW10-2-0.6
283371	RW10-2-0.9
283372	RW10-1-0.0
283373	RW10-1-0.3
283374	RW10-1-0.6
283375	RW10-1-0.9
283376	RW10-1-DUP

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Vice President

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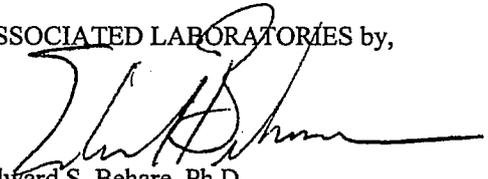
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<u>Order No.</u>	<u>Client Sample Identification</u>
283377	RW397-1-0.0
283378	RW397-1-0.3
283379	RW397-1-0.6
283380	RW397-1-0.9
283381	RW397-1-1.5
283382	RW397-1-DUP
283383	RW397-2-0.0
283384	RW397-2-0.3
283385	RW397-2-0.6
283386	RW397-2-0.9
283387	RW397-2-1.5
283388	SW397-1-0.0
283389	SW397-1-0.3
283390	SW397-1-0.6
283391	SW397-1-0.9
283392	SW397-1-1.5

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<u>Order No.</u>	<u>Client Sample Identification</u>
283393	SW397-1-DUP
283394	SW397-2-0.0
283395	SW397-2-0.3
283396	SW397-2-0.6
283397	SW397-2-0.9
283398	SW397-2-1.5
283399	RW8-2-0.0
283400	RW8-2-0.3
283401	RW8-2-0.6
283402	RW8-2-0.9
283403	RW8-1-0.0
283404	RW8-1-0.3
283405	RW8-1-0.6
283406	RW8-1-0.9
283407	RW8-1-DUP
283408	SW387-2-0.0

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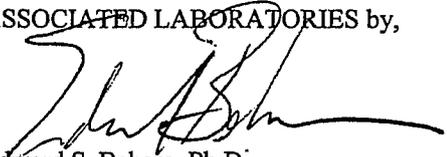
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<u>Order No.</u>	<u>Client Sample Identification</u>
283409	SW387-2-0.3
283410	SW387-2-0.6
283411	SW387-2-0.9
283412	SW387-2-1.5
283413	SW387-1-0.0
283414	SW387-1-0.3
283415	SW387-1-0.6
283416	SW387-1-0.9
283417	SW387-1-1.5
283418	SW387-1-DUP
283419	RW7-2-0.0
283420	RW7-2-0.3
283421	RW7-2-0.6
283422	RW7-2-0.9
283423	RW7-1-0.0
283424	RW7-1-0.3

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<u>Order No.</u>	<u>Client Sample Identification</u>
283425	RW7-1-0.6
283426	RW7-1-0.9
283427	RW7-1-DUP
283428	SW381-2-0.0
283429	SW381-2-0.3
283430	SW381-2-0.6
283431	SW381-2-0.9
283432	SW381-2-1.5
283433	SW381-1-0.0
283434	SW381-1-0.3
283435	Decon Rinse
283436	RW6-3-0.0
283437	RW6-3-0.3
283438	RW6-3-0.6
283439	RW6-3-0.9
283440	RW6-2-0.0

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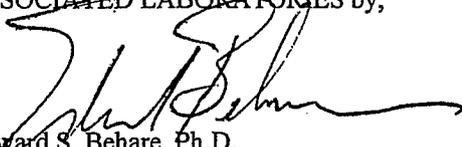
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<u>Order No.</u>	<u>Client Sample Identification</u>
283441	RW6-2-0.3
283442	RW6-2-0.6
283443	RW6-2-0.9
283444	RW6-1-0.0
283445	RW6-1-0.3
283446	RW6-1-0.6
283447	RW6-1-0.9
283448	RW6-1-DUP
283449	SW348-2-0.0
283450	SW348-2-0.3
283451	SW348-2-0.6
283452	SW348-2-0.9
283453	SW348-2-1.5
283454	SW352-1-0.0
283455	SW352-1-0.3
283456	SW352-1-0.6

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Order No.

283457

283458

Client Sample Identification

SW352-1-0.9

SW352-1-DUP

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,



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Matrix: SOLID
Date Sampled: 07/31/2001
Time Sampled: 08:52

Analyte	Result	DLR	Units	Date/Analyst
7420 Lead by Atomic Absorption				
Lead	928	100.0	mg/Kg	08/07/01 NK
7420 DI-STLC Lead by AA				
Lead DI-STLC	ND	0.2	mg/L	08/13/01 NK
7420 STLC Lead by AA				
Lead STLC	28.8	2.0	mg/L	08/10/01 NK

Order #: Client Sample ID: RW10-2-0.3 Log Date: 08/02
Matrix: SOLID
Date Sampled: 07/31/2001
Time Sampled: 09:00

Analyte	Result	DLR	Units	Date/Analyst
7420 Lead by Atomic Absorption				
Lead	319	10.0	mg/Kg	08/07/01 NK
7420 DI-STLC Lead by AA				
Lead DI-STLC	0.24	0.2	mg/L	08/13/01 NK
7420 STLC Lead by AA				
Lead STLC	17.0	2.0	mg/L	08/10/01 NK
9045 pH				
pH	7.47	NA		08/06/01 GP

Order #: Client Sample ID: RW10-2-0.6 Log Date: 08/02/20
Matrix: SOLID
Date Sampled: 07/31/2001
Time Sampled: 09:06

Analyte	Result	DLR	Units	Date/Analyst
7420 Lead by Atomic Absorption				

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Lead	16.3	10.0	mg/Kg	08/07/01	NK
------	------	------	-------	----------	----

Order #: Client Sample ID: RW10-2-0.9 Log Date: 08/02/2001
 Matrix: SOLID
 Date Sampled: 07/31/2001
 Time Sampled: 09:09

Analyte	Result	DLR	Units	Date/Analyst
---------	--------	-----	-------	--------------

7420 Lead by Atomic Absorption

Lead	46.2	10.0	mg/Kg	08/07/01	NK
------	------	------	-------	----------	----

9045 pH

pH	7.22		NA	08/06/01	GP
----	------	--	----	----------	----

Order #: Client Sample ID: RW10-1-0.0 Log Date: 08/02/2001
 Matrix: SOLID
 Date Sampled: 07/31/2001
 Time Sampled: 09:31

Analyte	Result	DLR	Units	Date/Analyst
---------	--------	-----	-------	--------------

7420 Lead by Atomic Absorption

Lead	493	10.0	mg/Kg	08/07/01	NK
------	-----	------	-------	----------	----

7420 DI-STLC Lead by AA

Lead DI-STLC	ND	0.2	mg/L	08/13/01	NK
--------------	----	-----	------	----------	----

7420 STLC Lead by AA

Lead STLC	15.7	2.0	mg/L	08/10/01	NK
-----------	------	-----	------	----------	----

9045 pH

pH	7.42		NA	08/06/01	GP
----	------	--	----	----------	----

Order #: Client Sample ID: RW10-1-0.3 Log Date: 08/02/2001
 Matrix: SOLID
 Date Sampled: 07/31/2001
 Time Sampled: 09:36

Analyte	Result	DLR	Units	Date/Analyst
---------	--------	-----	-------	--------------

7420 Lead by Atomic Absorption

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



7420 DI-STLC Lead by AA

Lead DI-STLC	ND	0.2	mg/L	08/13/01	NK
--------------	----	-----	------	----------	----

7420 STLC Lead by AA

Lead STLC	5.23	0.2	mg/L	08/10/01	NK
-----------	------	-----	------	----------	----

Order #: 283374

Client Sample ID: RW10-1-0.6

Log Date: 08/02

Matrix: SOLID

Date Sampled: 07/31/2001

Time Sampled: 09:40

Analyte	Result	DLR	Units	Date/Analyst
---------	--------	-----	-------	--------------

7420 Lead by Atomic Absorption

Lead	21.5	10.0	mg/Kg	08/07/01	NK
------	------	------	-------	----------	----

9045 pH

pH	8.00		NA	08/06/01	GP
----	------	--	----	----------	----

Order #: 283375

Client Sample ID: RW10-1-0.9

Log Date: 08/02

Matrix: SOLID

Date Sampled: 07/31/2001

Time Sampled: 09:43

Analyte	Result	DLR	Units	Date/Analyst
---------	--------	-----	-------	--------------

7420 Lead by Atomic Absorption

Lead	ND	10.0	mg/Kg	08/07/01	NK
------	----	------	-------	----------	----

Order #: 283376

Client Sample ID: RW10-1-DUP

Log Date: 08/02

Matrix: SOLID

Date Sampled: 07/31/2001

Analyte	Result	DLR	Units	Date/Analyst
---------	--------	-----	-------	--------------

7420 Lead by Atomic Absorption

Lead	30.1	10.0	mg/Kg	08/07/01	NK
------	------	------	-------	----------	----

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Order #: 283377

Client Sample ID: RW397-1-0.0

Log Date: 08/02/2

Matrix: SOLID

Date Sampled: 07/31/2001

Time Sampled: 10:38

Analyte	Result	DLR	Units	Date/Analyst
---------	--------	-----	-------	--------------

7420 Lead by Atomic Absorption

Lead	53.0	10.0	mg/Kg	08/07/01 NK
------	------	------	-------	-------------

7420 STLC Lead by AA

Lead STLC	2.17	0.2	mg/L	08/10/01 NK
-----------	------	-----	------	-------------

9045 pH

pH	7.37		NA	08/06/01 GP
----	------	--	----	-------------

Order #: 283378

Client Sample ID: RW397-1-0.3

Log Date: 08/02/2

Matrix: SOLID

Date Sampled: 07/31/2001

Time Sampled: 10:47

Analyte	Result	DLR	Units	Date/Analyst
---------	--------	-----	-------	--------------

7420 Lead by Atomic Absorption

Lead	ND	10.0	mg/Kg	08/07/01 NK
------	----	------	-------	-------------

Order #: 283379

Client Sample ID: RW397-1-0.6

Log Date: 08/02/2

Matrix: SOLID

Date Sampled: 07/31/2001

Time Sampled: 10:50

Analyte	Result	DLR	Units	Date/Analyst
---------	--------	-----	-------	--------------

7420 Lead by Atomic Absorption

Lead	10.3	10.0	mg/Kg	08/07/01 NK
------	------	------	-------	-------------

Order #: 283380

Client Sample ID: RW397-1-0.9

Log Date: 08/02/2

Matrix: SOLID

Date Sampled: 07/31/2001

Time Sampled: 10:53

Analyte	Result	DLR	Units	Date/Analyst
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Lead	ND	10.0	mg/Kg	08/07/01	NK
------	----	------	-------	----------	----

9045 pH

pH	8.35	NA		08/06/01	GP
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Order #: Client Sample ID: RW397-1-1.5 Log Date: 08/02/
 Matrix: SOLID
 Date Sampled: 07/31/2001
 Time Sampled: 10:57

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	12.9	10.0	mg/Kg	08/07/01	NK
------	------	------	-------	----------	----

Order #: Client Sample ID: RW397-1-DUP Log Date: 08/02/
 Matrix: SOLID
 Date Sampled: 07/31/2001
 Time Sampled: 11:03

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	ND	10.0	mg/Kg	08/07/01	NK
------	----	------	-------	----------	----

Order #: Client Sample ID: RW397-2-0.0 Log Date: 08/02/
 Matrix: SOLID
 Date Sampled: 07/31/2001

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	34.0	10.0	mg/Kg	08/07/01	NK
------	------	------	-------	----------	----

Order #: Client Sample ID: RW397-2-0.3 Log Date: 08/02/
 Matrix: SOLID
 Date Sampled: 07/31/2001

Analyte	Result	DLR	Units	Date/Analyst
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



7420 Lead by Atomic Absorption

Lead	44.6	10.0	mg/Kg	08/07/01	NK
------	------	------	-------	----------	----

9045 pH

pH	7.77		NA	08/06/01	GP
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Order #:

Client Sample ID: RW397-2-0.6

Log Date: 08/02/2

Matrix: SOLID

Date Sampled: 07/31/2001

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	15.6	10.0	mg/Kg	08/07/01	NK
------	------	------	-------	----------	----

Order #:

Client Sample ID: RW397-2-0.9

Log Date: 08/02/2

Matrix: SOLID

Date Sampled: 07/31/2001

Time Sampled: 11:31

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	12.6	10.0	mg/Kg	08/07/01	NK
------	------	------	-------	----------	----

Order #:

Client Sample ID: RW397-2-1.5

Log Date: 08/02/2

Matrix: SOLID

Date Sampled: 07/31/2001

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	ND	10.0	mg/Kg	08/07/01	NK
------	----	------	-------	----------	----

9045 pH

pH	6.36		NA	08/06/01	GP
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Matrix: SOLID
Date Sampled: 07/31/2001
Time Sampled: 11:38

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	63.5	10.0	mg/Kg	08/07/01 NK
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7420 STLC Lead by AA

Lead STLC	1.83	0.2	mg/L	08/10/01 NK
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Order #: Client Sample ID: SW397-1-0.3 Log Date: 08/07/01
Matrix: SOLID
Date Sampled: 07/31/2001
Time Sampled: 11:40

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	38.9	10.0	mg/Kg	08/07/01 NK
------	------	------	-------	-------------

Order #: Client Sample ID: SW397-1-0.6 Log Date: 08/07/01
Matrix: SOLID
Date Sampled: 07/31/2001
Time Sampled: 11:43

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	18.6	10.0	mg/Kg	08/07/01 NK
------	------	------	-------	-------------

Order #: Client Sample ID: SW397-1-0.9 Log Date: 08/02/01
Matrix: SOLID
Date Sampled: 07/31/2001
Time Sampled: 11:47

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	12.3	10.0	mg/Kg	08/07/01 NK
------	------	------	-------	-------------

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



9045 pH

pH	8.14	NA	08/06/01	GP
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Order #: 283392

Client Sample ID: SW397-1-1.5

Log Date: 08/02/2

Matrix: SOLID

Date Sampled: 07/31/2001

Time Sampled: 11:50

Analyte	Result	DLR	Units	Date/Analyst
<u>7420 Lead by Atomic Absorption</u>				
Lead	13.3	10.0	mg/Kg	08/07/01 NK

Order #: 283393

Client Sample ID: SW397-1-DUP

Log Date: 08/02/2

Matrix: SOLID

Date Sampled: 07/31/2001

Analyte	Result	DLR	Units	Date/Analyst
<u>7420 Lead by Atomic Absorption</u>				
Lead	34.6	10.0	mg/Kg	08/07/01 NK

Order #: 283394

Client Sample ID: SW397-2-0.0

Log Date: 08/02/2

Matrix: SOLID

Date Sampled: 07/31/2001

Time Sampled: 12:10

Analyte	Result	DLR	Units	Date/Analyst
<u>7420 Lead by Atomic Absorption</u>				
Lead	42.4	10.0	mg/Kg	08/07/01 NK

Order #: 283395

Client Sample ID: SW397-2-0.3

Log Date: 08/02/2

Matrix: SOLID

Date Sampled: 07/31/2001

Time Sampled: 12:14

Analyte	Result	DLR	Units	Date/Analyst
<u>7420 Lead by Atomic Absorption</u>				
Lead	ND	10.0	mg/Kg	08/07/01 NK

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Order #: 283396

Client Sample ID: SW397-2-0.6

Log Date: 08/02

Matrix: SOLID

Date Sampled: 07/31/2001

Time Sampled: 12:17

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	16.3	10.0	mg/Kg	08/07/01 NK
------	------	------	-------	-------------

9045 pH

pH	8.03		NA	08/06/01 GP
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Order #: 283397

Client Sample ID: SW397-2-0.9

Log Date: 08/02

Matrix: SOLID

Date Sampled: 07/31/2001

Time Sampled: 12:19

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	ND	10.0	mg/Kg	08/07/01 NK
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Order #: 283398

Client Sample ID: SW397-2-1.5

Log Date: 08/02

Matrix: SOLID

Date Sampled: 07/31/2001

Time Sampled: 12:25

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	11.9	10.0	mg/Kg	08/07/01 NK
------	------	------	-------	-------------

9045 pH

pH	8.54		NA	08/06/01 GP
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Order #: 283399

Client Sample ID: RW8-2-0.0

Log Date: 08/02

Matrix: SOLID

Date Sampled: 07/31/2001

Time Sampled: 12:54

Analyte	Result	DLR	Units	Date/Analyst
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



1311/7420 TCLP Lead by AA

Lead TCLP	0.53	0.1	mg/L	08/22/01	KN
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7420 Lead by Atomic Absorption

Lead	1,000	100.0	mg/Kg	08/07/01	NK
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Order #:

Client Sample ID: RW8-2-0.3

Log Date: 08/02/2

Matrix: SOLID

Date Sampled: 07/31/2001

Time Sampled: 12:57

Analyte	Result	DLR	Units	Date/Analyst
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1311/7420 TCLP Lead by AA

Lead TCLP	0.86	0.1	mg/L	08/22/01	KN
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7420 Lead by Atomic Absorption

Lead	1,340	100.0	mg/Kg	08/07/01	NK
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9045 pH

pH	7.63		NA	08/06/01	GP
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Order #:

Client Sample ID: RW8-2-0.6

Log Date: 08/02/2

Matrix: SOLID

Date Sampled: 07/31/2001

Time Sampled: 12:59

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	173	10.0	mg/Kg	08/07/01	NK
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7420 STLC Lead by AA

Lead STLC	4.75	0.2	mg/L	08/10/01	NK
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Order #:

Client Sample ID: RW8-2-0.9

Log Date: 08/02/2

Matrix: SOLID

Date Sampled: 07/31/2001

Time Sampled: 13:03

Analyte	Result	DLR	Units	Date/Analyst
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Lead	80.4	10.0	mg/Kg	08/07/01	NK
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7420 STLC Lead by AA

Lead STLC	1.22	0.2	mg/L	08/10/01	NK
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9045 pH

pH	7.99		NA	08/06/01	GP
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Order #:

Client Sample ID: RW8-1-0.0

Log Date: 08/02/01

Matrix: SOLID

Date Sampled: 07/31/2001

Time Sampled: 13:11

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	930	100.0	mg/Kg	08/07/01	NK
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7420 DI-STLC Lead by AA

Lead DI-STLC	0.34	0.2	mg/L	08/13/01	NK
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7420 STLC Lead by AA

Lead STLC	18.2	2.0	mg/L	08/10/01	NK
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9045 pH

pH	6.74		NA	08/06/01	GP
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Order #:

Client Sample ID: RW8-1-0.3

Log Date: 08/02/01

Matrix: SOLID

Date Sampled: 07/31/2001

Time Sampled: 13:13

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	51.6	10.0	mg/Kg	08/07/01	NK
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7420 STLC Lead by AA

Lead STLC	1.23	0.2	mg/L	08/10/01	NK
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Order #: 283405

Client Sample ID: RW8-1-0.6

Log Date: 08/02/2

Matrix: SOLID

Date Sampled: 07/31/2001

Time Sampled: 13:15

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	30.3	10.0	mg/Kg	08/07/01 NK
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9045 pH

pH	7.74		NA	08/06/01 GP
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Order #: 283406

Client Sample ID: RW8-1-0.9

Log Date: 08/02/2

Matrix: SOLID

Date Sampled: 07/31/2001

Time Sampled: 13:19

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	25.5	10.0	mg/Kg	08/07/01 NK
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Order #: 283407

Client Sample ID: RW8-1-DUP

Log Date: 08/02/2

Matrix: SOLID

Date Sampled: 07/31/2001

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	22.4	10.0	mg/Kg	08/07/01 NK
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Order #: 283408

Client Sample ID: SW387-2-0.0

Log Date: 08/02/2

Matrix: SOLID

Date Sampled: 07/31/2001

Time Sampled: 15:12

Analyte	Result	DLR	Units	Date/Analyst
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6010B ICP CAM Metals Only (16 Metals)

Antimony	ND	15.0	mg/Kg	08/07/01 KN
Arsenic	6.00	0.5	mg/Kg	08/08/01 MS

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Beryllium	ND	2.5	mg/Kg	08/07/01	KN
Cadmium	ND	2.5	mg/Kg	08/07/01	KN
Chromium	32.4	5.0	mg/Kg	08/07/01	KN
Cobalt	17.6	2.5	mg/Kg	08/07/01	KN
Copper	33.8	5.0	mg/Kg	08/07/01	KN
Lead	103	0.5	mg/Kg	08/08/01	MS
Molybdenum	ND	5.0	mg/Kg	08/07/01	KN
Nickel	18.6	7.5	mg/Kg	08/07/01	KN
Selenium	ND	0.5	mg/Kg	08/08/01	MS
Silver	ND	2.5	mg/Kg	08/07/01	KN
Thallium	ND	1.0	mg/Kg	08/08/01	MS
Vanadium	59.2	2.5	mg/Kg	08/07/01	KN
Zinc	315	25.0	mg/Kg	08/07/01	KN

7420 DI-STLC Lead by AA

Lead DI-STLC	ND	0.2	mg/L	09/04/01	NK
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7420 STLC Lead by AA

Lead STLC	6.54	0.2	mg/L	08/20/01	NK
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7471A Mercury in Solid

Mercury	ND	0.14	mg/Kg	08/07/01	MDJ
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Order #:

Client Sample ID: SW387-2-0.3

Log Date: 08/02/01

Matrix: SOLID

Date Sampled: 07/31/2001

Time Sampled: 15:14

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	ND	10.0	mg/Kg	08/07/01	NK
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9045 pH

pH	7.59		NA	08/06/01	GP
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Order #:

Client Sample ID: SW387-2-0.6

Log Date: 08/02/01

Matrix: SOLID

Date Sampled: 07/31/2001

Time Sampled: 15:16

Analyte	Result	DLR	Units	Date/Analyst
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



7420 Lead by Atomic Absorption

Lead	ND	10.0	mg/Kg	08/07/01	NK
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Order #: 283411

Client Sample ID: SW387-2-0.9

Log Date: 08/02/20

Matrix: SOLID

Date Sampled: 07/31/2001

Time Sampled: 15:20

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	22.1	10.0	mg/Kg	08/07/01	NK
------	------	------	-------	----------	----

Order #: 283412

Client Sample ID: SW387-2-1.5

Log Date: 08/02/20

Matrix: SOLID

Date Sampled: 07/31/2001

Time Sampled: 15:24

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	17.1	10.0	mg/Kg	08/07/01	NK
------	------	------	-------	----------	----

9045 pH

pH	8.20		NA	08/06/01	GP
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Order #: 283413

Client Sample ID: SW387-1-0.0

Log Date: 08/02/20

Matrix: SOLID

Date Sampled: 07/31/2001

Time Sampled: 15:49

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	180	10.0	mg/Kg	08/07/01	NK
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7420 STLC Lead by AA

Lead STLC	8.57	0.2	mg/L	08/10/01	NK
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9045 pH

pH	7.13		NA	08/06/01	GP
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Matrix: SOLID
Date Sampled: 07/31/2001
Time Sampled: 15:51

Analyte	Result	DLR	Units	Date/Analyst
<u>7420 Lead by Atomic Absorption</u>				
Lead	16.0	10.0	mg/Kg	08/07/01 NK

Order #: Client Sample ID: SW387-1-0.6 Log Date: 08/02/2
Matrix: SOLID
Date Sampled: 07/31/2001
Time Sampled: 15:54

Analyte	Result	DLR	Units	Date/Analyst
<u>7420 Lead by Atomic Absorption</u>				
Lead	11.0	10.0	mg/Kg	08/07/01 NK

Order #: Client Sample ID: SW387-1-0.9 Log Date: 08/02/2
Matrix: SOLID
Date Sampled: 07/31/2001
Time Sampled: 15:56

Analyte	Result	DLR	Units	Date/Analyst
<u>7420 Lead by Atomic Absorption</u>				
Lead	ND	10.0	mg/Kg	08/07/01 NK

<u>9045 pH</u>				
pH	7.89		NA	08/06/01 GP

Order #: Client Sample ID: SW387-1-1.5 Log Date: 08/02/2
Matrix: SOLID
Date Sampled: 07/31/2001
Time Sampled: 16:04

Analyte	Result	DLR	Units	Date/Analyst
<u>7420 Lead by Atomic Absorption</u>				
Lead	ND	10.0	mg/Kg	08/07/01 NK

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Order #: 283418

Client Sample ID: SW387-1-DUP

Log Date: 08/02/2

Matrix: SOLID

Date Sampled: 07/31/2001

Analyte**Result****DLR****Units****Date/Analyst**7420 Lead by Atomic Absorption

Lead	ND	10.0	mg/Kg	08/07/01	NK
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Order #: 283419

Client Sample ID: RW7-2-0.0

Log Date: 08/02/2

Matrix: SOLID

Date Sampled: 07/31/2001

Time Sampled: 16:25

Analyte**Result****DLR****Units****Date/Analyst**6010B ICP CAM Metals Only (16 Metals)

Antimony	ND	15.0	mg/Kg	08/07/01	KN
Arsenic	7.54	5.0	mg/Kg	08/08/01	MS
Barium	229	5.0	mg/Kg	08/07/01	KN
Beryllium	ND	2.5	mg/Kg	08/07/01	KN
Cadmium	2.70	2.5	mg/Kg	08/07/01	KN
Chromium	35.0	5.0	mg/Kg	08/07/01	KN
Cobalt	13.3	2.5	mg/Kg	08/07/01	KN
Copper	103	5.0	mg/Kg	08/07/01	KN
Lead	1,100	5.0	mg/Kg	08/08/01	MS
Molybdenum	ND	5.0	mg/Kg	08/07/01	KN
Nickel	30.5	7.5	mg/Kg	08/07/01	KN
Selenium	ND	5.0	mg/Kg	08/08/01	MS
Silver	ND	2.5	mg/Kg	08/07/01	KN
Thallium	ND	10.0	mg/Kg	08/08/01	MS
Vanadium	38.8	2.5	mg/Kg	08/07/01	KN
Zinc	610	25.0	mg/Kg	08/07/01	KN

7420 STLC Lead by AA

Lead STLC	99.3	2.0	mg/L	08/20/01	NK
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7471A Mercury in Solid

Mercury	ND	0.14	mg/Kg	08/07/01	MDJ
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Matrix: SOLID
Date Sampled: 07/31/2001
Time Sampled: 16:27

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	89.8	10.0	mg/Kg	08/07/01 NK
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7420 STLC Lead by AA

Lead STLC	3.49	0.2	mg/L	08/10/01 NK
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9045 pH

pH	8.09		NA	08/06/01 GP
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Order #: Client Sample ID: RW7-2-0.6 Log Date: 08/0
Matrix: SOLID
Date Sampled: 07/31/2001
Time Sampled: 16:29

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	ND	10.0	mg/Kg	08/07/01 NK
------	----	------	-------	-------------

Order #: Client Sample ID: RW7-2-0.9 Log Date: 08/0
Matrix: SOLID
Date Sampled: 07/31/2001
Time Sampled: 16:31

Analyte	Result	DLR	Units	Date/Analyst
---------	--------	-----	-------	--------------

7420 Lead by Atomic Absorption

Lead	26.8	10.0	mg/Kg	08/07/01 NK
------	------	------	-------	-------------

9045 pH

pH	8.08		NA	08/06/01 GP
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Order #: 283423

Client Sample ID: RW7-1-0.0

Log Date: 08/02/2

Matrix: SOLID

Date Sampled: 07/31/2001

Time Sampled: 16:53

Analyte	Result	DLR	Units	Date/Analyst
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1311/7420 TCLP Lead by AA

Lead TCLP	0.43	0.1	mg/L	08/22/01 MS
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7420 Lead by Atomic Absorption

Lead	1,510	100.0	mg/Kg	08/07/01 NK
------	-------	-------	-------	-------------

9045 pH

pH	7.10		NA	08/06/01 GP
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Order #: 283424

Client Sample ID: RW7-1-0.3

Log Date: 08/02/2

Matrix: SOLID

Date Sampled: 07/31/2001

Time Sampled: 16:55

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	21.5	10.0	mg/Kg	08/07/01 NK
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Order #: 283425

Client Sample ID: RW7-1-0.6

Log Date: 08/02/2

Matrix: SOLID

Date Sampled: 07/31/2001

Time Sampled: 16:57

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	ND	10.0	mg/Kg	08/07/01 NK
------	----	------	-------	-------------

9045 pH

pH	8.02		NA	08/06/01 GP
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Matrix: SOLID
Date Sampled: 07/31/2001
Time Sampled: 17:00

Analyte	Result	DLR	Units	Date/Analyst
<u>7420 Lead by Atomic Absorption</u>				
Lead	11.4	10.0	mg/Kg	08/07/01 NK

Order #: Client Sample ID: RW7-1-DUP Log Date: 08/02/
Matrix: SOLID
Date Sampled: 07/31/2001

Analyte	Result	DLR	Units	Date/Analyst
<u>7420 Lead by Atomic Absorption</u>				
Lead	ND	10.0	mg/Kg	08/07/01 NK

Order #: Client Sample ID: SW381-2-0.0 Log Date: 08/02/
Matrix: SOLID
Date Sampled: 07/31/2001
Time Sampled: 17:29

Analyte	Result	DLR	Units	Date/Analyst
<u>7420 Lead by Atomic Absorption</u>				
Lead	39.3	10.0	mg/Kg	08/07/01 NK

Order #: Client Sample ID: SW381-2-0.3 Log Date: 08/02/
Matrix: SOLID
Date Sampled: 07/31/2001
Time Sampled: 17:32

Analyte	Result	DLR	Units	Date/Analyst
<u>7420 Lead by Atomic Absorption</u>				
Lead	11.6	10.0	mg/Kg	08/07/01 NK

<u>9045 pH</u>				
pH	7.49		NA	08/06/01 GP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Order #: 283430

Client Sample ID: SW381-2-0.6

Log Date: 08/02/21

Matrix: SOLID

Date Sampled: 07/31/2001

Time Sampled: 17:35

Analyte

Result

DLR

Units

Date/Analyst

7420 Lead by Atomic Absorption

Lead	10.3	10.0	mg/Kg	08/07/01	NK
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Order #: 283431

Client Sample ID: SW381-2-0.9

Log Date: 08/02/21

Matrix: SOLID

Date Sampled: 07/31/2001

Time Sampled: 17:38

Analyte

Result

DLR

Units

Date/Analyst

7420 Lead by Atomic Absorption

Lead	10.7	10.0	mg/Kg	08/07/01	NK
------	------	------	-------	----------	----

Order #: 283432

Client Sample ID: SW381-2-1.5

Log Date: 08/02/21

Matrix: SOLID

Date Sampled: 07/31/2001

Time Sampled: 17:45

Analyte

Result

DLR

Units

Date/Analyst

7420 Lead by Atomic Absorption

Lead	ND	10.0	mg/Kg	08/07/01	NK
------	----	------	-------	----------	----

9045 pH

pH	8.34		NA	08/06/01	GP
----	------	--	----	----------	----

Order #: 283433

Client Sample ID: SW381-1-0.0

Log Date: 08/02/21

Matrix: SOLID

Date Sampled: 07/31/2001

Time Sampled: 18:07

Analyte

Result

DLR

Units

Date/Analyst

7420 Lead by Atomic Absorption

Lead	144	10.0	mg/Kg	08/07/01	NK
------	-----	------	-------	----------	----

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Lead STLC 4.53 0.2 mg/L 08/10/01 NK

9045 pH

pH	7.77	NA	08/06/01	GP
----	------	----	----------	----

Order #: Client Sample ID: SW381-1-0.3 Log Date: 08/02/01
 Matrix: SOLID
 Date Sampled: 07/31/2001
 Time Sampled: 18:10

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	50.4	10.0	mg/Kg	08/07/01 NK
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7420 STLC Lead by AA

Lead STLC	0.96	0.2	mg/L	08/10/01 NK
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Order #: Client Sample ID: Decon Rinse Log Date: 08/02/01
 Matrix: WATER
 Date Sampled: 07/31/2001
 Time Sampled: 18:49

Analyte	Result	DLR	Units	Date/Analyst
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6010B ICP CAM Metals Only (16 Metals)

Lead	ND	0.005	mg/L	08/09/01 MS
------	----	-------	------	-------------

Order #: Client Sample ID: RW6-3-0.0 Log Date: 08/02/01
 Matrix: SOLID
 Date Sampled: 08/01/2001
 Time Sampled: 08:41

Analyte	Result	DLR	Units	Date/Analyst
---------	--------	-----	-------	--------------

1311/7420 TCLP Lead by AA

Lead TCLP	0.38	0.1	mg/L	08/22/01 MS
-----------	------	-----	------	-------------

7420 Lead by Atomic Absorption

Lead	3,140	100.0	mg/Kg	08/07/01 NK
------	-------	-------	-------	-------------

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Order #: 283437

Client Sample ID: RW6-3-0.3

Log Date: 08/02/02

Matrix: SOLID

Date Sampled: 08/01/2001

Time Sampled: 08:43

Analyte	Result	DLR	Units	Date/Analyst
---------	--------	-----	-------	--------------

7420 Lead by Atomic Absorption

Lead	49.6	10.0	mg/Kg	08/07/01 NK
------	------	------	-------	-------------

9045 pH

pH	7.69		NA	08/06/01 GP
----	------	--	----	-------------

Order #: 283438

Client Sample ID: RW6-3-0.6

Log Date: 08/02/02

Matrix: SOLID

Date Sampled: 08/01/2001

Time Sampled: 08:46

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	11.3	10.0	mg/Kg	08/07/01 NK
------	------	------	-------	-------------

Order #: 283439

Client Sample ID: RW6-3-0.9

Log Date: 08/02/02

Matrix: SOLID

Date Sampled: 08/01/2001

Time Sampled: 08:48

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	ND	10.0	mg/Kg	08/07/01 NK
------	----	------	-------	-------------

Order #: 283440

Client Sample ID: RW6-2-0.0

Log Date: 08/02/02

Matrix: SOLID

Date Sampled: 08/01/2001

Time Sampled: 09:22

Analyte	Result	DLR	Units	Date/Analyst
---------	--------	-----	-------	--------------

7420 Lead by Atomic Absorption

Lead	65.7	10.0	mg/Kg	08/07/01 NK
------	------	------	-------	-------------

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Lead STLC

1.13

0.2 mg/L

08/10/01 NK

Order #: 283441

Client Sample ID: RW6-2-0.3

Log Date: 08/01

Matrix: SOLID

Date Sampled: 08/01/2001

Time Sampled: 09:26

Analyte**Result****DLR****Units****Date/Analyst**7420 Lead by Atomic Absorption

Lead

39.4

10.0

mg/Kg

08/07/01 NK

Order #: 283442

Client Sample ID: RW6-2-0.6

Log Date: 08/01

Matrix: SOLID

Date Sampled: 08/01/2001

Time Sampled: 09:33

Analyte**Result****DLR****Units****Date/Analyst**7420 Lead by Atomic Absorption

Lead

45.0

10.0

mg/Kg

08/07/01 NK

9045 pH

pH

7.96

NA

08/06/01 GP

Order #: 283443

Client Sample ID: RW6-2-0.9

Log Date: 08/02

Matrix: SOLID

Date Sampled: 08/01/2001

Time Sampled: 09:36

Analyte**Result****DLR****Units****Date/Analyst**7420 Lead by Atomic Absorption

Lead

11.8

10.0

mg/Kg

08/07/01 NK

Order #: 283444

Client Sample ID: RW6-1-0.0

Log Date: 08/02

Matrix: SOLID

Date Sampled: 08/01/2001

Time Sampled: 09:58

Analyte**Result****DLR****Units****Date/Analyst**

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit

ASSOCIATED LABORATORIES Analytical Results Report

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7420 Lead by Atomic Absorption

Lead	104	10.0	mg/Kg	08/07/01	NK
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7420 STLC Lead by AA

Lead STLC	3.83	0.2	mg/L	08/10/01	NK
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9045 pH

pH	7.88		NA	08/06/01	GP
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Order #: 283445

Client Sample ID: RW6-1-0.3

Log Date: 08/02/2

Matrix: SOLID

Date Sampled: 08/01/2001

Time Sampled: 10:01

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	43.3	10.0	mg/Kg	08/07/01	NK
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Order #: 283446

Client Sample ID: RW6-1-0.6

Log Date: 08/02/2

Matrix: SOLID

Date Sampled: 08/01/2001

Time Sampled: 10:03

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	10.8	10.0	mg/Kg	08/07/01	NK
------	------	------	-------	----------	----

Order #: 283447

Client Sample ID: RW6-1-0.9

Log Date: 08/02/2

Matrix: SOLID

Date Sampled: 08/01/2001

Time Sampled: 10:06

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	18.8	10.0	mg/Kg	08/07/01	NK
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9045 pH

pH	8.60		NA	08/06/01	GP
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Matrix: SOLID
Date Sampled: 08/01/2001

Analyte	Result	DLR	Units	Date/Analyst
<u>7420 Lead by Atomic Absorption</u>				
Lead	42.8	10.0	mg/Kg	08/07/01 NK

Order #: Client Sample ID: SW348-2-0.0 Log Date: 08/02/01
Matrix: SOLID
Date Sampled: 08/01/2001
Time Sampled: 10:50

Analyte	Result	DLR	Units	Date/Analyst
<u>7420 Lead by Atomic Absorption</u>				
Lead	34.5	10.0	mg/Kg	08/07/01 NK

Order #: Client Sample ID: SW348-2-0.3 Log Date: 08/02/01
Matrix: SOLID
Date Sampled: 08/01/2001
Time Sampled: 10:54

Analyte	Result	DLR	Units	Date/Analyst
<u>7420 Lead by Atomic Absorption</u>				
Lead	35.7	10.0	mg/Kg	08/07/01 NK

<u>9045 pH</u>				
pH	8.07		NA	08/06/01 GP

Order #: Client Sample ID: SW348-2-0.6 Log Date: 08/02/01
Matrix: SOLID
Date Sampled: 08/01/2001
Time Sampled: 10:57

Analyte	Result	DLR	Units	Date/Analyst
<u>7420 Lead by Atomic Absorption</u>				
Lead	15.7	10.0	mg/Kg	08/07/01 NK

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Order #: 283452

Client Sample ID: SW348-2-0.9

Log Date: 08/02/20

Matrix: SOLID

Date Sampled: 08/01/2001

Time Sampled: 10:59

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	ND	10.0	mg/Kg	08/07/01 NK
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9045 pH

pH	8.56		NA	08/06/01 GP
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Order #: 283453

Client Sample ID: SW348-2-1.5

Log Date: 08/02/20

Matrix: SOLID

Date Sampled: 08/01/2001

Time Sampled: 11:04

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	12.2	10.0	mg/Kg	08/07/01 NK
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Order #: 283454

Client Sample ID: SW352-1-0.0

Log Date: 08/02/20

Matrix: SOLID

Date Sampled: 08/01/2001

Time Sampled: 11:25

Analyte	Result	DLR	Units	Date/Analyst
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6010B ICP CAM Metals Only (16 Metals)

Antimony	ND	15.0	mg/Kg	08/07/01 KN
Arsenic	9.76	0.5	mg/Kg	08/08/01 MS
Barium	178	5.0	mg/Kg	08/07/01 KN
Beryllium	ND	2.5	mg/Kg	08/07/01 KN
Cadmium	ND	2.5	mg/Kg	08/07/01 KN
Chromium	40.1	5.0	mg/Kg	08/07/01 KN
Cobalt	16.4	2.5	mg/Kg	08/07/01 KN
Copper	51.5	5.0	mg/Kg	08/07/01 KN
Lead	38.5	0.5	mg/Kg	08/08/01 MS
Molybdenum	ND	5.0	mg/Kg	08/07/01 KN
Nickel	33.8	7.5	mg/Kg	08/07/01 KN
Selenium	ND	0.5	mg/Kg	08/08/01 MS
Silver	ND	2.5	mg/Kg	08/07/01 KN

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Vanadium	70.0	2.5	mg/Kg	08/07/01	KN
Zinc	152	25.0	mg/Kg	08/07/01	KN

7471A Mercury in Solid

Mercury	ND	0.14	mg/Kg	08/07/01	MDJ
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9045 pH

pH	7.83	NA		08/06/01	GP
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Order #: Client Sample ID: SW352-1-0.3 Log Date: 08/02/01
 Matrix: SOLID
 Date Sampled: 08/01/2001
 Time Sampled: 11:28

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	26.8	10.0	mg/Kg	08/07/01	NK
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Order #: Client Sample ID: SW352-1-0.6 Log Date: 08/02/01
 Matrix: SOLID
 Date Sampled: 08/01/2001
 Time Sampled: 11:32

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	50.4	10.0	mg/Kg	08/07/01	NK
------	------	------	-------	----------	----

7420 STLC Lead by AA

Lead STLC	0.79	0.2	mg/L	08/10/01	NK
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9045 pH

pH	8.31	NA		08/06/01	GP
----	------	----	--	----------	----

Order #: Client Sample ID: SW352-1-0.9 Log Date: 08/02/01
 Matrix: SOLID
 Date Sampled: 08/01/2001
 Time Sampled: 11:38

Analyte	Result	DLR	Units	Date/Analyst
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



7420 Lead by Atomic Absorption

Lead	32.9	10.0	mg/Kg	08/07/01	NK
------	------	------	-------	----------	----

Order #:

Client Sample ID: SW352-1-DUP

Log Date: 08/02/2

Matrix: SOLID

Date Sampled: 08/01/2001

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	39.4	10.0	mg/Kg	08/07/01	NK
------	------	------	-------	----------	----

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



QA REPORT FORM (MS/MSD)

QC Sample: LR 78482-287741 QC# 082201tclp1
 Matrix: TCLP
 Prep. Date: 08/22/01
 Analysis Date: 08/22/01
 Lab ID#'s in Batch: LR 78482, 77444, 77387, 77351

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = mg/L

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	7420	0.025		0.20	0.205	0.212	90.0	93.5	3.4

NC = Not Calculated
 ND = "U" - Not Detected
 RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate
 %REC-MS&MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

% REC LIMITS = 75 -125
RPD LIMITS = 20

**ASSOCIATED LABORATORIES
 LCS/MB REPORT FORM**

LCS Source(s) : QC21-LOT#QC2/91/1;QC7-LOT7A92/1

Element	Method	Result	TRUE	%Rec	L.Limit	H.Limit	Method Blank	
							MB	ND
Lead	7420	1.868	2.00	93.4	80%	120%	0.050	U

Notes : RESULT = Sample Result; TRUE = True Value; %Rec = 100*Result/True
 L.LIMIT / H.LIMIT = Low / High Control Limits
 MB = Method Blank; ND = " U " for Non- Detected

ASSOCIATED LABORATORIES
QA REPORT FORM (MS/MSD)

QC Sample: LR 77351-283408

QC# 090401STLC1

Matrix: STLC - DI

Prep. Date: 09/04/01

Analysis Date: 09/04/01

Lab ID#'s in Batch: LR 77351

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = mg/L

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	7420	0.20	U	2.00	1.59	1.59	79.5	79.5	0.0

NC = Not Calculated

ND = "U" - Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS&MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

% REC LIMITS = 75 -125
RPD LIMITS = 20

QA REPORT FORM (MS/MSD)

QC Sample: LR 77444-283833

QC# 081301STLC1

Matrix: STLC

Prep. Date: 08/13/01

Analysis Date: 08/13/01

Lab ID#'s in Batch: LR 77444, 77351

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = mg/L

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	7420	0.20	U	2.00	2.09	2.20	104.5	110.0	5.1

NC = Not Calculated

ND = "U" - Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS&MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

<i>% REC LIMITS = 75 -125</i>
<i>RPD LIMITS = 20</i>

ASSOCIATED LABORATORIES
QA REPORT FORM (MS/MSD)

QC Sample: LR 77351-283420

QC# 081001STLC4

Matrix: STLC

Prep. Date: 08/10/01

Analysis Date: 08/10/01

Lab ID#'s in Batch: LR 77351

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = mg/L

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	7420	3.49		2.00	5.29	5.27	90.0	89.0	0.4

NC = Not Calculated

ND = "U" - Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS&MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

<i>% REC LIMITS = 75 -125</i>
<i>RPD LIMITS = 20</i>

QC Sample: LR 77351-283455

QC# 080701S05

Matrix: SOLID

Prep. Date: 08/07/01

Analysis Date: 08/07/01

Lab ID#'s in Batch: LR 77351

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = mg/Kg

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	7420	26.83		99.80	127.70	125.40	101.1	98.8	1.8

NC = Not Calculated

ND = "U" - Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS&MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

% REC LIMITS = 75 -125
RPD LIMITS = 20

LCS Source(s) QC21-LOT#QC2/91/1;QC7-LOT7A92/1

Element	Method	Result	TRUE	%Rec	L.Limit	H.Limit	Method Blank	
							MB	ND
Lead	7420	99.5	100	99.5	80%	120%	10.0	U

Notes : RESULT = Sample Result; TRUE = True Value; %Rec = 100*Result/True

L.LIMIT / H.LIMIT = Low / High Control Limits

MB = Preparation Blank; ND = " U " for Non- Detected

ASSOCIATED LABORATORIES
QA REPORT FORM (MS/MSD)

QC Sample: LR 77351-283442

QC# 080701S04

Matrix: SOLID

Prep. Date: 08/07/01

Analysis Date: 08/07/01

Lab ID#'s in Batch: LR 77351

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = mg/Kg

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	7420	44.95		99.50	140.30	137.80	95.8	93.3	1.8

NC = Not Calculated

ND = "U" - Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS&MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

% REC LIMITS = 75 -125
RPD LIMITS = 20

LCS Source(s) QC21-LOT#QC2/91/1;QC7-LOT7A92/1

Element	Method	Result	TRUE	%Rec	L.Limit	H.Limit	Method Blank	
							MB	ND
Lead	7420	102	100	102.0	80%	120%	10.0	U

Notes : RESULT = Sample Result; TRUE = True Value; %Rec = 100*Result/True

L.LIMIT / H.LIMIT = Low / High Control Limits

MB = Preparation Blank; ND = " U " for Non- Detected

QC Sample: LR 77351-283417

QC# 080701S03

Matrix: SOLID

Prep. Date: 08/07/01

Analysis Date: 08/07/01

Lab ID#'s in Batch: LR 77351

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = mg/Kg

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	7420	0.00	U	96.39	108.40	101.00	112.5	104.8	7.1

NC = Not Calculated

ND = "U" - Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS&MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

<i>% REC LIMITS = 75 -125</i>
<i>RPD LIMITS = 20</i>

LCS Source(s) QC21-LOT#QC2/91/1;QC7-LOT7A92/1

Element	Method	Result	TRUE	%Rec	L.Limit	H.Limit	Method Blank	
							MB	ND
Lead	7420	100	100	99.5	80%	120%	10.0	U

*Notes : RESULT = Sample Result; TRUE = True Value; %Rec = 100*Result/True*

L.LIMIT / H.LIMIT = Low / High Control Limits

MB = Preparation Blank; ND = " U " for Non- Detected

ASSOCIATED LABORATORIES

QA REPORT FORM (MS/MSD)

QC Sample: LR 77351-283401 QC# 080701S02

Matrix: SOLID

Prep. Date: 08/07/01

Analysis Date: 08/07/01

Lab ID#'s in Batch: LR 77351

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = mg/Kg

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	7420	172.80		99.70	256.80	252.10	84.3	79.5	1.8

NC = Not Calculated

ND = "U" - Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS&MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

% REC LIMITS = 75 -125
RPD LIMITS = 20

LCS Source(s) QC21-LOT#QC2/91/1;QC7-LOT7A92/1

Element	Method	Result	TRUE	%Rec	L.Limit	H.Limit	Method Blank	
							MB	ND
Lead	7420	99	100	99.0	80%	120%	10.0	U

Notes : RESULT = Sample Result; TRUE = True Value; %Rec = 100*Result/True

L.LIMIT / H.LIMIT = Low / High Control Limits

MB = Preparation Blank; ND = " U " for Non- Detected

QA REPORT FORM (MS/MSD)

QC Sample: LR 77351-283384
 Matrix: SOLID
 Prep. Date: 08/07/01
 Analysis Date: 08/07/01
 Lab ID#'s in Batch: LR 77351

QC# 080701S01

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = mg/Kg

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	7420	44.62		99.90	148.40	145.90	103.9	101.4	1.7

NC = Not Calculated

ND = "U" - Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS&MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

% REC LIMITS = 75 -125
RPD LIMITS = 20

LCS Source(s) QC21-LOT#QC2/91/1;QC7-LOT7A92/1

Element	Method	Result	TRUE	%Rec	L.Limit	H.Limit	Method Blank	
							MB	ND
Lead	7420	101	100	101.0	80%	120%	10.0	U

Notes : RESULT = Sample Result; TRUE = True Value; %Rec = 100*Result/True

L.LIMIT / H.LIMIT = Low / High Control Limits

MB = Preparation Blank; ND = "U" for Non- Detected

CHAIN OF CUSTODY and Analysis Request Form

Please
Fax to
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916-928-3341

Company: -
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1326 N. Market Boulevard
Sacramento, CA 95834-1912
Phone: (916) 928-3300 Fax: (916) 928-3341

Laboratory:
Associated Laboratories
806 N. Batavia, Orange, California 92868
Phone: (714) 771-6900
Fax: (714) 538-1209

Send Results To:
Don Bransford
IT Corporation
1326 N. Market Boulevard
Sacramento, CA 95834-1912

Project:
Interstate 405 Improvement Project
Location: Route 405, Los Angeles County
Project #: 829965
Contract: 43A0023 EA #: 07-119851

Sample ID:	Comments	Date	Time	Container	Total	Preserv- ative Used	Matrix	Analysis			TAT
								7000: Lead Only...	6010/7471: Title 22 Metals	9045: pH	
✓ RW10-2-0.0		9/31/00	852	glass jar	1	Ice	Soil	X			std
✓ RW10-2-0.3			900	glass jar	1	Ice	Soil			X	std
✓ 0.6			906	glass jar	1	Ice	Soil				std
✓ 0.9			909	glass jar	1	Ice	Soil			X	std
✓ RW10-1-0.0			931	glass jar	1	Ice	Soil			X	std
✓ 0.3			936	glass jar	1	Ice	Soil				std
✓ 0.6			940	glass jar	1	Ice	Soil			X	std
✓ 0.9			943	glass jar	1	Ice	Soil				std
✓ RW10-4-DUP				glass jar	1	Ice	Soil				std
✓ RW397-1-0.0			1038	glass jar	1	Ice	Soil			X	std
✓ 0.3			1047	glass jar	1	Ice	Soil				std
✓ 0.6			1050	glass jar	1	Ice	Soil			X	std
✓ 0.9			1053	glass jar	1	Ice	Soil			X	std
✓ 1.5			1057	glass jar	1	Ice	Soil				std
✓ RW397-DUP				glass jar	1	Ice	Soil				std
✓ RW397-0.0			1103	glass jar	1	Ice	Soil				std
✓ 0.3				glass jar	1	Ice	Soil			X	std
✓ 0.6	RENAMED TO RW397-2			glass jar	1	Ice	Soil				std
✓ 0.9				glass jar	1	Ice	Soil				std
✓ 1.5			1131	glass jar	1	Ice	Soil			X	std
✓ DUP				glass jar	1	Ice	Soil			X	std
✓ SW397-1-0.0			1138	glass jar	1	Ice	Soil				std
✓ 0.3			1140	glass jar	1	Ice	Soil				std
✓ 0.6			1143	glass jar	1	Ice	Soil				std
✓ 0.9			1147	glass jar	1	Ice	Soil			X	std
✓ 1.5			1150	glass jar	1	Ice	Soil				std
✓ SW397-1-DUP				glass jar	1	Ice	Soil				std
✓ SW397-2-0.0			1210	glass jar	1	Ice	Soil				std
✓ 0.3			1214	glass jar	1	Ice	Soil				std
✓ 0.6			1217	glass jar	1	Ice	Soil			X	std

Notes:

Relinquished By: *Kathleen Waud*
Print Name: KATHLEEN WAUDO
Date: 8/11/01
Time: 12:16

Relinquished By: *Laura D Jones*
Name: LAURA D JONES SA
Date: 8-1-01
Time: 4:15

Received By: *Laura D Jones*
Print Name: LAURA D JONES
Date: 8-1-01
Time: 12:15

Received By: *Laura D Jones*
Print Name: LAURA D JONES
Date: 8-1-01
Time: 12:20

CHAIN OF CUSTODY and Analysis Request Form

Company: IT Corporation
1326 N. Market Boulevard
Sacramento, CA 95834-1912
Phone: (916) 928-3300 Fax: (916) 928-3341

Laboratory: Associated Laboratories
806 N. Batavia, Orange, California 92868
Phone: (714) 771-6900
Fax: (714) 538-1209

Send Results To:
Don Bransford
IT Corporation
1326 N. Market Boulevard
Sacramento, CA 95834-1912

Project: Interstate 405 Improvement Project
Location: Route 405, Los Angeles County
Project #: 829965
Contract: 43A0023

EA #: 07-119851

Sample ID:	Comments	Date	Time	Container	Total	Preservative Used	Matrix	Analysis			TAT
								6010: Lead Only	6010/7471: Title 22 Metals	9045: pH	
1 SW387-2-0.9		7/21/01	1219	glass jar	1	Ice	Soil	X			std
2 ↓ 0.5			1225	glass jar	1	Ice	Soil	X			std
3 RW8-2-0.0			1254	glass jar	1	Ice	Soil	X			std
4 ↓ 0.3			1257	glass jar	1	Ice	Soil			X	std
5 ↓ 0.6			1259	glass jar	1	Ice	Soil			X	std
6 ↓ 0.9			1303	glass jar	1	Ice	Soil			X	std
7 RW8-1-0.0			1311	glass jar	1	Ice	Soil			X	std
8 ↓ 0.3			1313	glass jar	1	Ice	Soil			X	std
9 ↓ 0.6			1315	glass jar	1	Ice	Soil			X	std
10 ↓ 0.9			1319	glass jar	1	Ice	Soil			X	std
11 RW8-1-DUP				glass jar	1	Ice	Soil			X	std
12 SW387-2-0.0				glass jar	1	Ice	Soil			X	std
13 ↓ 0.3			1512	glass jar	1	Ice	Soil			X	std
14 ↓ 0.6			1514	glass jar	1	Ice	Soil		X		std
15 ↓ 0.9			1510	glass jar	1	Ice	Soil	X		X	std
16 ↓ 1.5			1520	glass jar	1	Ice	Soil			X	std
17 SW387-1-0.0			1524	glass jar	1	Ice	Soil			X	std
18 ↓ 0.3			1549	glass jar	1	Ice	Soil			X	std
19 ↓ 0.6			1551	glass jar	1	Ice	Soil			X	std
20 ↓ 0.9			1554	glass jar	1	Ice	Soil			X	std
21 ↓ 1.5			1556	glass jar	1	Ice	Soil			X	std
22 SW387-1-DUP			1604	glass jar	1	Ice	Soil			X	std
23 RW7-2-0.0				glass jar	1	Ice	Soil			X	std
24 ↓ 0.3			1625	glass jar	1	Ice	Soil			X	std
25 ↓ 0.6			1627	glass jar	1	Ice	Soil		X		std
26 ↓ 0.9			1629	glass jar	1	Ice	Soil			X	std
27 RW7-1-0.0			1631	glass jar	1	Ice	Soil			X	std
28 ↓ 0.3			1653	glass jar	1	Ice	Soil			X	std
29 ↓ 0.6			1655	glass jar	1	Ice	Soil			X	std
30 ↓ 0.9			1657	glass jar	1	Ice	Soil			X	std
			1700	glass jar	1	Ice	Soil			X	std

Notes:

Relinquished By: *Kathleen Waldo*
Print Name: KATHLEEN WALDO
Date: 8/1/01
Time: 12:16

Received By: *LAWRENCE J. SCIVELLA*
Print Name: LAWRENCE J. SCIVELLA
Date: 8-1-01
Time: 12:15

Relinquished By: *LAWRENCE J. SCIVELLA*
Print Name: LAWRENCE J. SCIVELLA
Date: 8-1-01
Time: 4:15

Received By: *KATHLEEN WALDO*
Print Name: KATHLEEN WALDO
Date: 8-1-01
Time: 12:15

CHAIN OF CUSTODY and Analysis Request Form

Company:
IT Corporation
1326 N. Market Boulevard
Sacramento, CA 95834-1912
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Laboratory:
Associated Laboratories
806 N. Batavia, Orange, California 92868
Phone: (714) 771-6900
Fax: (714) 538-1209

Send Results To:
Don Bransford
IT Corporation
1326 N. Market Boulevard
Sacramento, CA 95834-1912

Project:
Interstate 405 Improvement Project
Location: Route 405, Los Angeles County
Project #: 829965
Contract 43A0023

EA #: 07-119851

Sample ID:	Comments	Date	Time	Container	Total	Preserv- ative Used	Matrix	Analysis			TAT
								6010: Lead Only	6010/7471: Title 22 Metals	9045: pH	
RW7-1-DUP		7/3/01		glass jar	1	Ice	Soil	X			std
SW381-2-0.0			1729	glass jar	1	Ice	Soil				std
0.3			1732	glass jar	1	Ice	Soil			X	std
0.6			1735	glass jar	1	Ice	Soil				std
0.9			1738	glass jar	1	Ice	Soil				std
1.5			1745	glass jar	1	Ice	Soil			X	std
SW381-1-0.0			1807	glass jar	1	Ice	Soil	X		X	std
0.3	Release 7/20/01 3 HOURS		1810	glass jar	1	Ice	Soil	X			std
0.6				glass jar	1	Ice	Soil				std
0.9				glass jar	1	Ice	Soil				std
1.5				glass jar	1	Ice	Soil				std
SW381-1-DUP				glass jar	1	Ice	Soil				std
DECON RING			1849	glass jar	1	Ice	Soil	X			std
RW2-0.0		8/1/01	815	glass jar	1	Ice	Soil				std
0.3			818	glass jar	1	Ice	Soil				std
0.6			820	glass jar	1	Ice	Soil				std
0.9			822	glass jar	1	Ice	Soil				std
RW63-0.0		8/1/01	841	glass jar	1	Ice	Soil	X			std
0.3			843	glass jar	1	Ice	Soil	X		X	std
0.6			846	glass jar	1	Ice	Soil	X			std
0.9			848	glass jar	1	Ice	Soil	X			std
Blank out				glass jar	1	Ice	Soil				std
				glass jar	1	Ice	Soil				std
				glass jar	1	Ice	Soil				std
				glass jar	1	Ice	Soil				std
				glass jar	1	Ice	Soil				std
				glass jar	1	Ice	Soil				std
				glass jar	1	Ice	Soil				std
				glass jar	1	Ice	Soil				std
				glass jar	1	Ice	Soil				std
				glass jar	1	Ice	Soil				std

Notes:

Relinquished By:
Print Name: *Kathleen Ward*
Date: 8/1/01
Time: 1216

Relinquished By:
Print Name: *Lauris Jones*
Date: 8-1-01
Time: 1116

Received By:
Print Name: *Lauris Jones*
Date:
Time: 8-1-01
12:15

Received By:
Print Name: *Lauris Jones*
Date: 8/1/01
Time: 1720

CHAIN OF CUSTODY and Analysis Request Form

Company:
IT Corporation
1326 N. Market Boulevard
Sacramento, CA 95834-1912
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Laboratory:
Associated Laboratories
806 N. Batavia, Orange, California 92868
Phone: (714) 771-6900
Fax: (714) 538-1209

Send Results To:
Don Bransford
IT Corporation
1326 N. Market Boulevard
Sacramento, CA 95834-1912

Project:
Interstate 405 Improvement Project
Location: Route 405, Los Angeles County
Project #: 829965
Contract: 43A0023 EA #: 07-119851

Sample ID:	Comments	Date	Time	Container	Total	Preservative Used	Matrix	Analysis			TAT
								6010: Lead Only	6010/7471: Title 22 Metals	9045: pH	
1 RW6-2-0.0		8/1/01	922	glass jar	1	Ice	Soil	X			std
2 RW6-2-0.3			924	glass jar	1	Ice	Soil				std
3 RW6-2-0.6			933	glass jar	1	Ice	Soil			X	std
4 RW6-2-0.9			936	glass jar	1	Ice	Soil				std
5 RW6-1-0.0			958	glass jar	1	Ice	Soil			X	std
6 RW6-1-0.3			1001	glass jar	1	Ice	Soil				std
7 RW6-1-0.6			1003	glass jar	1	Ice	Soil				std
8 RW6-1-0.9			1006	glass jar	1	Ice	Soil			X	std
9 RW6-1-DUP				glass jar	1	Ice	Soil			X	std
10 SW358-2-0.0			1050	glass jar	1	Ice	Soil				std
11 SW358-2-0.3			1054	glass jar	1	Ice	Soil			X	std
12 SW358-2-0.6			1059	glass jar	1	Ice	Soil				std
13 SW358-2-0.9			1059	glass jar	1	Ice	Soil			X	std
14 SW358-2-1.5			1104	glass jar	1	Ice	Soil				std
15 SW358-1-0.0			1125	glass jar	1	Ice	Soil		X	X	std
16 SW358-1-0.3			1128	glass jar	1	Ice	Soil			X	std
17 SW358-1-0.6			1132	glass jar	1	Ice	Soil			X	std
18 SW358-1-0.9			1138	glass jar	1	Ice	Soil				std
19 SW358-1-1.5	REMOVED (UNITS)			glass jar	1	Ice	Soil				std
20 SW358-1-DUP				glass jar	1	Ice	Soil	X			std
21				glass jar	1	Ice	Soil				std
22				glass jar	1	Ice	Soil				std
23				glass jar	1	Ice	Soil				std
24				glass jar	1	Ice	Soil				std
25				glass jar	1	Ice	Soil				std
26				glass jar	1	Ice	Soil				std
27				glass jar	1	Ice	Soil				std
28				glass jar	1	Ice	Soil				std
29				glass jar	1	Ice	Soil				std
30				glass jar	1	Ice	Soil				std

Notes:

Relinquished By: *Kathleen Waleto*
Print Name: *KATHLEEN WAUDO*
Date: *8/1/01*
Time: *12:16*

Received By: *Robert Fagon Jr.*
Print Name: *ROBERT FAGON JR.*
Date: *8-1-01*
Time: *12:15*

Relinquished By: *Lawrence D. Jones Jr.*
Print Name: *LAWRENCE D. JONES JR.*
Date: *8-1-01*
Time: *4:15*

Received By: *Ken Hulsey*
Print Name: *KEN HULSEY*
Date: *8-1-01*
Time: *1:20*

Cooler Receipt Form

Client: 27 Corporation Project: 405 Improvement
Cooler Received: 87-01 Cooler Opened: 87-01 By: Ken Morisy
Signed: [Signature]

Was cooler scanned for presence of radioactivity, and noted if found? Yes / No

Were custody seals present on outside of cooler? Yes / No

a: If Yes, were they intact? Yes / No

b: Were signature and date correct? Yes / No

Were custody papers completely filled out? Yes / No

Did you sign and date the custody papers in the appropriate place? Yes / No

Was a shippers packing slip attached to the cooler? Yes / No

What kind of packing material was used? Ice

Was sufficient ice used? Yes / No Temperature: 2.3° Date: 8-1-01

Were all bottles sealed in plastic bags? Yes / No

Did all bottles arrive intact? Yes / No

Were all bottles labeled correctly? (ID, Analysis, Dates, Times) Yes / No

Were the correct containers included for the tests required? Yes / No

Were all VOA vials checked for headspace? NA / Yes / No

Was sufficient volume of sample sent in all containers? Yes / No

Were correct preservatives used? Yes / No

Approved by: [Signature] Date: 8-1-01

If not approved: Name of person contacted _____ Date: _____



ASSOCIATED LABORATORIES

806 North Batavia - Orange, California 92868 - 714/771-6900

FAX 714/538-1209

CLIENT IT Corporation (9493)
ATTN: Don Bransford
1236 N. Market Boulevard
Sacramento, CA 95834-1912

LAB REQUEST 77444

REPORTED 08/22/2001

RECEIVED 08/02/2001

PROJECT #829965
Interstate 405 Improvement Project

SUBMITTER Client

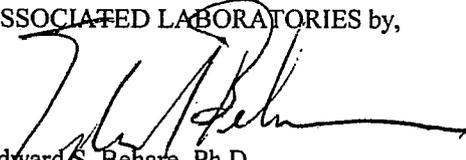
COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

<u>Order No.</u>	<u>Client Sample Identification</u>
283782	SW376-1-0.0
283783	SW376-1-0.3
283784	SW376-1-0.6
283785	SW376-1-0.9
283786	SW376-1-1.5
283787	SW376-1-DUP
283788	SW376-2-0.0
283789	SW376-2-0.3
283790	SW376-2-0.6
283791	SW376-2-0.9
283792	SW376-2-1.5
283793	RW2-1-0.0

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,


Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

CLIENT IT Corporation (9493)
ATTN: Don Bransford
1236 N. Market Boulevard
Sacramento, CA 95834-1912

LAB REQUEST 77444

REPORTED 08/22/2001
RECEIVED 08/02/2001

PROJECT #829965
Interstate 405 Improvement Project

SUBMITTER Client

COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

<u>Order No.</u>	<u>Client Sample Identification</u>
283794	RW2-1-0.3
283795	RW2-1-0.6
283796	RW2-1-0.9
283797	RW2-1-DUP
283798	SW384-1-0.0
283799	SW384-1-0.3
283800	SW384-1-0.6
283801	SW384-1-0.9
283802	SW384-1-1.5
283803	SW384-1-DUP
283804	SW384-2-0.0
283805	SW384-2-0.3
283806	SW384-2-0.6
283807	SW384-2-0.9
283808	SW384-2-1.5
283809	SW384-3-0.0
283810	SW384-3-0.3
283811	SW384-3-0.6
283812	SW384-3-0.9

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ASSOCIATED LABORATORIES by,



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Vice President

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CLIENT IT Corporation
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Sacramento, CA 95834-1912

(9493)

LAB REQUEST 77444

REPORTED 08/22/2001

RECEIVED 08/02/2001

PROJECT #829965
Interstate 405 Improvement Project

SUBMITTER Client

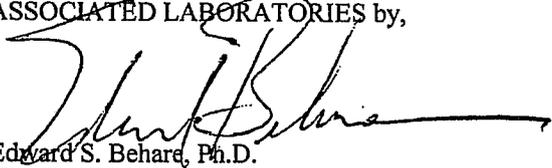
COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

<u>Order No.</u>	<u>Client Sample Identification</u>
283813	SW384-3-1.5
283814	SW384-4-0.0
283815	SW384-4-0.3
283816	SW384-4-0.6
283817	SW384-4-0.9
283818	SW384-4-1.5
283819	SW384-5-0.0
283820	SW384-5-0.3
283821	SW384-5-0.6
283822	SW384-5-0.9
283823	SW384-5-1.5
283824	RW2-2-0.0
283825	RW2-2-0.3
283826	RW2-2-0.6
283827	RW2-2-0.9
283828	RW3-1-0.0
283829	RW3-1-0.3
283830	RW3-1-0.6
283831	RW3-1-0.9

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,


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Vice President

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Environmental

CLIENT IT Corporation (9493)
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Sacramento, CA 95834-1912

LAB REQUEST 77444

REPORTED 08/22/2001

RECEIVED 08/02/2001

PROJECT #829965
Interstate 405 Improvement Project

SUBMITTER Client

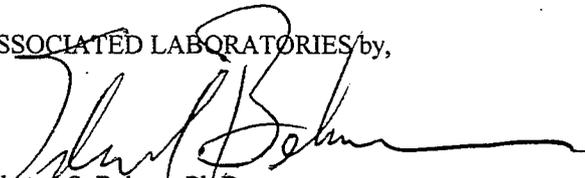
COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

<u>Order No.</u>	<u>Client Sample Identification</u>
283832	RW3-1-DUP
283833	RW3-2-0.0
283834	RW3-2-0.3
283835	RW3-2-0.6
283836	RW3-2-0.9
283837	Decon Rinse-2
283838	SW348-1-0.0
283839	SW348-1-0.3
283840	SW348-1-0.6
283841	SW348-1-0.9
283842	SW348-1-1.5
283843	SW348-1-DUP
283844	SW352-2-0.0
283845	SW352-2-0.3
283846	SW352-2-0.6
283847	SW352-2-0.9
283848	SW352-2-1.5
283849	SW366-1-0.0
283850	SW366-1-0.3

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,



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Vice President

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

CLIENT IT Corporation
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1236 N. Market Boulevard
Sacramento, CA 95834-1912

(9493)

LAB REQUEST 77444

REPORTED 08/22/2001

RECEIVED 08/02/2001

PROJECT #829965
Interstate 405 Improvement Project

SUBMITTER Client

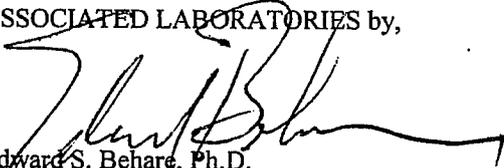
COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

<u>Order No.</u>	<u>Client Sample Identification</u>
283851	SW366-1-0.6
283852	SW366-1-0.9
283853	SW366-1-1.5
283854	SW366-1-DUP

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,


Edward S. Behare, Ph.D.
Vice President

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TESTING & CONSULTING
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Environmental

Order #: 283782

Client Sample ID: SW376-1-0.0

Log Date: 08/03/2

Matrix: SOLID

Date Sampled: 08/01/2001

Time Sampled: 12:59

Analyte	Result	DLR	Units	Date/Analyst
<u>7420 Lead by Atomic Absorption</u>				
Lead	260	10.0	mg/Kg	08/07/01 KN
<u>7420 DI-STLC Lead by AA</u>				
Lead DI-STLC	ND	0.2	mg/L	08/13/01 NK
<u>7420 STLC Lead by AA</u>				
Lead STLC	8.57	0.2	mg/L	08/10/01 NK
<u>9045 pH</u>				
pH	6.14		NA	08/06/01 GP

Order #: 283783

Client Sample ID: SW376-1-0.3

Log Date: 08/03/2

Matrix: SOLID

Date Sampled: 08/01/2001

Time Sampled: 13:00

Analyte	Result	DLR	Units	Date/Analyst
<u>7420 Lead by Atomic Absorption</u>				
Lead	18.4	10.0	mg/Kg	08/07/01 KN
<u>Order #: 283784</u>				
<u>Client Sample ID: SW376-1-0.6</u>				
<u>Log Date: 08/03/2</u>				
<u>Matrix: SOLID</u>				
<u>Date Sampled: 08/01/2001</u>				
<u>Time Sampled: 13:01</u>				
Analyte	Result	DLR	Units	Date/Analyst
<u>7420 Lead by Atomic Absorption</u>				
Lead	ND	10.0	mg/Kg	08/07/01 KN
<u>9045 pH</u>				
pH	6.03		NA	08/06/01 GP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Matrix: SOLID
Date Sampled: 08/01/2001
Time Sampled: 13:06

Log Date: 08/03/01

Analyte	Result	DLR	Units	Date/Analyst
<u>7420 Lead by Atomic Absorption</u>				

Lead	14.5	10.0	mg/Kg	08/07/01 KN
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Order #: Client Sample ID: SW376-1-1.5 Log Date: 08/03/01
Matrix: SOLID
Date Sampled: 08/01/2001
Time Sampled: 13:15

Analyte	Result	DLR	Units	Date/Analyst
<u>7420 Lead by Atomic Absorption</u>				

Lead	ND	10.0	mg/Kg	08/07/01 KN
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Order #: Client Sample ID: SW376-1-DUP Log Date: 08/03/01
Matrix: SOLID
Date Sampled: 08/01/2001

Analyte	Result	DLR	Units	Date/Analyst
<u>7420 Lead by Atomic Absorption</u>				

Lead	30.0	10.0	mg/Kg	08/07/01 KN
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Order #: Client Sample ID: SW376-2-0.0 Log Date: 08/03/01
Matrix: SOLID
Date Sampled: 08/01/2001
Time Sampled: 13:21

Analyte	Result	DLR	Units	Date/Analyst
<u>7420 Lead by Atomic Absorption</u>				

Lead	271	10.0	mg/Kg	08/07/01 KN
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7420 DI-STLC Lead by AA

Lead DI-STLC	ND	0.2	mg/L	08/13/01 NK
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



7420 STLC Lead by AA

Lead STLC	10.0	0.2	mg/L	08/10/01	NK
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Order #:

Client Sample ID: SW376-2-0.3

Log Date: 08/03/01

Matrix: SOLID

Date Sampled: 08/01/2001

Time Sampled: 13:24

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	14.3	10.0	mg/Kg	08/07/01	KN
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9045 pH

pH	6.81		NA	08/06/01	GP
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Order #:

Client Sample ID: SW376-2-0.6

Log Date: 08/03/01

Matrix: SOLID

Date Sampled: 08/01/2001

Time Sampled: 13:27

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	10.4	10.0	mg/Kg	08/07/01	KN
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Order #:

Client Sample ID: SW376-2-0.9

Log Date: 08/03/01

Matrix: SOLID

Date Sampled: 08/01/2001

Time Sampled: 13:30

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	ND	10.0	mg/Kg	08/07/01	KN
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9045 pH

pH	7.61		NA	08/06/01	GP
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Matrix: SOLID
Date Sampled: 08/01/2001
Time Sampled: 13:39

Analyte	Result	DLR	Units	Date/Analyst
7420 Lead by Atomic Absorption				
Lead	ND	10.0	mg/Kg	08/07/01 KN

Order #: Client Sample ID: RW2-1-0.0 Log Date: 08/03/2
Matrix: SOLID
Date Sampled: 08/01/2001
Time Sampled: 14:29

Analyte	Result	DLR	Units	Date/Analyst
1311/7420 TCLP Lead by AA				
Lead TCLP	0.287	0.1	mg/L	08/22/01 KN

6010B ICP CAM Metals Only (16 Metals)

Antimony	4.04	3.00	mg/Kg	08/07/01 KN
Arsenic	4.32	5.0	mg/Kg	08/08/01 MS
Barium	203	1.00	mg/Kg	08/07/01 KN
Beryllium	0.50	0.50	mg/Kg	08/07/01 KN
Cadmium	1.67	0.50	mg/Kg	08/07/01 KN
Chromium	29.0	1.00	mg/Kg	08/07/01 KN
Cobalt	14.0	0.50	mg/Kg	08/07/01 KN
Copper	64.8	1.00	mg/Kg	08/07/01 KN
Molybdenum	ND	1.00	mg/Kg	08/07/01 KN
Nickel	25.7	1.50	mg/Kg	08/07/01 KN
Selenium	ND	5.0	mg/Kg	08/08/01 MS
Silver	ND	0.50	mg/Kg	08/07/01 KN
Thallium	ND	10.0	mg/Kg	08/08/01 MS
Vanadium	50.7	0.50	mg/Kg	08/07/01 KN
Zinc	297	5.00	mg/Kg	08/07/01 KN

7420 Lead by Atomic Absorption

Lead	1,280	100.0	mg/Kg	08/07/01 KN
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7420 STLC Lead by AA

Lead STLC	28.6	2.0	mg/L	08/10/01 NK
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7471A Mercury in Solid

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Mercury | 0.14 | 0.14 mg/Kg | 08/07/01 MDJ

9045 pH

pH | 7.25 | NA | 08/06/01 GP

Order #: Client Sample ID: RW2-1-0.3 Log Date: 08/03/2
Matrix: SOLID
Date Sampled: 08/01/2001
Time Sampled: 14:34

Analyte Result DLR Units Date/Analyst

7420 Lead by Atomic Absorption

Lead | 81.8 | 10.0 mg/Kg | 08/07/01 KN

7420 STLC Lead by AA

Lead STLC | 2.46 | 0.2 mg/L | 08/10/01 NK

Order #: Client Sample ID: RW2-1-0.6 Log Date: 08/03/2
Matrix: SOLID
Date Sampled: 08/01/2001
Time Sampled: 14:40

Analyte Result DLR Units Date/Analyst

7420 Lead by Atomic Absorption

Lead | 13.6 | 10.0 mg/Kg | 08/07/01 KN

9045 pH

pH | 8.00 | NA | 08/06/01 GP

Order #: Client Sample ID: RW2-1-0.9 Log Date: 08/03/2
Matrix: SOLID
Date Sampled: 08/01/2001
Time Sampled: 14:46

Analyte Result DLR Units Date/Analyst

7420 Lead by Atomic Absorption

Lead | 13.5 | 10.0 mg/Kg | 08/07/01 KN

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Matrix: SOLID
Date Sampled: 08/01/2001

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	77.5	10.0	mg/Kg	08/07/01 KN
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7420 STLC Lead by AA

Lead STLC	3.28	0.2	mg/L	08/10/01 NK
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Order #: Client Sample ID: SW384-1-0.0 Log Date: 08/02/01
Matrix: SOLID
Date Sampled: 08/01/2001
Time Sampled: 15:04

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	234	10.0	mg/Kg	08/07/01 KN
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7420 DI-STLC Lead by AA

Lead DI-STLC	ND	0.2	mg/L	08/13/01 NK
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7420 STLC Lead by AA

Lead STLC	9.19	0.2	mg/L	08/10/01 NK
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9045 pH

pH	6.07		NA	08/06/01 GP
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Order #: Client Sample ID: SW384-1-0.3 Log Date: 08/03/01
Matrix: SOLID
Date Sampled: 08/01/2001
Time Sampled: 15:05

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	10.9	10.0	mg/Kg	08/07/01 KN
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Order #: 283800

Client Sample ID: SW384-1-0.6

Log Date: 08/03/20

Matrix: SOLID

Date Sampled: 08/01/2001

Time Sampled: 15:07

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	56.1	10.0	mg/Kg	08/07/01 KN
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7420 STLC Lead by AA

Lead STLC	2.07	0.2	mg/L	08/10/01 NK
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Order #: 283801

Client Sample ID: SW384-1-0.9

Log Date: 08/03/20

Matrix: SOLID

Date Sampled: 08/01/2001

Time Sampled: 15:10

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	ND	10.0	mg/Kg	08/07/01 KN
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Order #: 283802

Client Sample ID: SW384-1-1.5

Log Date: 08/03/20

Matrix: SOLID

Date Sampled: 08/01/2001

Time Sampled: 15:15

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	21.3	10.0	mg/Kg	08/07/01 KN
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Order #: 283803

Client Sample ID: SW384-1-DUP

Log Date: 08/03/20

Matrix: SOLID

Date Sampled: 08/01/2001

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	39.6	10.0	mg/Kg	08/07/01 KN
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Matrix: SOLID
Date Sampled: 08/01/2001
Time Sampled: 15:44

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	665	10.0	mg/Kg	08/07/01 KN
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7420 DI-STLC Lead by AA

Lead DI-STLC	ND	0.2	mg/L	08/13/01 NK
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7420 STLC Lead by AA

Lead STLC	17.1	2.0	mg/L	08/10/01 NK
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Order #: Client Sample ID: SW384-2-0.3 Log Date: 08/01/2001
Matrix: SOLID
Date Sampled: 08/01/2001
Time Sampled: 15:46

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	42.0	10.0	mg/Kg	08/07/01 KN
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9045 pH

pH	7.95		NA	08/06/01 GP
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Order #: Client Sample ID: SW384-2-0.6 Log Date: 08/01/2001
Matrix: SOLID
Date Sampled: 08/01/2001
Time Sampled: 15:51

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	14.7	10.0	mg/Kg	08/07/01 KN
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Order #: 283807

Client Sample ID: SW384-2-0.9

Log Date: 08/03/20

Matrix: SOLID

Date Sampled: 08/01/2001

Time Sampled: 15:54

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	ND	10.0	mg/Kg	08/07/01 KN
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Order #: 283808

Client Sample ID: SW384-2-1.5

Log Date: 08/03/20

Matrix: SOLID

Date Sampled: 08/01/2001

Time Sampled: 15:59

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	189	10.0	mg/Kg	08/07/01 KN
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7420 STLC Lead by AA

Lead STLC	0.69	0.2	mg/L	08/10/01 NK
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Order #: 283809

Client Sample ID: SW384-3-0.0

Log Date: 08/03/20

Matrix: SOLID

Date Sampled: 08/01/2001

Time Sampled: 16:16

Analyte	Result	DLR	Units	Date/Analyst
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1311/7420 TCLP Lead by AA

Lead TCLP	0.354	0.1	mg/L	08/22/01 KN
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7420 Lead by Atomic Absorption

Lead	2,040	100.0	mg/Kg	08/07/01 KN
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Order #: 283810

Client Sample ID: SW384-3-0.3

Log Date: 08/03/20

Matrix: SOLID

Date Sampled: 08/01/2001

Time Sampled: 16:18

Analyte	Result	DLR	Units	Date/Analyst
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Lead 11.4 10.0 mg/Kg 08/07/01 KN

Order #: 283811 Client Sample ID: SW384-3-0.6 Log Date: 08/03
Matrix: SOLID
Date Sampled: 08/01/2001
Time Sampled: 16:23

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	13.8	10.0	mg/Kg	08/07/01 KN
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Order #: 283812 Client Sample ID: SW384-3-0.9 Log Date: 08/03
Matrix: SOLID
Date Sampled: 08/01/2001
Time Sampled: 16:26

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	20.5	10.0	mg/Kg	08/07/01 KN
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9045 pH

pH	7.92		NA	08/06/01 GP
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Order #: 283813 Client Sample ID: SW384-3-1.5 Log Date: 08/03
Matrix: SOLID
Date Sampled: 08/01/2001
Time Sampled: 16:31

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	16.4	10.0	mg/Kg	08/07/01 KN
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Order #: 283814 Client Sample ID: SW384-4-0.0 Log Date: 08/03
Matrix: SOLID
Date Sampled: 08/01/2001
Time Sampled: 16:55

Analyte	Result	DLR	Units	Date/Analyst
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



1311/7420 TCLP Lead by AA

Lead TCLP	0.259	0.1	mg/L	08/22/01	KN
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7420 Lead by Atomic Absorption

Lead	3,030	100.0	mg/Kg	08/07/01	KN
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Order #:

Client Sample ID: SW384-4-0.3

Log Date: 08/03/2

Matrix: SOLID

Date Sampled: 08/01/2001

Time Sampled: 16:56

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	18.3	10.0	mg/Kg	08/07/01	KN
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Order #:

Client Sample ID: SW384-4-0.6

Log Date: 08/03/2

Matrix: SOLID

Date Sampled: 08/01/2001

Time Sampled: 16:58

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	44.6	10.0	mg/Kg	08/07/01	KN
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Order #:

Client Sample ID: SW384-4-0.9

Log Date: 08/03/2

Matrix: SOLID

Date Sampled: 08/01/2001

Time Sampled: 17:01

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	32.6	10.0	mg/Kg	08/07/01	KN
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Order #:

Client Sample ID: SW384-4-1.5

Log Date: 08/03/2

Matrix: SOLID

Date Sampled: 08/01/2001

Time Sampled: 17:06

Analyte	Result	DLR	Units	Date/Analyst
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Lead	14.5	10.0	mg/Kg	08/07/01	KN
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Order #: Client Sample ID: SW384-5-0.0 Log Date: 08/03
 Matrix: SOLID
 Date Sampled: 08/01/2001
 Time Sampled: 17:19

Analyte	Result	DLR	Units	Date/Analyst
<u>7420 Lead by Atomic Absorption</u>				
Lead	682	20.0	mg/Kg	08/07/01 KN
<u>7420 DI-STLC Lead by AA</u>				
Lead DI-STLC	ND	0.2	mg/L	08/13/01 NK
<u>7420 STLC Lead by AA</u>				
Lead STLC	16.2	2.0	mg/L	08/10/01 NK

Order #: Client Sample ID: SW384-5-0.3 Log Date: 08/03/2
 Matrix: SOLID
 Date Sampled: 08/01/2001
 Time Sampled: 17:21

Analyte	Result	DLR	Units	Date/Analyst
<u>7420 Lead by Atomic Absorption</u>				
Lead	19.9	10.0	mg/Kg	08/07/01 KN

Order #: Client Sample ID: SW384-5-0.6 Log Date: 08/03/2
 Matrix: SOLID
 Date Sampled: 08/01/2001
 Time Sampled: 17:23

Analyte	Result	DLR	Units	Date/Analyst
<u>7420 Lead by Atomic Absorption</u>				
Lead	11.0	10.0	mg/Kg	08/07/01 KN

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Order #: 283822

Client Sample ID: SW384-5-0.9

Log Date: 08/03/20

Matrix: SOLID

Date Sampled: 08/01/2001

Time Sampled: 17:28

Analyte	Result	DLR	Units	Date/Analyst
7420 Lead by Atomic Absorption				
Lead	29.8	10.0	mg/Kg	08/07/01 KN

Order #: 283823

Client Sample ID: SW384-5-1.5

Log Date: 08/03/20

Matrix: SOLID

Date Sampled: 08/01/2001

Time Sampled: 17:32

Analyte	Result	DLR	Units	Date/Analyst
7420 Lead by Atomic Absorption				
Lead	76.8	10.0	mg/Kg	08/07/01 KN

7420 STLC Lead by AA

Lead STLC	0.32	0.2	mg/L	08/10/01 NK
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9045 pH

pH	8.09		NA	08/06/01 GP
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Order #: 283824

Client Sample ID: RW2-2-0.0

Log Date: 08/03/20

Matrix: SOLID

Date Sampled: 08/01/2001

Time Sampled: 17:46

Analyte	Result	DLR	Units	Date/Analyst
1311/7420 TCLP Lead by AA				
Lead TCLP	0.456	0.1	mg/L	08/22/01 KN

7420 Lead by Atomic Absorption

Lead	3,210	100.0	mg/Kg	08/07/01 KN
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Matrix: SOLID
Date Sampled: 08/01/2001
Time Sampled: 17:48

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	152	10.0	mg/Kg	08/07/01 KN
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7420 STLC Lead by AA

Lead STLC	ND	0.2	mg/L	08/10/01 NK
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9045 pH

pH	7.35	NA		08/06/01 GP
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Order #: Client Sample ID: RW2-2-0.6 Log Date: 08/03
Matrix: SOLID
Date Sampled: 08/01/2001
Time Sampled: 18:00

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	11.4	10.0	mg/Kg	08/07/01 KN
------	------	------	-------	-------------

Order #: Client Sample ID: RW2-2-0.9 Log Date: 08/03
Matrix: SOLID
Date Sampled: 08/01/2001
Time Sampled: 18:04

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	17.3	10.0	mg/Kg	08/07/01 KN
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9045 pH

pH	7.14	NA		08/06/01 GP
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Order #: 283828

Client Sample ID: RW3-1-0.0

Log Date: 08/03/2

Matrix: SOLID

Date Sampled: 08/01/2001

Time Sampled: 18:19

Analyte	Result	DLR	Units	Date/Analyst
<u>7420 Lead by Atomic Absorption</u>				
Lead	56.9	10.0	mg/Kg	08/07/01 KN
<u>7420 STLC Lead by AA</u>				
Lead STLC	0.88	0.2	mg/L	08/10/01 NK
<u>9045 pH</u>				
pH	7.21		NA	08/06/01 GP

Order #: 283829

Client Sample ID: RW3-1-0.3

Log Date: 08/03/2

Matrix: SOLID

Date Sampled: 08/01/2001

Time Sampled: 18:21

Analyte	Result	DLR	Units	Date/Analyst
<u>7420 Lead by Atomic Absorption</u>				
Lead	39.7	10.0	mg/Kg	08/07/01 KN
<u>7420 STLC Lead by AA</u>				
Lead STLC	1.24	0.2	mg/L	08/10/01 NK
<u>9045 pH</u>				
pH	8.26		NA	08/06/01 GP

Order #: 283830

Client Sample ID: RW3-1-0.6

Log Date: 08/03/2

Matrix: SOLID

Date Sampled: 08/01/2001

Time Sampled: 18:23

Analyte	Result	DLR	Units	Date/Analyst
<u>7420 Lead by Atomic Absorption</u>				
Lead	51.3	10.0	mg/Kg	08/07/01 KN
<u>7420 STLC Lead by AA</u>				
Lead STLC	1.24	0.2	mg/L	08/10/01 NK
<u>9045 pH</u>				
pH	8.26		NA	08/06/01 GP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Order #: 283831

Client Sample ID: RW3-1-0.9

Log Date: 08/03/01

Matrix: SOLID

Date Sampled: 08/01/2001

Time Sampled: 18:25

Analyte	Result	DLR	Units	Date/Analyst
7420 Lead by Atomic Absorption				
Lead	59.9	10.0	mg/Kg	08/07/01 KN

7420 STLC Lead by AA

Lead STLC	1.03	0.2	mg/L	08/10/01 NK
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Order #: 283832

Client Sample ID: RW3-1-DUP

Log Date: 08/03

Matrix: SOLID

Date Sampled: 08/01/2001

Analyte	Result	DLR	Units	Date/Analyst
7420 Lead by Atomic Absorption				
Lead	62.9	10.0	mg/Kg	08/07/01 KN

7420 STLC Lead by AA

Lead STLC	1.31	0.2	mg/L	08/10/01 NK
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Order #: 283833

Client Sample ID: RW3-2-0.0

Log Date: 08/03

Matrix: SOLID

Date Sampled: 08/01/2001

Time Sampled: 18:45

Analyte	Result	DLR	Units	Date/Analyst
7420 Lead by Atomic Absorption				
Lead	223	10.0	mg/Kg	08/07/01 KN

7420 DI-STLC Lead by AA

Lead DI-STLC	ND	0.2	mg/L	08/13/01 NK
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7420 STLC Lead by AA

Lead STLC	6.20	0.2	mg/L	08/10/01 NK
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Order #: 283834

Client Sample ID: RW3-2-0.3

Log Date: 08/03/2

Matrix: SOLID

Date Sampled: 08/01/2001

Time Sampled: 18:48

Analyte	Result	DLR	Units	Date/Analyst
7420 Lead by Atomic Absorption				
Lead	ND	10.0	mg/Kg	08/07/01 KN

9045 pH

pH	8.24		NA	08/06/01 GP
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Order #: 283835

Client Sample ID: RW3-2-0.6

Log Date: 08/03/2

Matrix: SOLID

Date Sampled: 08/01/2001

Time Sampled: 18:50

Analyte	Result	DLR	Units	Date/Analyst
7420 Lead by Atomic Absorption				
Lead	156	10.0	mg/Kg	08/07/01 KN

7420 DI-STLC Lead by AA

Lead DI-STLC	ND	0.2	mg/L	08/13/01 NK
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7420 STLC Lead by AA

Lead STLC	9.08	0.2	mg/L	08/10/01 NK
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Order #: 283836

Client Sample ID: RW3-2-0.9

Log Date: 08/03/2

Matrix: SOLID

Date Sampled: 08/01/2001

Time Sampled: 18:55

Analyte	Result	DLR	Units	Date/Analyst
7420 Lead by Atomic Absorption				
Lead	ND	10.0	mg/Kg	08/07/01 KN

9045 pH

pH	8.35		NA	08/06/01 GP
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Order #: 283837
Matrix: WATER
Date Sampled: 08/01/2001
Time Sampled: 19:01

Client Sample ID: Decon Rinse-2

Log Date: 08/03/01

Analyte	Result	DLR	Units	Date/Analyst
<u>7420 Lead by Atomic Absorption</u>				
Lead	ND	0.2	mg/L	08/07/01 KN

Order #: 283838 Client Sample ID: SW348-1-0.0 Log Date: 08/03/01
Matrix: SOLID
Date Sampled: 08/02/2001
Time Sampled: 08:03

Analyte	Result	DLR	Units	Date/Analyst
<u>7420 Lead by Atomic Absorption</u>				
Lead	30.9	10.0	mg/Kg	08/07/01 KN

9045 pH

pH	8.66		NA	08/06/01 GP
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Order #: 283839 Client Sample ID: SW348-1-0.3 Log Date: 08/03/01
Matrix: SOLID
Date Sampled: 08/02/2001
Time Sampled: 08:08

Analyte	Result	DLR	Units	Date/Analyst
<u>7420 Lead by Atomic Absorption</u>				
Lead	31.3	10.0	mg/Kg	08/07/01 KN

Order #: 283840 Client Sample ID: SW348-1-0.6 Log Date: 08/03/01
Matrix: SOLID
Date Sampled: 08/02/2001
Time Sampled: 08:12

Analyte	Result	DLR	Units	Date/Analyst
<u>7420 Lead by Atomic Absorption</u>				
Lead	29.7	10.0	mg/Kg	08/07/01 KN

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



9045 pH

pH	8.55	NA	08/06/01	GP
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Order #: 283841

Client Sample ID: SW348-1-0.9

Log Date: 08/03/2

Matrix: SOLID

Date Sampled: 08/02/2001

Time Sampled: 08:14

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	29.2	10.0	mg/Kg	08/07/01	KN
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Order #: 283842

Client Sample ID: SW348-1-1.5

Log Date: 08/03/2

Matrix: SOLID

Date Sampled: 08/02/2001

Time Sampled: 08:18

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	45.0	10.0	mg/Kg	08/07/01	KN
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Order #: 283843

Client Sample ID: SW348-1-DUP

Log Date: 08/03/2

Matrix: SOLID

Date Sampled: 08/02/2001

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	120	10.0	mg/Kg	08/07/01	KN
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7420 STLC Lead by AA

Lead STLC	0.63	0.2	mg/L	08/10/01	NK
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Order #: 283844

Client Sample ID: SW352-2-0.0

Log Date: 08/03/2

Matrix: SOLID

Date Sampled: 08/02/2001

Time Sampled: 09:12

Analyte	Result	DLR	Units	Date/Analyst
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Lead	33.2	10.0	mg/Kg	08/07/01	KN
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Order #: 283845

Client Sample ID: SW352-2-0.3

Log Date: 08/0

Matrix: SOLID

Date Sampled: 08/02/2001

Time Sampled: 09:15

Analyte	Result	DLR	Units	Date/Analyst
<u>7420 Lead by Atomic Absorption</u>				

Lead	16.7	10.0	mg/Kg	08/07/01	KN
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9045 pH

pH	8.17		NA	08/06/01	GP
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Order #: 283846

Client Sample ID: SW352-2-0.6

Log Date: 08/05/

Matrix: SOLID

Date Sampled: 08/02/2001

Time Sampled: 09:16

Analyte	Result	DLR	Units	Date/Analyst
<u>7420 Lead by Atomic Absorption</u>				

Lead	68.8	10.0	mg/Kg	08/07/01	KN
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7420 STLC Lead by AA

Lead STLC	1.52	0.2	mg/L	08/10/01	NK
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Order #: 283847

Client Sample ID: SW352-2-0.9

Log Date: 08/03/

Matrix: SOLID

Date Sampled: 08/02/2001

Time Sampled: 09:18

Analyte	Result	DLR	Units	Date/Analyst
<u>7420 Lead by Atomic Absorption</u>				

Lead	86.9	10.0	mg/Kg	08/07/01	KN
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7420 STLC Lead by AA

Lead STLC	2.15	0.2	mg/L	08/10/01	NK
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9045 pH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



pH	8.55	NA	08/06/01	GP
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Order #: 283848

Client Sample ID: SW352-2-1.5

Log Date: 08/03/20

Matrix: SOLID

Date Sampled: 08/02/2001

Time Sampled: 09:21

Analyte	Result	DLR	Units	Date/Analyst
7420 Lead by Atomic Absorption				
Lead	386	10.0	mg/Kg	08/07/01 KN
7420 DI-STLC Lead by AA				
Lead DI-STLC	0.38	0.2	mg/L	08/13/01 NK
7420 STLC Lead by AA				
Lead STLC	16.1	2.0	mg/L	08/10/01 NK

Order #: 283849

Client Sample ID: SW366-1-0.0

Log Date: 08/03/20

Matrix: SOLID

Date Sampled: 08/02/2001

Time Sampled: 09:55

Analyte	Result	DLR	Units	Date/Analyst
7420 Lead by Atomic Absorption				
Lead	325	10.0	mg/Kg	08/07/01 KN
7420 DI-STLC Lead by AA				
Lead DI-STLC	ND	0.2	mg/L	08/13/01 NK
7420 STLC Lead by AA				
Lead STLC	7.45	0.2	mg/L	08/10/01 NK
9045 pH				
pH	6.65	NA	08/06/01	GP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Order #: 283850
Matrix: SOLID
Date Sampled: 08/02/2001
Time Sampled: 09:57

Client Sample ID: SW366-1-0.3

Log Date: 08/03

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	109	10.0	mg/Kg	08/07/01 KN
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7420 STLC Lead by AA

Lead STLC	1.61	0.2	mg/L	08/10/01 NK
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Order #: 283851
Matrix: SOLID
Date Sampled: 08/02/2001
Time Sampled: 09:58

Client Sample ID: SW366-1-0.6

Log Date: 08/03

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	14.6	10.0	mg/Kg	08/07/01 KN
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9045 pH

pH	7.51		NA	08/06/01 GP
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Order #: 283852
Matrix: SOLID
Date Sampled: 08/02/2001
Time Sampled: 10:00

Client Sample ID: SW366-1-0.9

Log Date: 08/03

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	18.1	10.0	mg/Kg	08/07/01 KN
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Order #: 283853
Matrix: SOLID
Date Sampled: 08/02/2001
Time Sampled: 10:04

Client Sample ID: SW366-1-1.5

Log Date: 08/03

Analyte	Result	DLR	Units	Date/Analyst
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



7420 Lead by Atomic Absorption

Lead	ND	10.0	mg/Kg	08/07/01	KN
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Order #:

Client Sample ID: SW366-1-DUP

Log Date: 08/03/2001

Matrix: SOLID

Date Sampled: 08/02/2001

Analyte

Result

DLR

Units

Date/Analyst

7420 Lead by Atomic Absorption

Lead	21.0	10.0	mg/Kg	08/07/01	KN
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit.



QA REPORT FORM (MS/MSD)

QC Sample: 77411-283619

QC# 080601w1.2

Matrix: WATER

Prep. Date: 08/06/01

Analysis Date: 08/07/01

Lab ID#'s in Batch: 77411, 77490, 77532, 77446, 77442, 77444, 77445, 77488, 77474, 77174, 77489

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = mg/L

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Antimony	6010B	0.030	U	1.00	0.910	0.940	91.0	94.0	3.2
Barium	6010B	0.002	U	1.00	1.090	1.120	109.0	112.0	2.7
Beryllium	6010B	0.001	U	1.00	0.910	0.930	91.0	93.0	2.2
Cadmium	6010B	0.003	U	1.00	0.890	0.920	89.0	92.0	3.3
Chromium	6010B	0.003	U	1.00	0.950	0.980	95.0	98.0	3.1
Cobalt	6010B	0.005	U	1.00	0.970	0.990	97.0	99.0	2.0
Copper	6010B	0.498		1.00	1.460	1.490	96.2	99.2	2.0
Molybdenum	6010B	0.010	U	1.00	0.990	1.030	99.0	103.0	4.0
Nickel	6010B	0.007	U	1.00	0.970	0.990	97.0	99.0	2.0
Silver *	6010B	0.005	U	1.00	0.330	0.340	33.0	34.0	3.0
Vanadium	6010B	0.005	U	1.00	0.960	0.990	96.0	99.0	3.1
Zinc	6010B	0.133		1.00	1.030	1.060	89.7	92.7	2.9
Arsenic	6010B	0.004	U	0.10	0.093	0.094	93.0	94.0	1.1
Selenium *	6010B	0.012		0.10	0.086	0.086	74.0	74.0	0.0
Thallium	6010B	0.003	U	0.10	0.097	0.094	97.0	94.0	3.1
Lead	6010B	0.019		0.20	0.207	0.208	94.0	94.5	0.5
Alluminum	6010B	0.119		1.00	1.070	1.100	95.1	98.1	2.8
Iron	6010B	0.189		1.00	1.110	1.130	92.1	94.1	1.8
Manganese	6010B	0.015		1.00	0.960	0.990	94.5	97.5	3.1
Boron	6010B	0.280		1.00	1.110	1.130	83.0	85.0	1.8

* Outside QC Limits, due to Matrix Interference

NC = Not Calculated

ND = "U" - Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS&MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

% REC LIMITS = 75 -125

RPD LIMITS = 20

ASSOCIATED LABORATORIES
LCS/MB REPORT FORM

LCS Source(s) QC21-141G lab, lot # 219412, QC7-vhg,

Element	Method	Result	TRUE	%Rec	L.Limit	H.Limit	Method Blank	
							MB	ND
Antimony	6010B	2.04	2.00	102.1	80%	120%	0.030	U
Barium	6010B	1.99	2.00	99.7	80%	120%	0.002	U
Beryllium	6010B	2.14	2.00	107.0	80%	120%	0.001	U
Cadmium	6010B	2.05	2.00	102.5	80%	120%	0.004	
Chromium	6010B	2.10	2.00	105.0	80%	120%	0.003	U
Cobalt	6010B	2.14	2.00	107.0	80%	120%	0.005	U
Copper	6010B	2.04	2.00	102.0	80%	120%	0.006	
Molybdenum	6010B	2.02	2.00	101.0	80%	120%	0.010	U
Nickel	6010B	2.08	2.00	104.0	80%	120%	0.007	U
Silver	6010B	0.97	1.00	96.9	80%	120%	0.005	U
Vanadium	6010B	2.06	2.00	103.0	80%	120%	0.005	U
Zinc	6010B	1.98	2.00	99.0	80%	120%	0.099	
Arsenic	6010B	1.95	2.00	97.5	80%	120%	0.005	U
Selenium	6010B	2.01	2.00	100.5	80%	120%	0.005	U
Thallium	6010B	2.04	2.00	102.0	80%	120%	0.005	U
Lead	6010B	1.99	2.00	99.5	80%	120%	0.005	
Alluminum	6010B	2.07	2.00	103.5	80%	120%	0.030	U
Iron	6010B	2.10	2.00	105.0	80%	120%	0.056	
Manganese	6010B	2.04	2.00	102.0	80%	120%	0.010	U
Boron	6010B	2.03	2.00	101.5	80%	120%	0.010	U

Notes : RESULT = Sample Result; TRUE = True Value; %Rec = 100*Result/True
 L.LIMIT / H.LIMIT = Low / High Control Limits
 MB = Method Blank; ND = " U " for Non- Detected

QA REPORT FORM (MS/MSD)

QC Sample: 77444-283787

QC# 080301s5

Matrix: SOLID

Prep. Date: 08/03/01

Analysis Date: 08/07/01

Lab ID#'s in Batch: 77444

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = mg/Kg

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	7420	30.0		99.50	125.00	126.00	95.5	96.5	0.8

NC = Not Calculated

ND = "U" - Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS&MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

% REC LIMITS = 75 -125
RPD LIMITS = 20

LCS Source(s) QC21-LOT#QC2/91/1;QC7-LOT7A92/1

Element	Method	Result	TRUE	%Rec	L.Limit	H.Limit	Method Blank	
							MB	ND
Lead	7420	108	100	108.0	80%	120%	10.0	U

Notes : RESULT = Sample Result; TRUE = True Value; %Rec = 100*Result/True

L.LIMIT / H.LIMIT = Low / High Control Limits

MB = Preparation Blank; ND = " U " for Non- Detected

ASSOCIATED LABORATORIES
QA REPORT FORM (MS/MSD)

QC Sample: 77444-283798. QC# 080301s6
 Matrix: SOLID
 Prep. Date: 08/03/01
 Analysis Date: 08/07/01
 Lab ID#'s in Batch: 77444

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = mg/Kg

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	7420	234.0		98.80	328.00	322.00	95.1	89.1	1.8

NC = Not Calculated

ND = "U" - Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS&MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

% REC LIMITS = 75 -125
RPD LIMITS = 20

LCS Source(s) QC21-LOT#QC2/91/1;QC7-LOT7A92/1

Element	Method	Result	TRUE	%Rec	L.Limit	H.Limit	Method Blank	
							MB	ND
Lead	7420	112	100	112.0	80%	120%	10.0	U

Notes : RESULT = Sample Result; TRUE = True Value; %Rec = 100*Result/True

L.LIMIT / H.LIMIT = Low / High Control Limits

MB = Preparation Blank; ND = " U " for Non- Detected

QC Sample: 77444-283826

QC# 080301s7

Matrix: SOLID

Prep. Date: 08/03/01

Analysis Date: 08/07/01

Lab ID#'s in Batch: 77444

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = mg/Kg

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	7420	11.4		98.75	121.00	117.00	111.0	106.9	3.4

NC = Not Calculated

ND = "U" - Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS&MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

% REC LIMITS = 75 -125
RPD LIMITS = 20

LCS Source(s) QC21-LOT#QC2/91/1;QC7-LOT7A92/1

Element	Method	Result	TRUE	%Rec	L.Limit	H.Limit	Method Blank	
							MB	ND
Lead	7420	118	100	118.0	80%	120%	10.0	U

Notes : RESULT = Sample Result; TRUE = True Value; %Rec = 100*Result/True

L.LIMIT / H.LIMIT = Low / High Control Limits

MB = Preparation Blank; ND = " U " for Non- Detected

ASSOCIATED LABORATORIES
QA REPORT FORM (MS/MSD)

QC Sample: 77444-283853

QC# 080301s8

Matrix: SOLID

Prep. Date: 08/03/01

Analysis Date: 08/07/01

Lab ID#'s in Batch: 77444

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = mg/Kg

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	7420	0.0	U	99.90	110.00	110.00	110.1	110.1	0.0

NC = Not Calculated

ND = "U" - Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS&MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

% REC LIMITS = 75 -125
RPD LIMITS = 20

LCS Source(s) QC21-LOT#QC2/91/1;QC7-LOT7A92/1

Element	Method	Result	TRUE	%Rec	L.Limit	H.Limit	Method Blank	
							MB	ND
Lead	7420	117	100	117.0	80%	120%	10.0	U

Notes : RESULT = Sample Result; TRUE = True Value; %Rec = 100*Result/True

L.LIMIT / H.LIMIT = Low / High Control Limits

MB = Preparation Blank; ND = " U " for Non- Detected

QA REPORT FORM (MS/MSD)

QC Sample: LR 77444-283843

QC# 081001STLC2

Matrix: STLC

Prep. Date: 08/10/01

Analysis Date: 08/10/01

Lab ID#'s in Batch: LR 77444

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = mg/L

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	7420	0.63		2.00	2.60	2.64	98.5	100.5	1.5

NC = Not Calculated

ND = "U" - Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS&MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

<i>% REC LIMITS = 75 -125</i>
<i>RPD LIMITS = 20</i>

ASSOCIATED LABORATORIES
QA REPORT FORM (MS/MSD)

QC Sample: LR 77444-283794

QC# 081001STLC1

Matrix: STLC

Prep. Date: 08/10/01

Analysis Date: 08/10/01

Lab ID#'s in Batch: LR 77444

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = mg/L

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	7420	2.46		2.00	4.29	4.35	91.5	94.5	1.4

NC = Not Calculated

ND = "U" - Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS&MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

% REC LIMITS = 75 -125
RPD LIMITS = 20

and Analysis Request Form

Company:
IT Corporation
1326 N. Market Boulevard
Sacramento, CA 95834-1912
Phone: (916) 928-3300 Fax: (916) 928-3341

Laboratory:
Associated Laboratories
806 N. Batavia, Orange, California 92868
Phone: (714) 771-6900
Fax: (714) 538-1209

PLEASE FAX Cc
TO Don Bransford
@ 916-928-3341

Send Results To:
Don Bransford
IT Corporation
1326 N. Market Boulevard
Sacramento, CA 95834-1912

Project:
Interstate 405 Improvement Project
Location: Route 405, Los Angeles County
Project #: 829965
Contract: 43A0023

EA #: 07-119851

Sample ID:	Comments	Date	Time	Container	Total	Preserv- ative Used	Matrix	Analysis			TAT
								6010: Lead Only	6010/7471: Title 22 Metals	9045: pH	
1 SW376-1-0.0		8/1/01	1259	glass jar	1	Ice	Soil	X		X	std
2 0.3			1300	glass jar	1	Ice	Soil	X			std
3 0.6			1301	glass jar	1	Ice	Soil	X		X	std
4 0.9			1306	glass jar	1	Ice	Soil	X			std
5 1.5			1315	glass jar	1	Ice	Soil	X			std
6 SW376-1-DUP				glass jar	1	Ice	Soil	X			std
7 SW376-2-0.0			1321	glass jar	1	Ice	Soil	X			std
8 0.3			1324	glass jar	1	Ice	Soil	X		X	std
9 0.6			1327	glass jar	1	Ice	Soil	X			std
10 0.9			1330	glass jar	1	Ice	Soil	X		X	std
11 1.5			1339	glass jar	1	Ice	Soil	X			std
12 RW2-1-0.0			1429	glass jar	1	Ice	Soil		X	X	std
13 0.3			1434	glass jar	1	Ice	Soil	X			std
14 0.6			1440	glass jar	1	Ice	Soil	X		X	std
15 0.9			1446	glass jar	1	Ice	Soil	X			std
16 RW2-1-DUP				glass jar	1	Ice	Soil	X			std
17 SW384-1-0.0			1504	glass jar	1	Ice	Soil	X		X	std
18 0.3			1505	glass jar	1	Ice	Soil	X			std
19 0.6			1507	glass jar	1	Ice	Soil	X			std
20 0.9			1510	glass jar	1	Ice	Soil	X			std
21 1.5			1515	glass jar	1	Ice	Soil	X			std
22 SW384-1-DUP				glass jar	1	Ice	Soil	X			std
23 SW384-2-0.0	(Location moved		1544	glass jar	1	Ice	Soil	X			std
24 0.3	due to homes		1546	glass jar	1	Ice	Soil	X		X	std
25 0.6	@ occasional		1507	glass jar	1	Ice	Soil	X			std
26 0.9	location)		1554	glass jar	1	Ice	Soil	X			std
27 1.5			1559	glass jar	1	Ice	Soil	X			std
28 SW384-3-0.0			1616	glass jar	1	Ice	Soil	X			std
29 0.3			1618	glass jar	1	Ice	Soil	X			std
30 0.6			1623	glass jar	1	Ice	Soil	X			std

Notes:

Relinquished By: *Kathleen Waldo*
Print Name: KATHLEEN WALDO
Date: 1030
Time: 8/2/01

Received By: *Laura Stone*
Print Name: LAURA STONE
Date: 8-2-01
Time: 10:30

Relinquished By: *Laura Stone*
Print Name: LAURA STONE
Date: 8-2-01
Time: 4:40

Received By: *Ken Hulsey*
Print Name: Ken Hulsey
Date: 8-2-01
Time: 1650

CHAIN OF CUSTODY and Analysis Request Form

77444

Company:
IT Corporation
1326 N. Market Boulevard
Sacramento, CA 95834-1912
Phone: (916) 928-3300 Fax: (916) 928-3341

Laboratory:
Associated Laboratories
806 N. Batavia, Orange, California 92868
Phone: (714) 771-6900
Fax: (714) 538-1209

Send Results To:
Don Bransford
IT Corporation
1326 N. Market Boulevard
Sacramento, CA 95834-1912

Project:
Interstate 405 Improvement Project
Location: Route 405, Los Angeles County
Project #: 829965
Contract: 43A0023 EA #: 07-119851

Sample ID:	Comments	Date	Time	Container	Total	Preserv- ative Used	Matrix	Analysis			TAT
								6010: Lead Only	6010/7471: Title 22 Metals	9045: pH	
1 SW384-3-0.9		8/1/01	1626	glass jar	1	Ice	Soil	X		X	std
2 1.5			1631	glass jar	1	Ice	Soil	X			std
3 SW384-4-0.0			1655	glass jar	1	Ice	Soil	X			std
4 0.3			1656	glass jar	1	Ice	Soil	X			std
5 0.6			1658	glass jar	1	Ice	Soil	X			std
6 0.9			1701	glass jar	1	Ice	Soil	X			std
7 1.5			1706	glass jar	1	Ice	Soil	X			std
8 SW384-5-0.0			1719	glass jar	1	Ice	Soil	X			std
9 0.3			1721	glass jar	1	Ice	Soil	X			std
10 0.6			1723	glass jar	1	Ice	Soil	X			std
11 0.9			1728	glass jar	1	Ice	Soil	X			std
12 1.5	@ 4' (utility @ 5')		1732	glass jar	1	Ice	Soil	X		X	std
13 RW2-2-0.0			1746	glass jar	1	Ice	Soil	X			std
14 0.3			1748	glass jar	1	Ice	Soil	X		X	std
15 0.6			1800	glass jar	1	Ice	Soil	X			std
16 0.9			1804	glass jar	1	Ice	Soil	X		X	std
17 RW3-1-0.0			1819	glass jar	1	Ice	Soil	X		X	std
18 0.3			1821	glass jar	1	Ice	Soil	X			std
19 0.6			1823	glass jar	1	Ice	Soil	X		X	std
20 0.9			1825	glass jar	1	Ice	Soil	X			std
21 RW3-1-DUP				glass jar	1	Ice	Soil	X			std
22 RW3-2-0.0			1845	glass jar	1	Ice	Soil	X			std
23 0.3			1848	glass jar	1	Ice	Soil	X		X	std
24 0.6			1850	glass jar	1	Ice	Soil	X			std
25 0.9			1855	glass jar	1	Ice	Soil	X		X	std
26 DECONFINCE-2		8/2/01	1901	glass jar	1	Ice	Soil	X			std
27 SW348-1-0.0		8/2/01	803	glass jar	1	Ice	Soil	X		X	std
28 0.3			808	glass jar	1	Ice	Soil	X			std
29 0.6			812	glass jar	1	Ice	Soil	X		X	std
30 0.9			814	glass jar	1	Ice	Soil	X			std

Notes:

Relinquished By: *Kathleen Wardo*
Print Name: KATHLEEN WARDO
Date: 8/2/01
Time: 1030

Received By: *LAUREN D SONE TX*
Print Name: LAUREN D SONE TX
Date: 8-2-01
Time: 1030

Relinquished By: *LAUREN D SONE TX*
Print Name: LAUREN D SONE TX
Date: 8-2-01
Time: 4:40

Received By: *Ken Hulsey*
Print Name: Ken Hulsey
Date: 8-2-01
Time: 1630

and Analysis Request Form

77444

Company:
IT Corporation
1326 N. Market Boulevard
Sacramento, CA 95834-1912
Phone: (916) 928-3300 Fax: (916) 928-3341

Laboratory:
Associated Laboratories
806 N. Batavia, Orange, California 92868
Phone: (714) 771-6900
Fax: (714) 538-1209

Send Results To:
Don Bransford
IT Corporation
1326 N. Market Boulevard
Sacramento, CA 95834-1912

Project:
Interstate 405 Improvement Project
Location: Route 405, Los Angeles County
Project #: 829965
Contract: 43A0023

EA #: 07-119851

Sample ID:	Comments	Date	Time	Container	Total	Preservative Used	Matrix	Analysis			TAT
								6010: Lead Only	6010/7471: Title 22 Metals	9045: pH	
1 SW348-1-1.5		8/2/01	818	glass jar	1	Ice	Soil	X			std
2 SW348-1-DUP				glass jar	1	Ice	Soil	X			std
3 BW1-2-0.0			877	glass jar	1	Ice	Soil				std
4 0.3				glass jar	1	Ice	Soil				std
5 0.6				glass jar	1	Ice	Soil				std
6 0.9				glass jar	1	Ice	Soil				std
7 SW352-2-0.0			917	glass jar	1	Ice	Soil	X			std
8 0.3			915	glass jar	1	Ice	Soil	X		X	std
9 0.6			916	glass jar	1	Ice	Soil	X			std
10 0.9			918	glass jar	1	Ice	Soil	X		X	std
11 1.5	@4' DUEZUN4765		921	glass jar	1	Ice	Soil	X			std
12 SW300-1-0.0			955	glass jar	1	Ice	Soil	X		X	std
13 0.3			957	glass jar	1	Ice	Soil	X			std
14 0.6			958	glass jar	1	Ice	Soil	X		X	std
15 0.9			1000	glass jar	1	Ice	Soil	X			std
16 1.5			1004	glass jar	1	Ice	Soil	X			std
17 SW300-1-DUP				glass jar	1	Ice	Soil	X			std
18				glass jar	1	Ice	Soil				std
19				glass jar	1	Ice	Soil				std
20				glass jar	1	Ice	Soil				std
21				glass jar	1	Ice	Soil				std
22				glass jar	1	Ice	Soil				std
23				glass jar	1	Ice	Soil				std
24				glass jar	1	Ice	Soil				std
25				glass jar	1	Ice	Soil				std
26				glass jar	1	Ice	Soil				std
27				glass jar	1	Ice	Soil				std
28				glass jar	1	Ice	Soil				std
29				glass jar	1	Ice	Soil				std
30				glass jar	1	Ice	Soil				std

Notes:

Relinquished By: *Kathleen Ward*
Print Name: KATHLEEN WARD
Date: 8/2/01
Time: 1030

Received By: *Lavon Jones Jr*
Print Name: LAVON JONES JR
Date: 8-2-01
Time: 1030

Relinquished By: *Lavon Jones Jr*
Print Name: LAVON JONES JR
Date: 8-2-01
Time: 4:40

Received By: *Ken Hulsey*
Print Name: Ken Hulsey
Date: 8-2-01
Time: 1650

Subject: LA 405 soluble test criteria

Date: Fri, 3 Aug 2001 09:43:46 -0700

From: "Bransford, Don" <Dbransford@TheITGroup.com>

To: "droberts@associatedlabs.com" <droberts@associatedlabs.com>

Danielle, here are the criteria we'll be following for requesting soluble lead analyses. Samples with total concentrations between 50 mg/kg and 1,000 mg/kg will be tested for soluble lead by the WET. Samples with concentrations of soluble lead by the WET will be further tested for soluble lead by the WET with deionized water extraction. Samples with total lead exceeding 1,000 mg/kg may be tested for soluble lead by the TCLP. However, there is a cap on the number of these analyses and Caltrans will be selecting these samples.

Kathleen Waldo or I will make the soluble lead analysis requests.

Donald P. Bransford, R.G.
Senior Geologist

IT Corporation
1326 North Market Boulevard
Sacramento, California 95834
916-928-3300
916-565-4186 direct
916-928-3341 fax
dbransford@theitgroup.com

Cooler Receipt Form

Client: IT Corporation Project: LOS Improvement
Cooler Received: 8-2-01 Cooler Opened: 8-2-01 By: Ken Ulsky
Signed: 

Was cooler scanned for presence of radioactivity, and noted if found? Yes / No

Were custody seals present on outside of cooler? Yes / No

a: If Yes, were they intact? Yes / No

b: Were signature and date correct? Yes / No

Were custody papers completely filled out? Yes / No

Did you sign and date the custody papers in the appropriate place? Yes / No

Was a shippers packing slip attached to the cooler? Yes / No

What kind of packing material was used? Ice

Was sufficient ice used? Yes / No Temperature: 0.2°C Date: 8-2-01

Were all bottles sealed in plastic bags? Yes / No

Did all bottles arrive intact? Yes / No

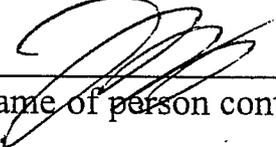
Were all bottles labeled correctly? (ID, Analysis, Dates, Times) Yes / No

Were the correct containers included for the tests required? Yes / No

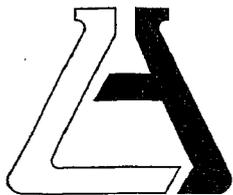
Were all VOA vials checked for headspace? NA / Yes / No

Was sufficient volume of sample sent in all containers? Yes / No

Were correct preservatives used? Yes / No

Approved by:  Date: 8-2-01

If not approved: Name of person contacted _____ Date: _____



ASSOCIATED LABORATORIES

806 North Batavia - Orange, California 92868 - 714/771-6900

FAX 714/538-1209

CLIENT IT Corporation (9493)
ATTN: Don Bransford
1236 N. Market Boulevard
Sacramento, CA 95834-1912

LAB REQUEST 77445

REPORTED 08/15/2001

RECEIVED 08/03/2001

PROJECT #829965
Interstate 405 Improvement Project

SUBMITTER Client

COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

<u>Order No.</u>	<u>Client Sample Identification</u>
283855	SW366-2-0.0
283856	SW366-2-0.3
283857	SW366-2-0.6
283858	SW366-2-0.9
283859	SW366-2-1.5
283860	SW368-1-0.0
283861	SW368-1-0.3
283862	SW368-1-0.6
283863	SW368-1-0.9
283864	SW368-2-0.0
283865	SW368-2-0.3
283866	SW368-2-0.6

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,


Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

CLIENT IT Corporation (9493)
ATTN: Don Bransford
1236 N. Market Boulevard
Sacramento, CA 95834-1912

LAB REQUEST 77445

REPORTED 08/15/2001

RECEIVED 08/03/2001

PROJECT #829965
Interstate 405 Improvement Project

SUBMITTER Client

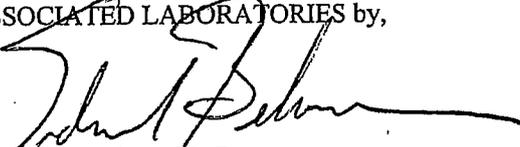
COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

<u>Order No.</u>	<u>Client Sample Identification</u>
283867	SW368-2-0.9
283868	SW368-2-1.5
283869	SW368-2-DUP
283870	SW370-1-0.0
283871	SW370-1-0.3
283872	SW370-1-0.6
283873	SW370-1-0.9
283874	SW370-1-1.5
283875	SW370-1-DUP
283876	SW370-2-0.0
283877	SW370-2-0.3
283878	SW370-2-0.6
283879	SW370-2-0.9
283880	SW370-2-1.5
283881	SW384-6-0.0
283882	SW384-6-0.3
283883	SW384-6-0.6
283884	SW384-6-0.9
283885	SW384-6-1.5
283886	RW4-1-0.0

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,


Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

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TESTING & CONSULTING
Chemical
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Environmental

CLIENT IT Corporation (9493)
ATTN: Don Bransford
1236 N. Market Boulevard
Sacramento, CA 95834-1912

LAB REQUEST 77445

REPORTED 08/15/2001

RECEIVED 08/03/2001

PROJECT #829965
Interstate 405 Improvement Project

SUBMITTER Client

COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

<u>Order No.</u>	<u>Client Sample Identification</u>
283887	RW4-1-0.3
283888	RW4-1-0.6
283889	RW4-1-0.9
283890	RW4-1-DUP
283891	RW4-2-0.0
283892	RW4-2-0.3
283893	RW4-2-0.6
283894	RW4-2-0.9
283895	RW5-1-0.0
283896	RW5-1-0.3
283897	RW5-1-0.6
283898	RW5-1-0.9
283899	RW5-1-DUP
283900	RW5-2-0.0
283901	RW5-2-0.3
283902	RW5-2-0.6
283903	RW5-2-0.9
283904	Decon Rinse

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,



Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

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Microbiological
Environmental

Matrix: SOLID
Date Sampled: 08/02/2001
Time Sampled: 10:40

Client Sample ID: SW366-2-0.3

Log Date: 08/03/03

Analyte	Result	DLR	Units	Date/Analyst
7420 Lead by Atomic Absorption				
Lead	191	10.0	mg/Kg	08/07/01 NK
7420 DI-STLC Lead by AA				
Lead DI-STLC	ND	0.2	mg/L	08/13/01 NK
7420 STLC Lead by AA				
Lead STLC	5.76	0.2	mg/L	08/10/01 NK

Order #: Client Sample ID: SW366-2-0.3 Log Date: 08/03
Matrix: SOLID
Date Sampled: 08/02/2001
Time Sampled: 10:42

Analyte	Result	DLR	Units	Date/Analyst
7420 Lead by Atomic Absorption				
Lead	ND	10.0	mg/Kg	08/07/01 NK
9045 pH				
pH	6.77		NA	08/06/01 GP

Order #: Client Sample ID: SW366-2-0.6 Log Date: 08/03
Matrix: SOLID
Date Sampled: 08/02/2001
Time Sampled: 10:43

Analyte	Result	DLR	Units	Date/Analyst
7420 Lead by Atomic Absorption				
Lead	ND	10.0	mg/Kg	08/07/01 NK

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Order #: 283858

Client Sample ID: SW366-2-0.9

Log Date: 08/03/2

Matrix: SOLID

Date Sampled: 08/02/2001

Time Sampled: 10:45

Analyte	Result	DLR	Units	Date/Analyst
7420 Lead by Atomic Absorption				
Lead	ND	10.0	mg/Kg	08/07/01 NK

9045 pH				
pH	6.25		NA	08/06/01 GP

Order #: 283859

Client Sample ID: SW366-2-1.5

Log Date: 08/03/2

Matrix: SOLID

Date Sampled: 08/02/2001

Time Sampled: 10:47

Analyte	Result	DLR	Units	Date/Analyst
7420 Lead by Atomic Absorption				
Lead	ND	10.0	mg/Kg	08/07/01 NK

Order #: 283860

Client Sample ID: SW368-1-0.0

Log Date: 08/03/2

Matrix: SOLID

Date Sampled: 08/02/2001

Time Sampled: 11:16

Analyte	Result	DLR	Units	Date/Analyst
7420 Lead by Atomic Absorption				
Lead	430	10.0	mg/Kg	08/07/01 NK

7420 DI-STLC Lead by AA				
Lead DI-STLC	ND	0.2	mg/L	08/13/01 NK

7420 STLC Lead by AA				
Lead STLC	22.8	2.0	mg/L	08/10/01 NK

9045 pH				
pH	6.09		NA	08/06/01 GP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Order #: 283862
Matrix: SOLID
Date Sampled: 08/02/2001
Time Sampled: 11:18

Client Sample ID: SW368-1-0.5

Log Date: 08/03/02

Analyte	Result	DLR	Units	Date/Analyst
---------	--------	-----	-------	--------------

7420 Lead by Atomic Absorption

Lead	ND	10.0	mg/Kg	08/07/01 NK
------	----	------	-------	-------------

Order #: 283862
Matrix: SOLID
Date Sampled: 08/02/2001
Time Sampled: 11:21

Client Sample ID: SW368-1-0.6

Log Date: 08/03/02

Analyte	Result	DLR	Units	Date/Analyst
---------	--------	-----	-------	--------------

7420 Lead by Atomic Absorption

Lead	ND	10.0	mg/Kg	08/07/01 NK
------	----	------	-------	-------------

9045 pH

pH	6.79		NA	08/06/01 GP
----	------	--	----	-------------

Order #: 283863
Matrix: SOLID
Date Sampled: 08/02/2001
Time Sampled: 11:24

Client Sample ID: SW368-1-0.9

Log Date: 08/03/02

Analyte	Result	DLR	Units	Date/Analyst
---------	--------	-----	-------	--------------

7420 Lead by Atomic Absorption

Lead	ND	10.0	mg/Kg	08/07/01 NK
------	----	------	-------	-------------

Order #: 283864
Matrix: SOLID
Date Sampled: 08/02/2001
Time Sampled: 11:35

Client Sample ID: SW368-2-0.0

Log Date: 08/03/02

Analyte	Result	DLR	Units	Date/Analyst
---------	--------	-----	-------	--------------

7420 Lead by Atomic Absorption

Lead	606	10.0	mg/Kg	08/07/01 NK
------	-----	------	-------	-------------

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



7420 DI-STLC Lead by AA

Lead DI-STLC	ND	0.2	mg/L	08/13/01	NK
--------------	----	-----	------	----------	----

7420 STLC Lead by AA

Lead STLC	19.1	2.0	mg/L	08/10/01	NK
-----------	------	-----	------	----------	----

Order #: 283865

Client Sample ID: SW368-2-0.3

Log Date: 08/03/21

Matrix: SOLID

Date Sampled: 08/02/2001

Time Sampled: 11:45

Analyte	Result	DLR	Units	Date/Analyst
---------	--------	-----	-------	--------------

7420 Lead by Atomic Absorption

Lead	22.6	10.0	mg/Kg	08/07/01	NK
------	------	------	-------	----------	----

9045 pH

pH	6.74		NA	08/06/01	GP
----	------	--	----	----------	----

Order #: 283866

Client Sample ID: SW368-2-0.6

Log Date: 08/03/21

Matrix: SOLID

Date Sampled: 08/02/2001

Time Sampled: 11:46

Analyte	Result	DLR	Units	Date/Analyst
---------	--------	-----	-------	--------------

7420 Lead by Atomic Absorption

Lead	ND	10.0	mg/Kg	08/07/01	NK
------	----	------	-------	----------	----

Order #: 283867

Client Sample ID: SW368-2-0.9

Log Date: 08/03/21

Matrix: SOLID

Date Sampled: 08/02/2001

Time Sampled: 11:48

Analyte	Result	DLR	Units	Date/Analyst
---------	--------	-----	-------	--------------

7420 Lead by Atomic Absorption

Lead	ND	10.0	mg/Kg	08/07/01	NK
------	----	------	-------	----------	----

9045 pH

pH	7.75		NA	08/06/01	GP
----	------	--	----	----------	----

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Order #: 283806
Matrix: SOLID
Date Sampled: 08/02/2001
Time Sampled: 11:54

Client Sample ID: SW368-2-1.5

Log Date: 08/03/

Analyte	Result	DLR	Units	Date/Analyst
---------	--------	-----	-------	--------------

7420 Lead by Atomic Absorption

Lead	ND	10.0	mg/Kg	08/07/01 NK
------	----	------	-------	-------------

Order #: 283869
Matrix: SOLID
Date Sampled: 08/02/2001

Client Sample ID: SW368-2-DUP

Log Date: 08/03/

Analyte	Result	DLR	Units	Date/Analyst
---------	--------	-----	-------	--------------

7420 Lead by Atomic Absorption

Lead	ND	10.0	mg/Kg	08/07/01 NK
------	----	------	-------	-------------

Order #: 283870
Matrix: SOLID
Date Sampled: 08/02/2001
Time Sampled: 12:23

Client Sample ID: SW370-1-0.0

Log Date: 08/03/

Analyte	Result	DLR	Units	Date/Analyst
---------	--------	-----	-------	--------------

7420 Lead by Atomic Absorption

Lead	294	10.0	mg/Kg	08/07/01 NK
------	-----	------	-------	-------------

7420 DI-STLC Lead by AA

Lead DI-STLC	ND	0.2	mg/L	08/13/01 NK
--------------	----	-----	------	-------------

7420 STLC Lead by AA

Lead STLC	9.20	2.0	mg/L	08/10/01 NK
-----------	------	-----	------	-------------

9045 pH

pH	6.67		NA	08/06/01 GP
----	------	--	----	-------------

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Order #: 283871

Client Sample ID: SW370-1-0.3

Log Date: 08/03/2

Matrix: SOLID

Date Sampled: 08/02/2001

Time Sampled: 12:24

Analyte	Result	DLR	Units	Date/Analyst
---------	--------	-----	-------	--------------

7420 Lead by Atomic Absorption

Lead	19.4	10.0	mg/Kg	08/07/01 NK
------	------	------	-------	-------------

Order #: 283872

Client Sample ID: SW370-1-0.6

Log Date: 08/03/2

Matrix: SOLID

Date Sampled: 08/02/2001

Time Sampled: 12:26

Analyte	Result	DLR	Units	Date/Analyst
---------	--------	-----	-------	--------------

7420 Lead by Atomic Absorption

Lead	ND	10.0	mg/Kg	08/07/01 NK
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9045 pH

pH	8.03		NA	08/06/01 GP
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Order #: 283873

Client Sample ID: SW370-1-0.9

Log Date: 08/03/2

Matrix: SOLID

Date Sampled: 08/02/2001

Time Sampled: 12:28

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	ND	10.0	mg/Kg	08/07/01 NK
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Order #: 283874

Client Sample ID: SW370-1-1.5

Log Date: 08/03/2

Matrix: SOLID

Date Sampled: 08/02/2001

Time Sampled: 12:32

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	12.4	10.0	mg/Kg	08/07/01 NK
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Order #: 283876
Matrix: SOLID
Date Sampled: 08/02/2001

Client Sample ID: SW370-2-0.0

Log Date: 08/03/2001

Analyte	Result	DLR	Units	Date/Analyst
7420 Lead by Atomic Absorption				
Lead	24.8	10.0	mg/Kg	08/07/01 NK

Order #: 283876 Client Sample ID: SW370-2-0.0 Log Date: 08/03/2001
Matrix: SOLID
Date Sampled: 08/02/2001
Time Sampled: 13:04

Analyte	Result	DLR	Units	Date/Analyst
7420 Lead by Atomic Absorption				
Lead	264	10.0	mg/Kg	08/07/01 NK

7420 DI-STLC Lead by AA				
Lead DI-STLC	ND	0.2	mg/L	08/13/01 NK

7420 STLC Lead by AA				
Lead STLC	9.66	0.2	mg/L	08/10/01 NK

Order #: 283877 Client Sample ID: SW370-2-0.3 Log Date: 08/03/2001
Matrix: SOLID
Date Sampled: 08/02/2001
Time Sampled: 13:06

Analyte	Result	DLR	Units	Date/Analyst
7420 Lead by Atomic Absorption				
Lead	ND	10.0	mg/Kg	08/07/01 NK

9045 pH				
pH	6.05		NA	08/06/01 GP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Order #: 283878

Client Sample ID: SW370-2-0.6

Log Date: 08/03/2001

Matrix: SOLID

Date Sampled: 08/02/2001

Time Sampled: 13:08

Analyte	Result	DLR	Units	Date/Analyst
<u>7420 Lead by Atomic Absorption</u>				
Lead	15.0	10.0	mg/Kg	08/07/01 NK

Order #: 283879

Client Sample ID: SW370-2-0.9

Log Date: 08/03/2001

Matrix: SOLID

Date Sampled: 08/02/2001

Time Sampled: 13:09

Analyte	Result	DLR	Units	Date/Analyst
<u>7420 Lead by Atomic Absorption</u>				
Lead	14.4	10.0	mg/Kg	08/07/01 NK

9045 pH

pH	7.64		NA	08/06/01 GP
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Order #: 283880

Client Sample ID: SW370-2-1.5

Log Date: 08/03/2001

Matrix: SOLID

Date Sampled: 08/02/2001

Time Sampled: 13:18

Analyte	Result	DLR	Units	Date/Analyst
<u>7420 Lead by Atomic Absorption</u>				
Lead	13.9	10.0	mg/Kg	08/07/01 NK

Order #: 283881

Client Sample ID: SW384-6-0.0

Log Date: 08/03/2001

Matrix: SOLID

Date Sampled: 08/02/2001

Time Sampled: 13:54

Analyte	Result	DLR	Units	Date/Analyst
<u>7420 Lead by Atomic Absorption</u>				
Lead	864	10.0	mg/Kg	08/07/01 NK

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Lead DI-STLC | ND | 0.2 mg/L | 08/13/01 NK

7420 STLC Lead by AA

Lead STLC | 16.1 | 2.0 mg/L | 08/10/01 NK

Order #: 283882 **Client Sample ID:** SW384-6-0.3 **Log Date:** 08/0
Matrix: SOLID
Date Sampled: 08/02/2001
Time Sampled: 13:55

Analyte **Result** **DLR** **Units** **Date/Analyst**

7420 Lead by Atomic Absorption

Lead | 14.7 | 10.0 mg/Kg | 08/07/01 NK

Order #: 283883 **Client Sample ID:** SW384-6-0.6 **Log Date:** 08/0
Matrix: SOLID
Date Sampled: 08/02/2001
Time Sampled: 13:58

Analyte **Result** **DLR** **Units** **Date/Analyst**

7420 Lead by Atomic Absorption

Lead | 17.0 | 10.0 mg/Kg | 08/07/01 NK

Order #: 283884 **Client Sample ID:** SW384-6-0.9 **Log Date:** 08/0
Matrix: SOLID
Date Sampled: 08/02/2001
Time Sampled: 14:02

Analyte **Result** **DLR** **Units** **Date/Analyst**

7420 Lead by Atomic Absorption

Lead | 38.1 | 10.0 mg/Kg | 08/07/01 NK

Order #: 283885 **Client Sample ID:** SW384-6-1.5 **Log Date:** 08/0
Matrix: SOLID
Date Sampled: 08/02/2001
Time Sampled: 14:08

Analyte **Result** **DLR** **Units** **Date/Analyst**

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



7420 Lead by Atomic Absorption

Lead	14.0	10.0	mg/Kg	08/07/01	NK
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Order #:

Client Sample ID: RW4-1-0.0

Log Date: 08/03/2

Matrix: SOLID

Date Sampled: 08/02/2001

Time Sampled: 14:43

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	149	10.0	mg/Kg	08/07/01	NK
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7420 DI-STLC Lead by AA

Lead DI-STLC	ND	0.2	mg/L	08/13/01	NK
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7420 STLC Lead by AA

Lead STLC	5.86	0.2	mg/L	08/10/01	NK
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9045 pH

pH	6.93	NA		08/06/01	GP
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Order #:

Client Sample ID: RW4-1-0.3

Log Date: 08/03/2

Matrix: SOLID

Date Sampled: 08/02/2001

Time Sampled: 14:44

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	83.2	10.0	mg/Kg	08/07/01	NK
------	------	------	-------	----------	----

7420 STLC Lead by AA

Lead STLC	2.40	0.2	mg/L	08/10/01	NK
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Order #:

Client Sample ID: RW4-1-0.6

Log Date: 08/03/2

Matrix: SOLID

Date Sampled: 08/02/2001

Time Sampled: 14:46

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



9045 pH

pH	8.37	NA	08/06/01	GP
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Order #: 283889

Client Sample ID: RW4-1-0.9

Log Date: 08/0

Matrix: SOLID

Date Sampled: 08/02/2001

Time Sampled: 14:48

Analyte

Result

DLR

Units

Date/Analyst

7420 Lead by Atomic Absorption

Lead	27.5	10.0	mg/Kg	08/07/01	NK
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Order #: 283890

Client Sample ID: RW4-1-DUP

Log Date: 08/0

Matrix: SOLID

Date Sampled: 08/02/2001

Analyte

Result

DLR

Units

Date/Analyst

7420 Lead by Atomic Absorption

Lead	29.2	10.0	mg/Kg	08/07/01	NK
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Order #: 283891

Client Sample ID: RW4-2-0.0

Log Date: 08/0

Matrix: SOLID

Date Sampled: 08/02/2001

Time Sampled: 15:00

Analyte

Result

DLR

Units

Date/Analyst

7420 Lead by Atomic Absorption

Lead	332	10.0	mg/Kg	08/07/01	NK
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7420 DI-STLC Lead by AA

Lead DI-STLC	ND	0.2	mg/L	08/13/01	NK
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7420 STLC Lead by AA

Lead STLC	8.91	0.2	mg/L	08/10/01	NK
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Order #: 283892

Client Sample ID: RW4-2-0.3

Log Date: 08/03/2

Matrix: SOLID

Date Sampled: 08/02/2001

Time Sampled: 15:10

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	70.4	10.0	mg/Kg	08/07/01 NK
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7420 STLC Lead by AA

Lead STLC	1.74	0.2	mg/L	08/10/01 NK
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9045 pH

pH	8.23		NA	08/06/01 GP
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Order #: 283893

Client Sample ID: RW4-2-0.6

Log Date: 08/03/2

Matrix: SOLID

Date Sampled: 08/02/2001

Time Sampled: 15:12

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	51.0	10.0	mg/Kg	08/07/01 NK
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7420 STLC Lead by AA

Lead STLC	2.23	0.2	mg/L	08/10/01 NK
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Order #: 283894

Client Sample ID: RW4-2-0.9

Log Date: 08/03/2

Matrix: SOLID

Date Sampled: 08/02/2001

Time Sampled: 15:22

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	191	10.0	mg/Kg	08/07/01 NK
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7420 DI-STLC Lead by AA

Lead DI-STLC	ND	0.2	mg/L	08/13/01 NK
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7420 STLC Lead by AA

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



9045 pH

pH	7.84	NA	08/06/01	GP
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Order #: 283895

Client Sample ID: RW5-1-0.0

Log Date: 08/06/01

Matrix: SOLID

Date Sampled: 08/02/2001

Time Sampled: 15:37

Analyte

Result

DLR

Units

Date/Analyst

7420 Lead by Atomic Absorption

Lead	3,120	100.0	mg/Kg	08/20/01	NK
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9045 pH

pH	5.41	NA	08/06/01	GP
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Order #: 283896

Client Sample ID: RW5-1-0.3

Log Date: 08/06/01

Matrix: SOLID

Date Sampled: 08/02/2001

Time Sampled: 15:44

Analyte

Result

DLR

Units

Date/Analyst

7420 Lead by Atomic Absorption

Lead	399	10.0	mg/Kg	08/20/01	NK
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7420 DI-STLC Lead by AA

Lead DI-STLC	0.25	0.2	mg/L	08/13/01	NK
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7420 STLC Lead by AA

Lead STLC	8.30	0.2	mg/L	08/10/01	NK
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Order #: 283897

Client Sample ID: RW5-1-0.6

Log Date: 08/03/01

Matrix: SOLID

Date Sampled: 08/02/2001

Time Sampled: 15:45

Analyte

Result

DLR

Units

Date/Analyst

7420 Lead by Atomic Absorption

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Lead	73.3	10.0	mg/Kg	08/20/01	NK
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7420 STLC Lead by AA

Lead STLC	0.89	0.2	mg/L	08/10/01	NK
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9045 pH

pH	6.06		NA	08/06/01	GP
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Order #: Client Sample ID: RW5-1-0.9 Log Date: 08/03/2
 Matrix: SOLID
 Date Sampled: 08/02/2001
 Time Sampled: 15:46

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	91.5	10.0	mg/Kg	08/20/01	NK
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7420 STLC Lead by AA

Lead STLC	3.17	0.2	mg/L	08/10/01	NK
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Order #: Client Sample ID: RW5-1-DUP Log Date: 08/03/2
 Matrix: SOLID
 Date Sampled: 08/02/2001
 Time Sampled: :

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	2,570	100.0	mg/Kg	08/07/01	NK
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Order #: Client Sample ID: RW5-2-0.0 Log Date: 08/03/2
 Matrix: SOLID
 Date Sampled: 08/02/2001
 Time Sampled: 16:06

Analyte	Result	DLR	Units	Date/Analyst
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7420 Lead by Atomic Absorption

Lead	1,990	100.0	mg/Kg	08/07/01	NK
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Order #: 283901
Matrix: SOLID
Date Sampled: 08/02/2001
Time Sampled: 16:08

Client Sample ID: RW5-2-0.5

Log Date: 08/03/01

Analyte	Result	DLR	Units	Date/Analyst
7420 Lead by Atomic Absorption				
Lead	459	10.0	mg/Kg	08/07/01 NK
7420 DI-STLC Lead by AA				
Lead DI-STLC	ND	0.2	mg/L	08/13/01 NK
7420 STLC Lead by AA				
Lead STLC	6.40	0.2	mg/L	08/10/01 NK
9045 pH				
pH	7.92		NA	08/06/01 GP

Order #: 283902
Matrix: SOLID
Date Sampled: 08/02/2001
Time Sampled: 16:09

Client Sample ID: RW5-2-0.6

Log Date: 08/03/01

Analyte	Result	DLR	Units	Date/Analyst
7420 Lead by Atomic Absorption				
Lead	50.3	10.0	mg/Kg	08/07/01 NK
7420 STLC Lead by AA				
Lead STLC	1.02	0.2	mg/L	08/10/01 NK

Order #: 283903
Matrix: SOLID
Date Sampled: 08/02/2001
Time Sampled: 16:10

Client Sample ID: RW5-2-0.9

Log Date: 08/03/01

Analyte	Result	DLR	Units	Date/Analyst
7420 Lead by Atomic Absorption				
Lead	ND	10.0	mg/Kg	08/07/01 NK

9045 pH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Order #: 283904

Client Sample ID: Decon Rinse

Log Date: 08/03/2

Matrix: WATER

Date Sampled: 08/02/2001

Time Sampled: 16:20

Analyte	Result	DLR	Units	Date/Analyst
6010B ICP CAM Metals Only (16 Metals)				
Lead	0.009	0.005	mg/L	08/08/01 MS

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



QA REPORT FORM (MS/MSD)

QC Sample: LR 77445-283894

QC# 081301STLC2

Matrix: STLC

Prep. Date: 08/13/01

Analysis Date: 08/13/01

Lab ID#'s in Batch: LR 77445

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = mg/L

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	7420	0.20	U	2.00	2.34	2.40	117.0	120.0	2.5

NC = Not Calculated

ND = "U" - Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS&MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

<i>% REC LIMITS = 75 -125</i>
<i>RPD LIMITS = 20</i>

ASSOCIATED LABORATORIES
QA REPORT FORM (MS/MSD)

QC Sample: LR 77445-283887

QC# 081001STLC3

Matrix: STLC

Prep. Date: 08/10/01

Analysis Date: 08/10/01

Lab ID#'s in Batch: LR 77445

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = mg/L

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	7420	2.40		2.00	4.39	4.38	99.5	99.0	0.2

NC = Not Calculated

ND = "U" - Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS&MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

% REC LIMITS = 75 -125
RPD LIMITS = 20

ASSOCIATED LABORATORIES
QA REPORT FORM (MS/MSD)

QC Sample: LR 77445-283900

QC# 080601s3

Matrix: SOLID

Prep. Date: 08/06/01

Analysis Date: 08/07/01

Lab ID#'s in Batch: LR 77445

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = mg/Kg

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	7420	1990		99.5	2314	2333	NC	NC	0.8

NC = Not Calculated

ND = "U" - Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS&MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

% REC LIMITS = 75 - 125
RPD LIMITS = 20

LCS Source(s) : QC21-LOT#QC2/91/1;QC7-LOT7A92/1

Element	Method	Result	TRUE	%Rec	L.Limit	H.Limit	Method Blank	
							MB	ND
Lead	7420	106	100	106.0	80%	120%	10.0	U

Notes : RESULT = Sample Result; TRUE = True Value; %Rec = $100 * \text{Result} / \text{True}$

L.LIMIT / H.LIMIT = Low / High Control Limits

MB = Preparation Blank; ND = "U" for Non-Detected

ASSOCIATED LABORATORIES
QA REPORT FORM (MS/MSD)

QC Sample: 77445-283877 QC# 080601s2
 Matrix: SOLID
 Prep. Date: 08/06/01
 Analysis Date: 08/07/01
 Lab ID#'s in Batch: 77445

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = mg/Kg

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	7420	0.0	U	98.70	119.00	121.00	120.6	122.6	1.7

NC = Not Calculated

ND = "U" - Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS&MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

% REC LIMITS = 75 - 125
RPD LIMITS = 20

LCS Source(s) QC21-LOT#QC2/91/1;QC7-LOT7A92/1

Element	Method	Result	TRUE	%Rec	L.Limit	H.Limit	Method Blank	
							MB	ND
Lead	7420	109	100	109.0	80%	120%	10.0	U

Notes : RESULT = Sample Result; TRUE = True Value: %Rec = 100*Result/True

L.LIMIT / H.LIMIT = Low / High Control Limits

MB = Preparation Blank; ND = " U " for Non- Detected

QA REPORT FORM (MS/MSD)

QC Sample: 77445-283861 QC# 080601s1
 Matrix: SOLID
 Prep. Date: 08/06/01
 Analysis Date: 08/07/01
 Lab ID#'s in Batch: 77445

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = mg/Kg

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	7420	0.0	U	99.70	116.00	116.00	116.3	116.3	0.0

NC = Not Calculated

ND = "U" - Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS&MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

% REC LIMITS = 75 -125
RPD LIMITS = 20

LCS Source(s) QC21-LOT#QC2/91/1;QC7-LOT7A92/1

Element	Method	Result	TRUE	%Rec	L.Limit	H.Limit	Method Blank	
							MB	ND
Lead	7420	105	100	105.0	80%	120%	10.0	U

Notes : RESULT = Sample Result; TRUE = True Value; %Rec = 100*Result/True

L.LIMIT / H.LIMIT = Low / High Control Limits

MB = Preparation Blank; ND = " U " for Non- Detected

and Analysis Request Form

Company:
IT Corporation
1326 N. Market Boulevard
Sacramento, CA 95834-1912
Phone: (916) 928-3300 Fax (916) 928-3341

Laboratory:
Associated Laboratories
806 N. Batavia, Orange, California 92868
Phone: (714) 771-6900
Fax: (714) 538-1209

PLEASE FAX COI
TO DON BRANSFORD
916-928-3341

Send Results To:
Don Bransford
IT Corporation
1326 N. Market Boulevard
Sacramento, CA 95834-1912

Project:
Interstate 405 Improvement Project
Location: Route 405, Los Angeles County
Project #: 829965
Contract: 43A0023 EA #: 07-119851

77445

Sample ID:	Comments	Date	Time	Container	Total	Preservative Used	Matrix	Analysis			TAT
								6010: Lead Only	6010/7471: Title 22 Metals	9045: pH	
1 SW368-2-0.0		8/2/01	1040	glass jar	1	Ice	Soil	X			std
2 0.3			1042	glass jar	1	Ice	Soil	X		X	std
3 0.6			1043	glass jar	1	Ice	Soil	X			std
4 0.9			1045	glass jar	1	Ice	Soil	X		X	std
5 1.5			1047	glass jar	1	Ice	Soil	X			std
6 SW368-1-0.0			1116	glass jar	1	Ice	Soil	X		X	std
7 0.3			1118	glass jar	1	Ice	Soil	X			std
8 0.6			1121	glass jar	1	Ice	Soil	X		X	std
9 0.9			1124	glass jar	1	Ice	Soil	X			std
10 1.5	REAL DUE TO SAND			glass jar	1	Ice	Soil	X			std
11 SW368-1-DUP				glass jar	1	Ice	Soil	X			std
12 SW368-2-0.0			1135	glass jar	1	Ice	Soil	X			std
13 0.3			1145	glass jar	1	Ice	Soil	X		X	std
14 0.6	x		1146	glass jar	1	Ice	Soil	X			std
15 0.9			1148	glass jar	1	Ice	Soil	X		X	std
16 1.5			1154	glass jar	1	Ice	Soil	X			std
17 SW370-2-DUP				glass jar	1	Ice	Soil	X			std
18 SW370-1-0.0			1223	glass jar	1	Ice	Soil	X		X	std
19 0.3			1224	glass jar	1	Ice	Soil	X			std
20 0.6			1226	glass jar	1	Ice	Soil	X		X	std
21 0.9			1228	glass jar	1	Ice	Soil	X			std
22 1.5			1232	glass jar	1	Ice	Soil	X			std
23 SW370-1-DUP				glass jar	1	Ice	Soil	X			std
24 SW370-2-0.0			1304	glass jar	1	Ice	Soil	X			std
25 0.3			1306	glass jar	1	Ice	Soil	X		X	std
26 0.6			1308	glass jar	1	Ice	Soil	X			std
27 0.9			1309	glass jar	1	Ice	Soil	X		X	std
28 1.5			1318	glass jar	1	Ice	Soil	X			std
29 SW384-6-0.0			1354	glass jar	1	Ice	Soil	X			std
30 0.3			1355	glass jar	1	Ice	Soil	X			std

Notes:

Relinquished By: *Kathleen Waldo*
Print Name: *KATHLEEN WALDO*
Date: *8/3/01*
Time: *7:15*

Received By: *LUCAS JUNE*
Print Name: *LUCAS JUNE*
Date: *8-3-01*
Time: *7:15*

Relinquished By:
Print Name:
Date:
Time:

Received By: *DUONG VU*
Print Name: *DUONG VU*
Date: *8-3-01*
Time: *8:50*

Cooler Receipt Form

Client: IT Corporation Project: _____
 Cooler Received: 8/3 Cooler Opened: 8/3 By: [Signature]
 Signed: [Signature]

Was cooler scanned for presence of radioactivity, and noted if found? Yes / No

Were custody seals present on outside of cooler? Yes No

a: If Yes, were they intact? Yes / No

b: Were signature and date correct? Yes / No

Were custody papers completely filled out? Yes No

Did you sign and date the custody papers in the appropriate place? Yes No

Was a shippers packing slip attached to the cooler? Yes No

What kind of packing material was used? ice

Was sufficient ice used? Yes No Temperature: 10.3°C Date: 8/03

Were all bottles sealed in plastic bags? Yes No

Did all bottles arrive intact? Yes / No

Were all bottles labeled correctly? (ID, Analysis, Dates, Times) Yes / No

Were the correct containers included for the tests required? Yes No

Were all VOA vials checked for headspace? NA Yes / No

Was sufficient volume of sample sent in all containers? Yes / No

Were correct preservatives used? Yes / No

Approved by: [Signature] Date: 8/3/01

If not approved: Name of person contacted _____ Date: _____

SAMPLE RECEIVING pH Log

Client: IT Corporation Date/Time 08/03 - 855

Sample ID	pH	Reader's Initial	Standardization Date
1. <u>Deion King</u>	<u>1.0</u>	<u>IV</u>	<u>08/03</u>
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			

ASSOCIATED LABORATORIES

806 North Batavia
Orange, CA 92868

Date: October 24, 2001 and November 6, 2001

To: Don Bransford
IT Corporation

From: Jim McCall, PhD
Inorganics Director

Subject: Lab Response to Questions from Site Investigation Draft Report (Route 405 KP 34.28 /41.84; PM(21.3 / 26.0) Appendix C QA Forms.

1.a. QC Sample LR 77444 – 283833; LR 77445-283894, the presentation of non-detect values was confusing.

In the QA Reporting forms, one column is used to report the result or detection limit if non-detected. The second column is used to flag non-detected values. The lab is currently working on a system of reporting QA data using the LIMS computer data base system which would report QA data in a format similar to the Lab Report.

1.b. The percentage recovery for MS and MSD does not follow the formula as stated in item 15.

The MS and MSD recoveries are calculated by the formula:

$\% \text{ Recovery MS} = 100 * (\text{Spiked Sample Result} - \text{Sample Result}) / \text{Spike Added}$

1.c. Please provide justification on the use of samples with a non-detect value to measure accuracy using % recovery.

The lab currently measures accuracy (percent recovery) only for Matrix Spiked Samples and Lab Control Samples (LCS).

1.d. It will be helpful to record "DI-STLC" rather than "STLC" as the matrix in the QA Report form when DI-STLC is being monitored to avoid confusion.

We will report as DI-STLC in future QA Reports and amend the current one for sample 283833 (attached).

2. QC Sample 77445-283900, the concentration was reported as 1992 mg/Kg rather than 1990 mg/Kg on the report.

The QA report has been revised to 1990 mg/Kg.

2. QC Sample 77411-283619, the presentation of results is confusing.

As noted above, the format of QC reports will be changed in the future.

~~Date: November 6, 2001~~

Additional Response:

11. Appendix C, Chain of Custody dated 8/1/01 for lab request 77351, there was approximately an hour difference during the second phase of sample transfer.

The samples were picked up by our driver at 4:15 and placed in the refrigerator until the samples were logged in by the Sample Receiving personnel an hour later. During that time the samples were in the custody of the Sample Receiving Department.

1.b. Additional explanation of Matrix Spike calculations:

Page 24 from SW-846, Volume 1, Chapter One, Quality Control, describes the calculation of percent recovery of a matrix spiked sample. This is the equation we use to calculate the matrix spiked samples.

samples and Section 4.4.3 for laboratory samples). For QC purposes, if the number of samples in a group is greater than 20, then each group of 20 samples or less will all be handled as a separate batch.

BIAS:

The deviation due to matrix effects of the measured value ($x_s - x_u$) from a known spiked amount. Bias can be assessed by comparing a measured value to an accepted reference value in a sample of known concentration or by determining the recovery of a known amount of contaminant spiked into a sample (matrix spike). Thus, the bias (B) due to matrix effects based on a matrix spike is calculated as:

$$B = (x_s - x_u) - K$$

where:

x_s = measured value for spiked sample,
 x_u = measured value for unspiked sample, and
K = known value of the spike in the sample.

Using the following equation yields the percent recovery (%R).


$$\%R = 100 (x_s - x_u) / K$$

BLANK:

see Equipment Rinsate, Method Blank, Trip Blank.

CONTROL SAMPLE:

A QC sample introduced into a process to monitor the performance of the system.

DATA QUALITY OBJECTIVES (DQOs):

A statement of the overall level of uncertainty that a decision-maker is willing to accept in results derived from environmental data (see reference 2, EPA/QAMS, July 16, 1986). This is qualitatively distinct from quality measurements such as precision, bias, and detection limit.

DATA VALIDATION:

The process of evaluating the available data against the project DQOs to make sure that the objectives are met. Data validation may be very rigorous, or cursory, depending on project DQOs. The available data reviewed will include analytical results, field QC data and lab QC data, and may also include field records.

DUPLICATE:

see Matrix Duplicate, Field Duplicate, Matrix Spike Duplicate.

EQUIPMENT BLANK:

see Equipment Rinsate.

EQUIPMENT RINSATE:

A sample of analyte-free media which has been used to

ASSOCIATED LABORATORIES
QA REPORT FORM (MS/MSD)

QC Sample: LR 77445-283900

QC# 080601s3

Matrix: SOLID

Prep. Date: 08/06/01

Analysis Date: 08/07/01

Lab ID#'s in Batch: LR 77445

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = mg/Kg

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	7420	1990		99.5	2314	2333	NC	NC	0.8

NC = Not Calculated

ND = "U" - Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS&MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

% REC LIMITS = 75 -125
RPD LIMITS = 20

LCS Source(s) : QC21-LOT#QC2/91/1;QC7-LOT7A92/1

Element	Method	Result	TRUE	%Rec	L.Limit	H.Limit	Method Blank	
							MB	ND
Lead	7420	106	100	106.0	80%	120%	10.0	U

Notes : RESULT = Sample Result; TRUE = True Value; %Rec = 100*Result/True

L.LIMIT / H.LIMIT = Low / High Control Limits

MB = Preparation Blank; ND = " U " for Non- Detected

ASSOCIATED LABORATORIES
QA REPORT FORM (MS/MSD)

QC Sample: LR 77444-283833 QC# 081301STLC1
 Matrix: STLC (DI)
 Prep. Date: 08/13/01
 Analysis Date: 08/13/01
 Lab ID#'s in Batch: LR 77444, 77351

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = mg/L

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	7420	0.20	U	2.00	2.09	2.20	104.5	110.0	5.1

NC = Not Calculated

ND = "U" - Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

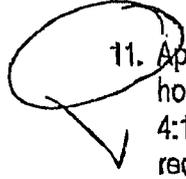
%REC-MS&MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

% REC LIMITS = 75 -125
RPD LIMITS = 20

9. Page 3-2, Section 3.2. Please provide a rationale or a brief discussion regarding the WET test for duplicates in samples RW2 and RW3. Please include the control limit range for the RPD and the method detection limit in the discussion for ease of referencing.

8/27
7351

10. Appendix A included Location 1 in the sampling event. No sampling was performed at this location; please revise the discussion to indicate that no sampling was performed at this location due to the presence paved (asphalted) area.



11. Appendix C, Chain of Custody dated 8/1/01 (for lab request 77351). There is approximately, an hour difference during the second phase of sample transfer. The samples were relinquished at 4:15 by Lavis Jones Jr. and received by Ken Hulsey at 1720 (5:20). The relinquishment and receipt of samples from one party to the next should only occur for short period. This time period was also observed in the other chain-of-custody. Please explain the transfer duration for this particular samples.

12. The Chain of Custody for soil samples SW366, SW368, SW370, SW384, RW4, RW5 submitted in lab request 77445 is missing.

13. The task order required a duplicate sample shall be collected at each location. During the review, the absence of a duplicate sample for SW 381 was noticed. Please explain this deviation from the workplan.

14. During the review, it was also noticed that samples at 1.5 meters for SW 352 and SW 368 were missing. Please provide a brief description regarding the missing samples.

15. Appendix C, QA Form. -Caltrans calculates the percent recovery per the equation below.

$$\% \text{ Recovery} = \frac{\text{Amount recovered from the spiked sample}}{\text{Amount spiked into the sample}} \times 100$$

$$\text{Amount recovered from the spiked sample} = \text{Spiked sample result} - \text{Sample Result}$$

Based on these equations, the following discrepancies were noticed.

1. QC Sample LR 77444-283833; LR 77445-283894

a. The sample result showed 0.2 mg/l results, the actual test results showed ND. The lab seems to use the detection-reporting limit as the result. Although a second column was used to indicate that the result is non-detect. This presentation of result is confusing.

This could be changed in future reports

b. The percentage recovery for MS and MSD does not follow the formula above. The laboratory seen to calculate the % Recovery using the formula below. These formulas did not consider the values of the unspiked sample. Please explain.

$$\% \text{ Recovery MS} = \frac{\text{Matrix Spike}}{\text{Spike Added}} \times 100;$$

$$= \frac{\text{MS} - \text{SAMP}}{\text{SA}} \times 100$$

7444
8/29
7445
8/24

$$\% \text{ Recovery MSD} = \frac{\text{Matrix Spike Dup}}{\text{Spike Added}} \times 100$$

c. Percentage recovery is defined as a measure of accuracy that is calculated as the measured value relative to the true value. If the true value is non-detect (ND) please provide justification on the use of samples with a non-detect value to measure accuracy using % recovery. *NOTE: only measured for MS/MSD. / not where sample is spiked.*

d. The QA report reported the matrix as STLC. There are two types of soluble results in this report, STLC and DI-STLC. It will be helpful to record "Di-STLC" rather than "STLC" as the matrix in the QA Report form when DI-STLC is being monitored to avoid confusion.

2. QC Sample 77445-283900

a. The concentration was reported as 1990 mg/kg, however, the QA report form report the concentration as 1992 mg/kg. Please revise the report to reflect the true concentration.

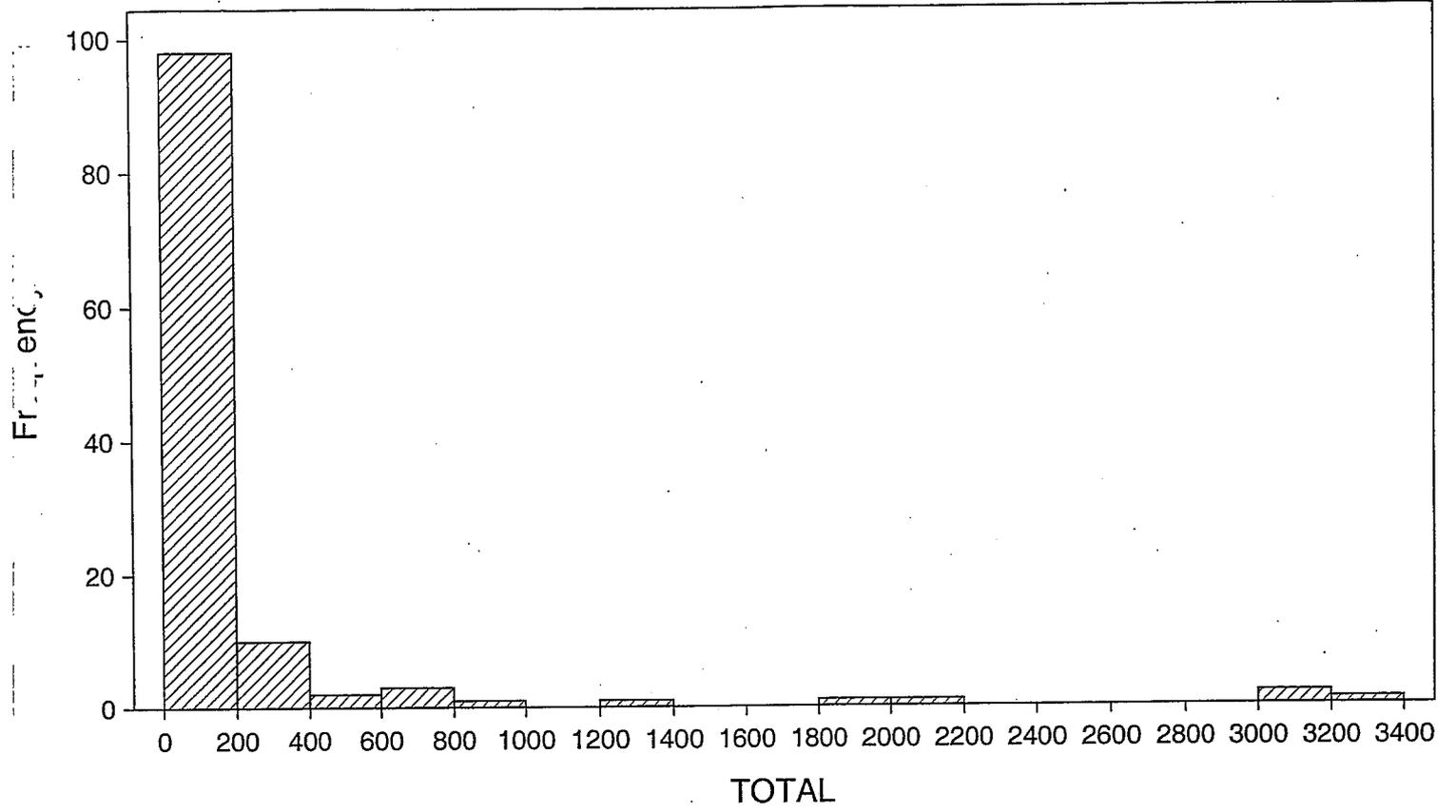
3. QC Sample 77411-283619

a. Please comment (a) on QC Sample LR 77444-283833, LR 77445-283894 above regarding presentation of results.

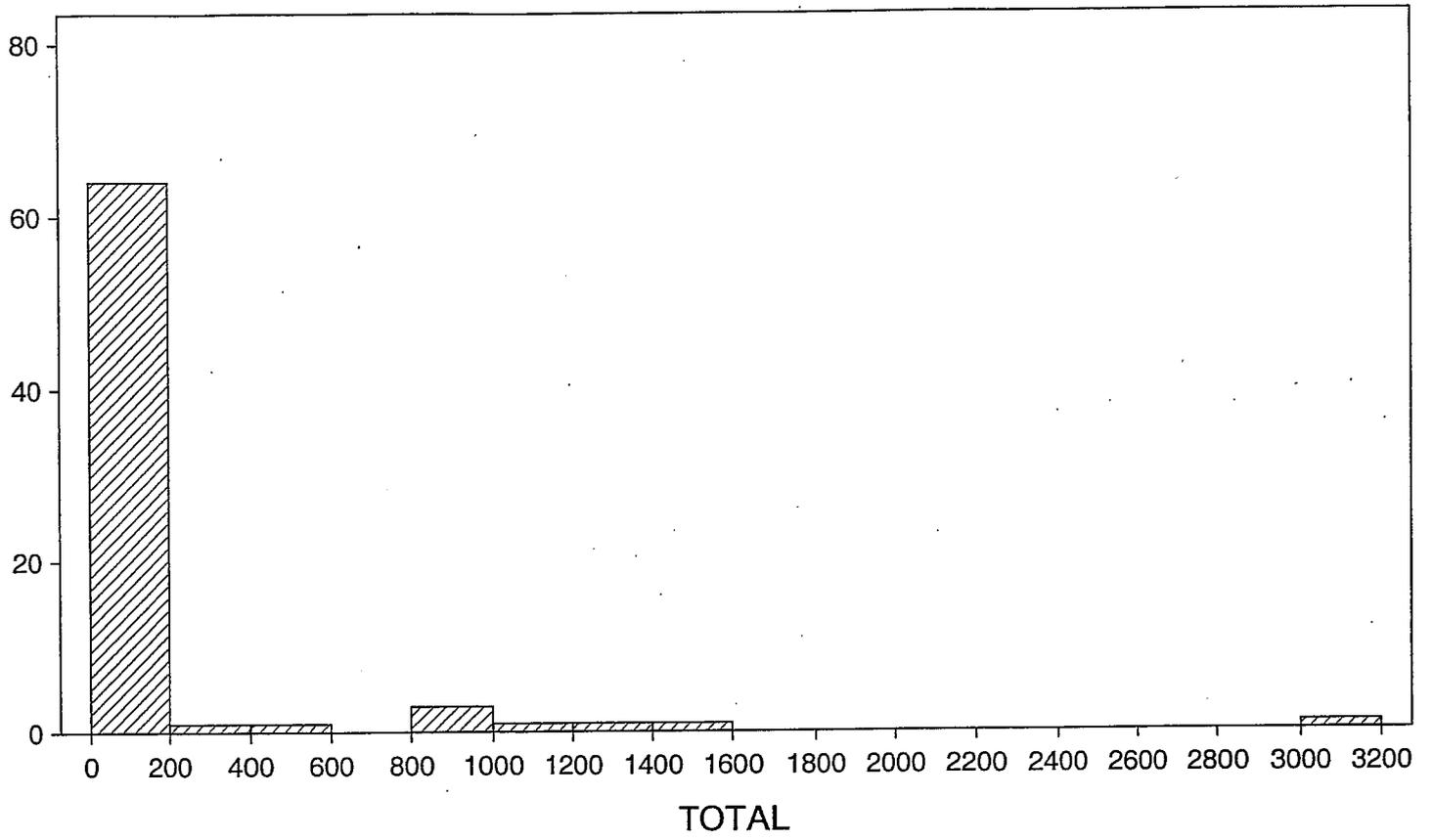
*Yerba Linda
9/26*

APPENDIX D
STATISTICAL ANALYSIS SPREADSHEETS

Histogram - Northbound



Histogram-Southbound



#	Depth (ft)	Sample I.D.	Total Lead (mg/kg)	Normalize by 3210	Transformed (Arcsine)
1	0.0	RW2-1-0.0	1,280.0	0.40	0.41
2	0.0	RW2-2-0.0	3,210.0	1.00	1.57
3	0.0	RW3-1-0.0	56.9	0.02	0.02
4	0.0	RW3-2-0.0	223.0	0.07	0.07
5	0.0	RW4-1-0.0	149.0	0.05	0.05
6	0.0	RW4-2-0.0	332.0	0.10	0.10
7	0.0	RW5-1-0.0	3,120.0	0.97	1.33
8	0.0	RW5-2-0.0	1,992.0	0.62	0.67
9	0.0	SW348-1-0.0	30.9	0.01	0.01
10	0.0	SW348-2-0.0	34.5	0.01	0.01
11	0.0	SW352-1-0.0	38.5	0.01	0.01
12	0.0	SW352-2-0.0	33.2	0.01	0.01
13	0.0	SW366-1-0.0	325.0	0.10	0.10
14	0.0	SW366-2-0.0	191.0	0.06	0.06
15	0.0	SW368-1-0.0	430.0	0.13	0.13
16	0.0	SW368-2-0.0	606.0	0.19	0.19
17	0.0	SW370-1-0.0	294.0	0.09	0.09
18	0.0	SW370-2-0.0	264.0	0.08	0.08
19	0.0	SW376-1-0.0	260.0	0.08	0.08
20	0.0	SW376-2-0.0	271.0	0.08	0.08
21	0.0	SW384-1-0.0	234.0	0.07	0.07
22	0.0	SW384-2-0.0	665.0	0.21	0.21
23	0.0	SW384-3-0.0	2,040.0	0.64	0.69
24	0.0	SW384-4-0.0	3,030.0	0.94	1.23
25	0.0	SW384-5-0.0	682.0	0.21	0.21
26	0.0	SW384-6-0.0	864.0	0.27	0.27
27	0.3	RW2-1-0.3	81.8	0.03	0.03
28	0.3	RW2-2-0.3	152.0	0.05	0.05
29	0.3	RW3-1-0.3	39.7	0.01	0.01
30	0.3	RW3-2-0.3	5.0	0.00	0.00
31	0.3	RW4-1-0.3	83.2	0.03	0.03
32	0.3	RW4-2-0.3	70.4	0.02	0.02
33	0.3	RW5-1-0.3	399.0	0.12	0.12
34	0.3	RW5-2-0.3	459.0	0.14	0.14
35	0.3	SW348-1-0.3	31.3	0.01	0.01
36	0.3	SW348-2-0.3	35.7	0.01	0.01
37	0.3	SW352-1-0.3	26.8	0.01	0.01
38	0.3	SW352-2-0.3	16.7	0.01	0.01
39	0.3	SW366-1-0.3	109.0	0.03	0.03
40	0.3	SW366-2-0.3	5.0	0.00	0.00
41	0.3	SW368-1-0.3	5.0	0.00	0.00
42	0.3	SW368-2-0.3	22.6	0.01	0.01
43	0.3	SW370-1-0.3	19.4	0.01	0.01
44	0.3	SW370-2-0.3	5.0	0.00	0.00
45	0.3	SW376-1-0.3	18.4	0.01	0.01
46	0.3	SW376-2-0.3	14.3	0.00	0.00
47	0.3	SW384-1-0.3	10.9	0.00	0.00

Interstate Route 405
Los Angeles County

Northbound

Data From EA #
07-119851

48	0.3	SW384-2-0.3	42.0	0.01	0.01
49	0.3	SW384-3-0.3	11.4	0.00	0.00
50	0.3	SW384-4-0.3	18.3	0.01	0.01
51	0.3	SW384-5-0.3	19.9	0.01	0.01
52	0.3	SW384-6-0.3	14.7	0.00	0.00
53	0.6	RW2-1-0.6	13.6	0.00	0.00
54	0.6	RW2-2-0.6	11.4	0.00	0.00
55	0.6	RW3-1-0.6	51.3	0.02	0.02
56	0.6	RW3-2-0.6	156.0	0.05	0.05
57	0.6	RW4-1-0.6	46.4	0.01	0.01
58	0.6	RW4-2-0.6	51.0	0.02	0.02
59	0.6	RW5-1-0.6	73.3	0.02	0.02
60	0.6	RW5-2-0.6	50.3	0.02	0.02
61	0.6	SW348-1-0.6	29.7	0.01	0.01
62	0.6	SW348-2-0.6	15.7	0.00	0.00
63	0.6	SW352-1-0.6	50.4	0.02	0.02
64	0.6	SW352-2-0.6	68.8	0.02	0.02
65	0.6	SW366-1-0.6	14.6	0.00	0.00
66	0.6	SW366-2-0.6	5.0	0.00	0.00
67	0.6	SW368-1-0.6	5.0	0.00	0.00
68	0.6	SW368-2-0.6	5.0	0.00	0.00
69	0.6	SW370-1-0.6	5.0	0.00	0.00
70	0.6	SW370-2-0.6	15.0	0.00	0.00
71	0.6	SW376-1-0.6	5.0	0.00	0.00
72	0.6	SW376-2-0.6	10.4	0.00	0.00
73	0.6	SW384-1-0.6	56.1	0.02	0.02
74	0.6	SW384-2-0.6	14.7	0.00	0.00
75	0.6	SW384-3-0.6	13.8	0.00	0.00
76	0.6	SW384-4-0.6	44.6	0.01	0.01
77	0.6	SW384-5-0.6	11.0	0.00	0.00
78	0.6	SW384-6-0.6	17.0	0.01	0.01
79	0.9	RW2-1-0.9	13.5	0.00	0.00
80	0.9	RW2-2-0.9	17.3	0.01	0.01
81	0.9	RW3-1-0.9	59.9	0.02	0.02
82	0.9	RW3-2-0.9	5.0	0.00	0.00
83	0.9	RW4-1-0.9	27.5	0.01	0.01
84	0.9	RW4-2-0.9	191.0	0.06	0.06
85	0.9	RW5-1-0.9	91.5	0.03	0.03
86	0.9	RW5-2-0.9	5.0	0.00	0.00
87	0.9	SW348-1-0.9	29.2	0.01	0.01
88	0.9	SW348-2-0.9	5.0	0.00	0.00
89	0.9	SW352-1-0.9	32.9	0.01	0.01
90	0.9	SW352-2-0.9	86.9	0.03	0.03
91	0.9	SW366-1-0.9	18.1	0.01	0.01
92	0.9	SW366-2-0.9	5.0	0.00	0.00
93	0.9	SW368-1-0.9	5.0	0.00	0.00
94	0.9	SW368-2-0.9	5.0	0.00	0.00
95	0.9	SW370-1-0.9	5.0	0.00	0.00
96	0.9	SW370-2-0.9	14.4	0.00	0.00

97	0.9	SW376-1-0.9	14.5	0.00	0.00
98	0.9	SW376-2-0.9	5.0	0.00	0.00
99	0.9	SW384-1-0.9	5.0	0.00	0.00
100	0.9	SW384-2-0.9	5.0	0.00	0.00
101	0.9	SW384-3-0.9	20.5	0.01	0.01
102	0.9	SW384-4-0.9	32.6	0.01	0.01
103	0.9	SW384-5-0.9	29.8	0.01	0.01
104	0.9	SW384-6-0.9	38.1	0.01	0.01
105	1.5	SW348-1-1.5	45.0	0.01	0.01
106	1.5	SW348-2-1.5	12.2	0.00	0.00
107	1.5	SW352-2-1.5	386.0	0.12	0.12
108	1.5	SW366-1-1.5	5.0	0.00	0.00
109	1.5	SW366-2-1.5	5.0	0.00	0.00
110	1.5	SW368-2-1.5	5.0	0.00	0.00
111	1.5	SW370-1-1.5	12.4	0.00	0.00
112	1.5	SW370-2-1.5	13.9	0.00	0.00
113	1.5	SW376-1-1.5	5.0	0.00	0.00
114	1.5	SW376-2-1.5	5.0	0.00	0.00
115	1.5	SW384-1-1.5	21.3	0.01	0.01
116	1.5	SW384-2-1.5	189.0	0.06	0.06
117	1.5	SW384-3-1.5	16.4	0.01	0.01
118	1.5	SW384-4-1.5	14.5	0.00	0.00
119	1.5	SW384-5-1.5	76.8	0.02	0.02
120	1.5	SW384-6-1.5	14.0	0.00	0.00

Number of samples, n	120	Max. TTLC	120.00
Mean (Average), x	206.7	3,210.0	0.08
Delta = RT - Mean	143.3		
Appropriate no. of Samples	25	< 120 Samples	
Standard Deviation of a Sample, S	561.3		0.23
Standard Deviation of the Mean	51.2		0.02
Variance of a Sample, S ²	315,088.7	> 206.7 (Mean)	
90% t-value for (n-1) samples	1.289	Need to	1.289
90% Upper Confidence Level	272.8	Transform Data	0.10
Reverse Transformation for 90%			330.62
			< 350 mg/kg
95% t-value for (n-1) samples			1.658
95% Upper Confidence Level			0.11
Reverse Transformation for 95%			355.80
needs to be evaluated by layer			> 350 mg/kg
Northbound regression equation: STLC = 0.0254*TTLC + 0.4408			
Predicted STLC			8.84
Hazardous			> 5 mg/kg

#	Depth (ft)	Sample I.D.	Total Lead (mg/kg)	Normalize by 3140	Transformed (Arcsine)
1	0.0	RW6-1-0.0	104.4	0.03	0.03
2	0.0	RW6-2-0.0	65.7	0.02	0.02
3	0.0	RW6-3-0.0	3,140.0	1.00	1.57
4	0.0	RW7-1-0.0	1,510.0	0.48	0.50
5	0.0	RW7-2-0.0	1,104.0	0.35	0.36
6	0.0	RW8-1-0.0	930.0	0.30	0.30
7	0.0	RW8-2-0.0	1,000.0	0.32	0.32
8	0.0	RW10-1-0.0	493.1	0.16	0.16
9	0.0	RW10-2-0.0	928.2	0.30	0.30
10	0.0	SW381-1-0.0	144.0	0.05	0.05
11	0.0	SW381-2-0.0	39.3	0.01	0.01
12	0.0	SW387-1-0.0	180.0	0.06	0.06
13	0.0	SW387-2-0.0	103.0	0.03	0.03
14	0.0	SW397-1-0.0	63.5	0.02	0.02
15	0.0	SW397-2-0.0	42.4	0.01	0.01
16	0.0	RW397-1-0.0	53.0	0.02	0.02
17	0.0	RW397-2-0.0	34.0	0.01	0.01
18	0.3	RW6-1-0.3	43.3	0.01	0.01
19	0.3	RW6-2-0.3	39.4	0.01	0.01
20	0.3	RW6-3-0.3	49.6	0.02	0.02
21	0.3	RW7-1-0.3	21.5	0.01	0.01
22	0.3	RW7-2-0.3	89.8	0.03	0.03
23	0.3	RW8-1-0.3	51.6	0.02	0.02
24	0.3	RW8-2-0.3	1,340.0	0.43	0.44
25	0.3	RW10-1-0.3	131.0	0.04	0.04
26	0.3	RW10-2-0.3	319.2	0.10	0.10
27	0.3	SW381-1-0.3	50.4	0.02	0.02
28	0.3	SW381-2-0.3	11.6	0.00	0.00
29	0.3	SW387-1-0.3	16.0	0.01	0.01
30	0.3	SW387-2-0.3	5.0	0.00	0.00
31	0.3	SW397-1-0.3	38.9	0.01	0.01
32	0.3	SW397-2-0.3	5.0	0.00	0.00
33	0.3	RW397-1-0.3	5.0	0.00	0.00
34	0.3	RW397-2-0.3	44.6	0.01	0.01
35	0.6	RW6-1-0.6	10.8	0.00	0.00
36	0.6	RW6-2-0.6	45.0	0.01	0.01
37	0.6	RW6-3-0.6	11.3	0.00	0.00
38	0.6	RW7-1-0.6	5.0	0.00	0.00
39	0.6	RW7-2-0.6	5.0	0.00	0.00
40	0.6	RW8-1-0.6	30.3	0.01	0.01
41	0.6	RW8-2-0.6	173.0	0.06	0.06
42	0.6	RW10-1-0.6	21.5	0.01	0.01
43	0.6	RW10-2-0.6	16.3	0.01	0.01
44	0.6	SW381-2-0.6	10.3	0.00	0.00
45	0.6	SW387-1-0.6	11.0	0.00	0.00
46	0.6	SW387-2-0.6	5.0	0.00	0.00
47	0.6	SW397-1-0.6	18.6	0.01	0.01

48	0.6	SW397-2-0.6	16.3	0.01	0.01
49	0.6	RW397-1-0.6	10.3	0.00	0.00
50	0.6	RW397-2-0.6	15.6	0.00	0.00
51	0.9	RW6-1-0.9	18.8	0.01	0.01
52	0.9	RW6-2-0.9	11.9	0.00	0.00
53	0.9	RW6-3-0.9	5.0	0.00	0.00
54	0.9	RW7-1-0.9	11.4	0.00	0.00
55	0.9	RW7-2-0.9	26.8	0.01	0.01
56	0.9	RW8-1-0.9	25.5	0.01	0.01
57	0.9	RW8-2-0.9	80.4	0.03	0.03
58	0.9	RW10-1-0.9	5.0	0.00	0.00
59	0.9	RW10-2-0.9	46.2	0.01	0.01
60	0.9	SW381-2-0.9	10.7	0.00	0.00
61	0.9	SW387-1-0.9	5.0	0.00	0.00
62	0.9	SW387-2-0.9	22.1	0.01	0.01
63	0.9	SW397-1-0.9	12.3	0.00	0.00
64	0.9	SW397-2-0.9	5.0	0.00	0.00
65	0.9	RW397-1-0.9	5.0	0.00	0.00
66	0.9	RW397-2-0.9	12.6	0.00	0.00
67	1.5	SW381-2-1.5	5.0	0.00	0.00
68	1.5	SW387-1-1.5	5.0	0.00	0.00
69	1.5	SW387-2-1.5	17.1	0.01	0.01
70	1.5	SW397-1-1.5	13.3	0.00	0.00
71	1.5	SW397-2-1.5	11.9	0.00	0.00
72	1.5	RW397-1-1.5	12.9	0.00	0.00
73	1.5	RW397-2-1.5	5.0	0.00	0.00
Number of samples, n			73	Max. TTLC	73.00
Mean (Average), x			177.7	3,140.0	0.07
Delta = RT - Mean			172.3		
Appropriate no. of Samples			13	< 73 Samples	
Standard Deviation of a Sample, S			472.8		0.21
Standard Deviation of the Mean			55.3		0.02
Variance of a Sample, S^2			223,581.3	> 177.7 (Mean)	
90% t-value for (n-1) samples			1.293	Need to	1.293
90% Upper Confidence Level			249.3	Transform Data	0.10
Reverse Transformation for 90%					302.50
					< 350 mg/kg
95% t-value for (n-1) samples					1.666
95% Upper Confidence Level					0.11
Reverse Transformation for 95%					330.66
					< 350 mg/kg
Southbound regression equation: $STLC = 0.0258 * TTLC + 1.1897$					
Predicted STLC					8.99
Hazardous					> 5 mg/kg

#	Depth (m)	Sample I.D.	Total Lead (mg/kg)	Normalize by 3210	Transformed (Arcsine)
1	0.0	RW2-1-0.0	1,280.0	0.40	0.41
2	0.0	RW2-2-0.0	3,210.0	1.00	1.57
3	0.3	RW2-1-0.3	81.8	0.03	0.03
4	0.3	RW2-2-0.3	152.0	0.05	0.05
5	0.6	RW2-1-0.6	13.6	0.00	0.00
6	0.6	RW2-2-0.6	11.4	0.00	0.00
7	0.9	RW2-1-0.9	13.5	0.00	0.00
8	0.9	RW2-2-0.9	17.3	0.01	0.01

Number of samples, n	8	Max. TTLC	8.00
Mean (Average), x	597.5	3,210.0	0.26
Delta = RT - Mean	(247.5)		
Appropriate no. of Samples	43	> 8 Samples	
Standard Deviation of a Sample, S	1,141.3		0.55
Standard Deviation of the Mean	403.5		0.19
Variance of a Sample, S ²	1,302,502.8	> 597.5 (Mean)	
90% t-value for (n-1) samples	1.415	Need to	1.415
90% Upper Confidence Level	1,168.4	Transform Data	0.53
Reverse Transformation for 90% needs to be evaluated by layer			1,631.21 > 350 mg/kg
95% t-value for (n-1) samples			1.895
95% Upper Confidence Level			0.63
Reverse Transformation for 95% needs to be evaluated by layer			1,880.74 > 350 mg/kg

Data Set: all samples

#	Depth (m)	Sample I.D.	Total Lead (mg/kg)	Normalize by 152	Transformed (Arcsine)
1	0.3	RW2-1-0.3	81.8	0.54	0.57
2	0.3	RW2-2-0.3	152.0	1.00	1.57
3	0.6	RW2-1-0.6	13.6	0.09	0.09
4	0.6	RW2-2-0.6	11.4	0.08	0.08
5	0.9	RW2-1-0.9	13.5	0.09	0.09
6	0.9	RW2-2-0.9	17.3	0.11	0.11
Number of samples, n			6	Max. TTLC	6.00
Mean (Average), x			48.3	152.0	0.42
Delta = RT - Mean			301.7		
Appropriate no. of Samples			0	< 6 Samples	
Standard Deviation of a Sample, S			57.6		0.60
Standard Deviation of the Mean			23.5		0.24
Variance of a Sample, S ²			3,322.7	> 48.3 (Mean)	
90% t-value for (n-1) samples			1.476	Need to	1.476
90% Upper Confidence Level			83.0	Transform Data	0.78
Reverse Transformation for 90% total within variance					106.58 < 350 mg/kg
95% t-value for (n-1) samples					2.015
95% Upper Confidence Level					0.91
Reverse Transformation for 95% total within variance					119.85 < 350 mg/kg
Northbound regression equation: STLC = 0.0254*TTLC + 0.4408					
Predicted STLC					3.15
Non-Hazardous					< 5 mg/kg

Data Set: all samples except 0.0 meter interval

#	Depth (m)	Sample I.D.	Total Lead (mg/kg)	Normalize by 223	Transformed (Arcsine)
1	0.0	RW3-1-0.0	56.9	0.26	0.26
2	0.0	RW3-2-0.0	223.0	1.00	1.57
3	0.3	RW3-1-0.3	39.7	0.18	0.18
4	0.3	RW3-2-0.3	5.0	0.02	0.02
5	0.6	RW3-1-0.6	51.3	0.23	0.23
6	0.6	RW3-2-0.6	156.0	0.70	0.77
7	0.9	RW3-1-0.9	59.9	0.27	0.27
8	0.9	RW3-2-0.9	5.0	0.02	0.02

Number of samples, n	8	Max. TTLC	8.00
Mean (Average), x	74.6	223.0	0.42
Delta = RT - Mean	275.4		
Appropriate no. of Samples	0	< 8 Samples	
Standard Deviation of a Sample, S	76.2		0.52
Standard Deviation of the Mean	26.9		0.18
Variance of a Sample, S ²	5,803.9	> 74.6 (Mean)	
90% t-value for (n-1) samples	1.415	Need to	1.415
90% Upper Confidence Level	112.7	Transform Data	0.68
Reverse Transformation for 90% total within variance			139.80 <
			< 350 mg/kg
95% t-value for (n-1) samples			1.895
95% Upper Confidence Level			0.77
Reverse Transformation for 95% total within variance			154.62
			< 350 mg/kg
Northbound regression equation: STLC = 0.0254*TTLC + 0.4408			
Predicted STLC			3.99 <
Non-Hazardous			< 5 mg/kg

Data Set: all samples

#	Depth (m)	Sample I.D.	Total Lead (mg/kg)	Normalize by 332	Transformed (Arcsine)
1	0.0	RW4-1-0.0	149.0	0.45	0.47
2	0.0	RW4-2-0.0	332.0	1.00	1.57
3	0.3	RW4-1-0.3	83.2	0.25	0.25
4	0.3	RW4-2-0.3	70.4	0.21	0.21
5	0.6	RW4-1-0.6	46.4	0.14	0.14
6	0.6	RW4-2-0.6	51.0	0.15	0.15
7	0.9	RW4-1-0.9	27.5	0.08	0.08
8	0.9	RW4-2-0.9	191.0	0.58	0.61

Number of samples, n	8	Max. TTLC	8.00
Mean (Average), \bar{x}	118.8	332.0	0.44
Delta = RT - Mean	231.2		
Appropriate no. of Samples	0	< 8 Samples	
Standard Deviation of a Sample, S	102.4		0.49
Standard Deviation of the Mean	36.2		0.17
Variance of a Sample, S ²	10,480.5	> 118.8 (Mean)	
90% t-value for (n-1) samples	1.415	Need to	1.415
90% Upper Confidence Level	170.0	Transform Data	0.68
Reverse Transformation for 90% total within variance			209.48 <
			< 350 mg/kg
95% t-value for (n-1) samples			1.895
95% Upper Confidence Level			0.77
Reverse Transformation for 95% total within variance			230.22
			< 350 mg/kg
Northbound regression equation: $STLC = 0.0254 * TTLC + 0.4408$			
Predicted STLC			5.76 <
Hazardous			> 5 mg/kg

Data Set: all samples

#	Depth (m)	Sample I.D.	Total Lead (mg/kg)	Normalize by 3120	Transformed (Square Root)
1	0.0	RW5-1-0.0	3,120.0	1.00	1.57
2	0.0	RW5-2-0.0	1,990.0	0.64	0.69
3	0.3	RW5-1-0.3	399.0	0.13	0.13
4	0.3	RW5-2-0.3	459.0	0.15	0.15
5	0.6	RW5-1-0.6	73.3	0.02	0.02
6	0.6	RW5-2-0.6	50.3	0.02	0.02
7	0.9	RW5-1-0.9	57.5	0.02	0.02
8	0.9	RW5-2-0.9	5.0	0.00	0.00

Number of samples, n	8	Max. TTLC	8.00
Mean (Average), x	769.3	3,120.0	0.32
Delta = RT - Mean	(419.3)		
Appropriate no. of Samples	15	> 8 Samples	
Standard Deviation of a Sample, S	1,155.2		0.55
Standard Deviation of the Mean	408.4		0.20
Variance of a Sample, S ²	1,334,499.7	> 769.3 (Mean)	
90% t-value for (n-1) samples	1.415	Need to	1.415
90% Upper Confidence Level	1,347.2	Transform Data	0.60
Reverse Transformation for 90% needs to be evaluated by layer			1,765.40 <
			> 350 mg/kg
95% t-value for (n-1) samples			1.895
95% Upper Confidence Level			0.70
Reverse Transformation for 95% needs to be evaluated by layer			1,998.58 <
			> 350 mg/kg

Data Set: all samples

#	Depth (m)	Sample I.D.	Total Lead (mg/kg)	Normalize by 459	Transformed (Arcsine)
1	0.3	RW5-1-0.3	399.0	0.87	1.05
2	0.3	RW5-2-0.3	459.0	1.00	1.57
3	0.6	RW5-1-0.6	73.3	0.16	0.16
4	0.6	RW5-2-0.6	50.3	0.11	0.11
5	0.9	RW5-1-0.9	57.5	0.13	0.13
6	0.9	RW5-2-0.9	5.0	0.01	0.01
Number of samples, n			6	Max. TTLC	6.00
Mean (Average), x			174.0	459.0	0.51
Delta = RT - Mean			176.0		
Appropriate no. of Samples			3	< 6 Samples	
Standard Deviation of a Sample, S			199.7		0.65
Standard Deviation of the Mean			81.5		0.26
Variance of a Sample, S ²			39,885.1	> 174 (Mean)	
90% t-value for (n-1) samples			1.476	Need to	1.476
90% Upper Confidence Level			294.3	Transform Data	0.90
Reverse Transformation for 90%					358.31
needs to be evaluated by layer					> 350 mg/kg
95% t-value for (n-1) samples					2.015
95% Upper Confidence Level					1.04
Reverse Transformation for 95%					395.46
needs to be evaluated by layer					> 350 mg/kg

Data Set: all samples except 0.0 meter interval

#	Depth (m)	Sample I.D.	Total Lead (mg/kg)	Normalize by 91.5	Transformed (Arcsine)
1	0.6	RW5-1-0.6	73.3	0.80	0.93
2	0.6	RW5-2-0.6	50.3	0.55	0.58
3	0.9	RW5-1-0.9	91.5	1.00	1.57
4	0.9	RW5-2-0.9	5.0	0.05	0.05
Number of samples, n			4	Max. TTLC	4.00
Mean (Average), x			55.0	91.5	0.78
Delta = RT - Mean			295.0		
Appropriate no. of Samples			0	< 4 Samples	
Standard Deviation of a Sample, S			37.4		0.64
Standard Deviation of the Mean			18.7		0.32
Variance of a Sample, S ²			1,396.4	> 55 (Mean)	
90% t-value for (n-1) samples			1.638	Need to	1.638
90% Upper Confidence Level			85.6	Transform Data	1.30
Reverse Transformation for 90% total within variance					88.28 < 350 mg/kg
95% t-value for (n-1) samples					2.353
95% Upper Confidence Level					1.53
Reverse Transformation for 95% total within variance					91.43 < 350 mg/kg
Northbound regression equation: STLC = 0.0254*TTLC + 0.4408					
Predicted STLC					2.68
Non-Hazardous					< 5 mg/kg

Data Set: all samples except 0.0 and 0.3 meter interval

#	Depth (m)	Sample I.D.	Total Lead (mg/kg)	Normalize by 3140	Transformed (Arcsine)
1	0.0	RW6-1-0.0	104.4	0.03	0.03
2	0.0	RW6-2-0.0	65.7	0.02	0.02
3	0.0	RW6-3-0.0	3,140.0	1.00	1.57
4	0.3	RW6-1-0.3	43.3	0.01	0.01
5	0.3	RW6-2-0.3	39.4	0.01	0.01
6	0.3	RW6-3-0.3	49.6	0.02	0.02
7	0.6	RW6-1-0.6	10.8	0.00	0.00
8	0.6	RW6-2-0.6	45.0	0.01	0.01
9	0.6	RW6-3-0.6	11.3	0.00	0.00
10	0.9	RW6-1-0.9	18.8	0.01	0.01
11	0.9	RW6-2-0.9	11.9	0.00	0.00
12	0.9	RW6-3-0.9	5.0	0.00	0.00
Number of samples, n			12	Max. TTLC	12.00
Mean (Average), x			295.4	3,140.0	0.14
Delta = RT - Mean			54.6		
Appropriate no. of Samples			501	> 12 Samples	
Standard Deviation of a Sample, S			896.3		0.45
Standard Deviation of the Mean			258.7		0.13
Variance of a Sample, S ²			803,286.4	> 295.4 (Mean)	
90% t-value for (n-1) samples			1.363	Need to	1.363
90% Upper Confidence Level			648.2	Transform Data	0.32
Reverse Transformation for 90% needs to be evaluated by layer					984.25 > 350 mg/kg
95% t-value for (n-1) samples					1.796
95% Upper Confidence Level					0.38
Reverse Transformation for 95% needs to be evaluated by layer					1,150.17 > 350 mg/kg

Data Set: all samples

#	Depth (m)	Sample I.D.	Total Lead (mg/kg)	Normalize by 49.6	Transformed (Arcsine)
1	0.3	RW6-1-0.3	43.3	0.87	1.06
2	0.3	RW6-2-0.3	39.4	0.79	0.92
3	0.3	RW6-3-0.3	49.6	1.00	1.57
4	0.6	RW6-1-0.6	10.8	0.22	0.22
5	0.6	RW6-2-0.6	45.0	0.91	1.14
6	0.6	RW6-3-0.6	11.3	0.23	0.23
7	0.9	RW6-1-0.9	18.8	0.38	0.39
8	0.9	RW6-2-0.9	11.9	0.24	0.24
9	0.9	RW6-3-0.9	5.0	0.10	0.10
Number of samples, n			9	Max. TTLC	9.00
Mean (Average), x			26.1	49.6	0.65
Delta = RT - Mean			323.9		
Appropriate no. of Samples			0	< 9 Samples	
Standard Deviation of a Sample, S			17.8		0.53
Standard Deviation of the Mean			5.9		0.18
Variance of a Sample, S ²			317.1	> 26.1 (Mean)	
90% t-value for (n-1) samples			1.397	Need to	1.397
90% Upper Confidence Level			34.4	Transform Data	0.90
Reverse Transformation for 90% total within variance					38.77 < 350 mg/kg
95% t-value for (n-1) samples					1.860
95% Upper Confidence Level					0.98
Reverse Transformation for 95% total within variance					41.16 < 350 mg/kg
Southbound regression equation: STLC = 0.0256*TTLC + 1.41					
Predicted STLC					2.40
Non-Hazardous					< 5 mg/kg

Data Set: all samples except 0.0 meter interval

#	Depth (m)	Sample I.D.	Total Lead (mg/kg)	Normalize by 1510	Transformed (Arcsine)
1	0.0	RW7-1-0.0	1,510.0	1.00	1.57
2	0.0	RW7-2-0.0	1,104.0	0.73	0.82
3	0.3	RW7-1-0.3	21.5	0.01	0.01
4	0.3	RW7-2-0.3	89.8	0.06	0.06
5	0.6	RW7-1-0.6	5.0	0.00	0.00
6	0.6	RW7-2-0.6	5.0	0.00	0.00
7	0.9	RW7-1-0.9	11.4	0.01	0.01
8	0.9	RW7-2-0.9	26.8	0.02	0.02
Number of samples, n			8	Max. TTLC	8.00
Mean (Average), x			346.7	1,510.0	0.31
Delta = RT - Mean			3.3		
Appropriate no. of Samples			66,382	> 8 Samples	
Standard Deviation of a Sample, S			603.2		0.58
Standard Deviation of the Mean			213.3		0.21
Variance of a Sample, S ²			363,829.0	> 346.7 (Mean)	
90% t-value for (n-1) samples			1.415	Need to	1.415
90% Upper Confidence Level			648.4	Transform Data	0.60
Reverse Transformation for 90% needs to be evaluated by layer					856.12 > 350 mg/kg
95% t-value for (n-1) samples					1.895
95% Upper Confidence Level					0.70
Reverse Transformation for 95% needs to be evaluated by layer					974.37 > 350 mg/kg

Data Set: all samples

#	Depth (m)	Sample I.D.	Total Lead (mg/kg)	Normalize by 89.8	Transformed (Arcsine)
1	0.3	RW7-1-0.3	21.5	0.24	0.24
2	0.3	RW7-2-0.3	89.8	1.00	1.57
3	0.6	RW7-1-0.6	5.0	0.06	0.06
4	0.6	RW7-2-0.6	5.0	0.06	0.06
5	0.9	RW7-1-0.9	11.4	0.13	0.13
6	0.9	RW7-2-0.9	26.8	0.30	0.30
Number of samples, n			6	Max. TTLC	6.00
Mean (Average), x			26.6	89.8	0.39
Delta = RT - Mean			323.4		
Appropriate no. of Samples			0	< 6 Samples	
Standard Deviation of a Sample, S			32.2		0.59
Standard Deviation of the Mean			13.1		0.24
Variance of a Sample, S ²			1,036.9	> 26.6 (Mean)	
90% t-value for (n-1) samples			1.476	Need to	1.476
90% Upper Confidence Level			46.0	Transform Data	0.75
Reverse Transformation for 90% total within variance					60.91 < 350 mg/kg
95% t-value for (n-1) samples					2.015
95% Upper Confidence Level					0.87
Reverse Transformation for 95% total within variance					68.89 < 350 mg/kg
Southbound regression equation: $STLC = 0.0256 * TTLC + 1.41$					
Predicted STLC					2.97
Non-Hazardous					< 5 mg/kg

Data Set: all samples except 0.0 meter interval

#	Depth (m)	Sample I.D.	Total Lead (mg/kg)	Normalize by 1340	Transformed (Arcsine)
1	0.0	RW8-1-0.0	930.4	0.69	0.77
2	0.0	RW8-2-0.0	1,000.0	0.75	0.84
3	0.3	RW8-1-0.3	51.6	0.04	0.04
4	0.3	RW8-2-0.3	1,340.0	1.00	1.57
5	0.6	RW8-1-0.6	30.3	0.02	0.02
6	0.6	RW8-2-0.6	173.0	0.13	0.13
7	0.9	RW8-1-0.9	25.5	0.02	0.02
8	0.9	RW8-2-0.9	80.4	0.06	0.06

Number of samples, n	8	Max. TTLC	8.00
Mean (Average), x	453.9	1,340.0	0.43
Delta = RT - Mean	(103.9)		
Appropriate no. of Samples	54	> 8 Samples	
Standard Deviation of a Sample, S	541.6		0.57
Standard Deviation of the Mean	191.5		0.20
Variance of a Sample, S ²	293,380.9	> 453.9 (Mean)	
90% t-value for (n-1) samples	1.415	Need to	1.415
90% Upper Confidence Level	724.9	Transform Data	0.72
Reverse Transformation for 90% needs to be evaluated by layer			881.65 > 350 mg/kg
95% t-value for (n-1) samples			1.895
95% Upper Confidence Level			0.82
Reverse Transformation for 95% needs to be evaluated by layer			975.44 > 350 mg/kg

Data Set: all samples

#	Depth (m)	Sample I.D.	Total Lead (mg/kg)	Normalize by 1340	Transformed (Arcsine)
1	0.3	RW8-1-0.3	51.6	0.04	0.04
2	0.3	RW8-2-0.3	1,340.0	1.00	1.57
3	0.6	RW8-1-0.6	30.3	0.02	0.02
4	0.6	RW8-2-0.6	173.0	0.13	0.13
5	0.9	RW8-1-0.9	25.5	0.02	0.02
6	0.9	RW8-2-0.9	80.4	0.06	0.06
Number of samples, n			6	Max. TTLC	6.00
Mean (Average), x			283.5	1,340.0	0.31
Delta = RT - Mean			66.5		
Appropriate no. of Samples			133	> 6 Samples	
Standard Deviation of a Sample, S			520.4		0.62
Standard Deviation of the Mean			212.5		0.25
Variance of a Sample, S ²			270,820.8	> 283.5 (Mean)	
90% t-value for (n-1) samples			1.476	Need to	1.476
90% Upper Confidence Level			597.0	Transform Data	0.68
Reverse Transformation for 90%					843.27
needs to be evaluated by layer					> 350 mg/kg
95% t-value for (n-1) samples					2.015
95% Upper Confidence Level					0.82
Reverse Transformation for 95%					977.22
needs to be evaluated by layer					> 350 mg/kg

Data Set: all samples except 0.0 meter interval

#	Depth (m)	Sample I.D.	Total Lead (mg/kg)	Normalize by 172.8	Transformed (Arcsine)
1	0.6	RW8-1-0.6	30.3	0.18	0.18
2	0.6	RW8-2-0.6	172.8	1.00	1.57
3	0.9	RW8-1-0.9	25.5	0.15	0.15
4	0.9	RW8-2-0.9	80.4	0.47	0.48
Number of samples, n			4	Max. TTLC	4.00
Mean (Average), x			77.3	172.8	0.59
Delta = RT - Mean			272.8		
Appropriate no. of Samples			0	< 4 Samples	
Standard Deviation of a Sample, S			68.4		0.67
Standard Deviation of the Mean			34.2		0.33
Variance of a Sample, S ²			4,674.0	> 77.3 (Mean)	
90% t-value for (n-1) samples			1.638	Need to	1.638
90% Upper Confidence Level			133.2	Transform Data	1.14
Reverse Transformation for 90% total within variance					157.15 < 350 mg/kg
95% t-value for (n-1) samples					2.353
95% Upper Confidence Level					1.38
Reverse Transformation for 95% total within variance					169.70 < 350 mg/kg
Southbound regression equation: $STLC = 0.0256 * TTLC + 1.41$					
Predicted STLC					5.43
Hazardous					> 5 mg/kg

Data Set: all samples except 0.0 and 0.3 meter intervals

#	Depth (m)	Sample I.D.	Total Lead (mg/kg)	Normalize by 928.2	Transformed (Arcsine)
1	0.0	RW10-1-0.0	493.0	0.53	0.56
2	0.0	RW10-2-0.0	928.2	1.00	1.57
3	0.3	RW10-1-0.3	131.0	0.14	0.14
4	0.3	RW10-2-0.3	319.0	0.34	0.35
5	0.6	RW10-1-0.6	21.5	0.02	0.02
6	0.6	RW10-2-0.6	16.3	0.02	0.02
7	0.9	RW10-1-0.9	5.0	0.01	0.01
8	0.9	RW10-2-0.9	46.2	0.05	0.05

Number of samples, n	8	Max. TTLC	8.00
Mean (Average), x	245.0	928.2	0.34
Delta = RT - Mean	105.0		
Appropriate no. of Samples	19	> 8 Samples	
Standard Deviation of a Sample, S	326.5		0.53
Standard Deviation of the Mean	115.4		0.19
Variance of a Sample, S ²	106,587.3	> 245 (Mean)	
90% t-value for (n-1) samples	1.415	Need to	1.415
90% Upper Confidence Level	408.3	Transform Data	0.61
Reverse Transformation for 90% needs to be evaluated by layer			529.83 > 350 mg/kg
95% t-value for (n-1) samples			1.895
95% Upper Confidence Level			0.70
Reverse Transformation for 95% needs to be evaluated by layer			596.70 > 350 mg/kg

Data Set: all samples

#	Depth (m)	Sample I.D.	Total Lead (mg/kg)	Normalize by 319	Transformed (Arcsine)
1	0.3	RW10-1-0.3	131.0	0.41	0.42
2	0.3	RW10-2-0.3	319.0	1.00	1.57
3	0.6	RW10-1-0.6	21.5	0.07	0.07
4	0.6	RW10-2-0.6	16.3	0.05	0.05
5	0.9	RW10-1-0.9	5.0	0.02	0.02
6	0.9	RW10-2-0.9	46.2	0.14	0.15
Number of samples, n			6	Max. TTLC	6.00
Mean (Average), x			89.8	319.0	0.38
Delta = RT - Mean			260.2		
Appropriate no. of Samples			0	< 6 Samples	
Standard Deviation of a Sample, S			121.2		0.60
Standard Deviation of the Mean			49.5		0.25
Variance of a Sample, S ²			14,677.5	> 89.8 (Mean)	
90% t-value for (n-1) samples			1.476	Need to	1.476
90% Upper Confidence Level			162.8	Transform Data	0.74
Reverse Transformation for 90% total within variance					215.52 < 350 mg/kg
95% t-value for (n-1) samples					2.015
95% Upper Confidence Level					0.87
Reverse Transformation for 95% total within variance					244.72 < 350 mg/kg
Southbound regression equation: STLC = 0.0256*TTLC + 1.41					
Predicted STLC					6.93
Hazardous					> 5 mg/kg

Data Set: all samples except 0.0 meter interval

#	Depth (m)	Sample I.D.	Total Lead (mg/kg)	Normalize by 45	Transformed (Arcsine)
1	0.0	SW348-1-0.0	30.9	0.69	0.76
2	0.0	SW348-2-0.0	34.5	0.77	0.87
3	0.3	SW348-1-0.3	31.3	0.70	0.77
4	0.3	SW348-2-0.3	35.7	0.79	0.92
5	0.6	SW348-1-0.6	29.7	0.66	0.72
6	0.6	SW348-2-0.6	15.7	0.35	0.36
7	0.9	SW348-1-0.9	29.2	0.65	0.71
8	0.9	SW348-2-0.9	5.0	0.11	0.11
9	1.5	SW348-1-1.5	45.0	1.00	1.57
10	1.5	SW348-2-1.5	12.2	0.27	0.27

Number of samples, n	10	Max. TTLC	10.00
Mean (Average), x	26.9	45.0	0.71
Delta = RT - Mean	323.1		
Appropriate no. of Samples	0	< 10 Samples	
Standard Deviation of a Sample, S	12.2		0.41
Standard Deviation of the Mean	3.8		0.13
Variance of a Sample, S ²	148.0	> 26.9 (Mean)	
90% t-value for (n-1) samples	1.383	Need to	1.383
90% Upper Confidence Level	32.2	Transform Data	0.88
Reverse Transformation for 90% total within variance			34.78 < 350 mg/kg
95% t-value for (n-1) samples			1.833
95% Upper Confidence Level			0.94
Reverse Transformation for 95% total within variance			36.38 < 350 mg/kg
Northbound regression equation: STLC = 0.0254*TTLC + 0.4408			
Predicted STLC			1.32
Non-Hazardous			< 5 mg/kg

Data Set: all samples

#	Depth (m)	Sample I.D.	Total Lead (mg/kg)	Normalize by 386	Transformed (Arcsine)
1	0.0	SW352-1-0.0	38.5	0.10	0.10
2	0.0	SW352-2-0.0	33.2	0.09	0.09
3	0.3	SW352-1-0.3	26.8	0.07	0.07
4	0.3	SW352-2-0.3	16.7	0.04	0.04
5	0.6	SW352-1-0.6	50.4	0.13	0.13
6	0.6	SW352-2-0.6	68.8	0.18	0.18
7	0.9	SW352-1-0.9	32.9	0.09	0.09
8	0.9	SW352-2-0.9	86.9	0.23	0.23
9	1.5	SW352-2-1.5	386.0	1.00	1.57
Number of samples, n			9	Max. TTLC	9.00
Mean (Average), x			82.2	386.0	0.28
Delta = RT - Mean			267.8		
Appropriate no. of Samples			0	< 9 Samples	
Standard Deviation of a Sample, S			116.0		0.49
Standard Deviation of the Mean			38.7		0.16
Variance of a Sample, S^2			13,451.0	> 82.2 (Mean)	
90% t-value for (n-1) samples			1.397	Need to	1.397
90% Upper Confidence Level			136.2	Transform Data	0.50
Reverse Transformation for 90% total within variance					186.54 < 350 mg/kg
95% t-value for (n-1) samples					1.860
95% Upper Confidence Level					0.58
Reverse Transformation for 95% total within variance					211.45 < 350 mg/kg
Northbound regression equation: $STLC = 0.0254 * TTLC + 0.4408$					
Predicted STLC					5.18
Hazardous					> 5 mg/kg

Data Set: all samples

#	Depth (m)	Sample I.D.	Total Lead (mg/kg)	Normalize by 325	Transformed (Arcsine)
1	0.0	SW366-1-0.0	325.0	1.00	1.57
2	0.0	SW366-2-0.0	191.0	0.59	0.63
3	0.3	SW366-1-0.3	109.0	0.34	0.34
4	0.3	SW366-2-0.3	5.0	0.02	0.02
5	0.6	SW366-1-0.6	14.6	0.04	0.04
6	0.6	SW366-2-0.6	5.0	0.02	0.02
7	0.9	SW366-1-0.9	18.1	0.06	0.06
8	0.9	SW366-2-0.9	5.0	0.02	0.02
9	1.5	SW366-1-1.5	5.0	0.02	0.02
10	1.5	SW366-2-1.5	5.0	0.02	0.02

Number of samples, n	10	Max. TTLC	10.00
Mean (Average), x	68.3	325.0	0.27
Delta = RT - Mean	281.7		
Appropriate no. of Samples	0	< 10 Samples	
Standard Deviation of a Sample, S	109.6		0.50
Standard Deviation of the Mean	34.6		0.16
Variance of a Sample, S ²	12,005.0	> 68.3 (Mean)	
90% t-value for (n-1) samples	1.383	Need to	1.383
90% Upper Confidence Level	116.2	Transform Data	0.49
Reverse Transformation for 90% total within variance			153.05 < 350 mg/kg
95% t-value for (n-1) samples			1.833
95% Upper Confidence Level			0.56
Reverse Transformation for 95% total within variance			173.04 < 350 mg/kg
Northbound regression equation: STLC = 0.0254*TTLC + 0.4408			
Predicted STLC			4.33
Non-Hazardous			< 5 mg/kg

Data Set: all samples

#	Depth (m)	Sample I.D.	Total Lead (mg/kg)	Normalize by 606	Transformed (Arcsine)
1	0.0	SW368-1-0.0	430.0	0.71	0.79
2	0.0	SW368-2-0.0	606.0	1.00	1.57
3	0.3	SW368-1-0.3	5.0	0.01	0.01
4	0.3	SW368-2-0.3	22.6	0.04	0.04
5	0.6	SW368-1-0.6	5.0	0.01	0.01
6	0.6	SW368-2-0.6	5.0	0.01	0.01
7	0.9	SW368-1-0.9	5.0	0.01	0.01
8	0.9	SW368-2-0.9	5.0	0.01	0.01
9	1.5	SW368-2-1.5	5.0	0.01	0.01
Number of samples, n			9	Max. TTLC	9.00
Mean (Average), x			121.0	606.0	0.27
Delta = RT - Mean			229.0		
Appropriate no. of Samples			2	< 9 Samples	
Standard Deviation of a Sample, S			229.4		0.55
Standard Deviation of the Mean			76.5		0.18
Variance of a Sample, S ²			52,640.6	> 121 (Mean)	
90% t-value for (n-1) samples			1.397	Need to	1.397
90% Upper Confidence Level			227.8	Transform Data	0.53
Reverse Transformation for 90% total within variance					305.44 < 350 mg/kg
95% t-value for (n-1) samples					1.860
95% Upper Confidence Level					0.61
Reverse Transformation for 95% total within variance					348.75 < 350 mg/kg
Northbound regression equation: STLC = 0.0254*TTLC + 0.4408					
Predicted STLC					8.20
Hazardous					> 5 mg/kg

Data Set: all samples

#	Depth (m)	Sample I.D.	Total Lead (mg/kg)	Normalize by 294	Transformed (Arcsine)
1	0.0	SW370-1-0.0	294.0	1.00	1.57
2	0.0	SW370-2-0.0	264.0	0.90	1.12
3	0.3	SW370-1-0.3	19.4	0.07	0.07
4	0.3	SW370-2-0.3	5.0	0.02	0.02
5	0.6	SW370-1-0.6	5.0	0.02	0.02
6	0.6	SW370-2-0.6	15.0	0.05	0.05
7	0.9	SW370-1-0.9	5.0	0.02	0.02
8	0.9	SW370-2-0.9	14.4	0.05	0.05
9	1.5	SW370-1-1.5	12.4	0.04	0.04
10	1.5	SW370-2-1.5	13.9	0.05	0.05
Number of samples, n			10	Max. TTLC	10.00
Mean (Average), x			64.8	294.0	0.30
Delta = RT - Mean			285.2		
Appropriate no. of Samples			0	< 10 Samples	
Standard Deviation of a Sample, S			113.2		0.56
Standard Deviation of the Mean			35.8		0.18
Variance of a Sample, S ²			12,817.7	> 64.8 (Mean)	
90% t-value for (n-1) samples			1.383	Need to	1.383
90% Upper Confidence Level			114.3	Transform Data	0.54
Reverse Transformation for 90% total within variance					152.28 < 350 mg/kg
95% t-value for (n-1) samples					1.833
95% Upper Confidence Level					0.62
Reverse Transformation for 95% total within variance					171.85 < 350 mg/kg
Northbound regression equation: STLC = 0.0254*TTLC + 0.4408					
Predicted STLC					4.31
Non-Hazardous					< 5 mg/kg

Data Set: all samples

#	Depth (m)	Sample I.D.	Total Lead (mg/kg)	Normalize by 271	Transformed (Arcsine)
1	0.0	SW376-1-0.0	260.0	0.96	1.28
2	0.0	SW376-2-0.0	271.0	1.00	1.57
3	0.3	SW376-1-0.3	18.4	0.07	0.07
4	0.3	SW376-2-0.3	14.3	0.05	0.05
5	0.6	SW376-1-0.6	5.0	0.02	0.02
6	0.6	SW376-2-0.6	10.4	0.04	0.04
7	0.9	SW376-1-0.9	14.5	0.05	0.05
8	0.9	SW376-2-0.9	5.0	0.02	0.02
9	1.5	SW376-1-1.5	5.0	0.02	0.02
10	1.5	SW376-2-1.5	5.0	0.02	0.02

Number of samples, n	10	Max. TTLC	10.00
Mean (Average), x	60.9	271.0	0.31
Delta = RT - Mean	289.1		
Appropriate no. of Samples	0	< 10 Samples	
Standard Deviation of a Sample, S	108.0		0.59
Standard Deviation of the Mean	34.2		0.19
Variance of a Sample, S ²	11,662.6	> 60.9 (Mean)	
90% t-value for (n-1) samples	1.383	Need to	1.383
90% Upper Confidence Level	108.1	Transform Data	0.57
Reverse Transformation for 90% total within variance			146.86 < 350 mg/kg
95% t-value for (n-1) samples			1.833
95% Upper Confidence Level			0.66
Reverse Transformation for 95% total within variance			165.48 < 350 mg/kg
Northbound regression equation: STLC = 0.0254*TTLC + 0.4408			
Predicted STLC			4.17
Non-Hazardous			< 5 mg/kg

Data Set: all samples

#	Depth (m)	Sample I.D.	Total Lead (mg/kg)	Normalize by 3030	Transformed (Arcsine)
1	0.0	SW384-1-0.0	234.0	0.08	0.08
2	0.0	SW384-2-0.0	665.0	0.22	0.22
3	0.0	SW384-3-0.0	2,040.0	0.67	0.74
4	0.0	SW384-4-0.0	3,030.0	1.00	1.57
5	0.0	SW384-5-0.0	682.0	0.23	0.23
6	0.0	SW384-6-0.0	864.0	0.29	0.29
7	0.3	SW384-1-0.3	10.9	0.00	0.00
8	0.3	SW384-2-0.3	42.0	0.01	0.01
9	0.3	SW384-3-0.3	11.4	0.00	0.00
10	0.3	SW384-4-0.3	18.3	0.01	0.01
11	0.3	SW384-5-0.3	19.9	0.01	0.01
12	0.3	SW384-6-0.3	14.7	0.00	0.00
13	0.6	SW384-1-0.6	56.1	0.02	0.02
14	0.6	SW384-2-0.6	14.7	0.00	0.00
15	0.6	SW384-3-0.6	13.8	0.00	0.00
16	0.6	SW384-4-0.6	44.6	0.01	0.01
17	0.6	SW384-5-0.6	11.0	0.00	0.00
18	0.6	SW384-6-0.6	17.0	0.01	0.01
19	0.9	SW384-1-0.9	5.0	0.00	0.00
20	0.9	SW384-2-0.9	5.0	0.00	0.00
21	0.9	SW384-3-0.9	20.5	0.01	0.01
22	0.9	SW384-4-0.9	32.6	0.01	0.01
23	0.9	SW384-5-0.9	29.8	0.01	0.01
24	0.9	SW384-6-0.9	38.1	0.01	0.01
25	1.5	SW384-1-1.5	21.3	0.01	0.01
26	1.5	SW384-2-1.5	189.0	0.06	0.06
27	1.5	SW384-3-1.5	16.4	0.01	0.01
28	1.5	SW384-4-1.5	14.5	0.00	0.00
29	1.5	SW384-5-1.5	76.8	0.03	0.03
30	1.5	SW384-6-1.5	14.0	0.00	0.00

Number of samples, n	30	Max. TTLC	30.00
Mean (Average), x	275.1	3,030.0	0.11
Delta = RT - Mean	74.9		
Appropriate no. of Samples	136	> 30 Samples	
Standard Deviation of a Sample, S	665.3		0.31
Standard Deviation of the Mean	121.5		0.06
Variance of a Sample, S ²	442,640.1	> 275.1 (Mean)	
90% t-value for (n-1) samples	1.311	Need to	1.311
90% Upper Confidence Level	434.4	Transform Data	0.19
Reverse Transformation for 90% needs to be evaluated by layer			563.50 > 350 mg/kg
95% t-value for (n-1) samples			1.699
95% Upper Confidence Level			0.21
Reverse Transformation for 95% needs to be evaluated by layer			629.20 > 350 mg/kg

Data Set: all samples

#	Depth (m)	Sample I.D.	Total Lead (mg/kg)	Normalize by 189	Transformed (Arcsine)
1	0.3	SW384-1-0.3	10.9	0.06	0.06
2	0.3	SW384-2-0.3	42.0	0.22	0.22
3	0.3	SW384-3-0.3	11.4	0.06	0.06
4	0.3	SW384-4-0.3	18.3	0.10	0.10
5	0.3	SW384-5-0.3	19.9	0.11	0.11
6	0.3	SW384-6-0.3	14.7	0.08	0.08
7	0.6	SW384-1-0.6	56.1	0.30	0.30
8	0.6	SW384-2-0.6	14.7	0.08	0.08
9	0.6	SW384-3-0.6	13.8	0.07	0.07
10	0.6	SW384-4-0.6	44.6	0.24	0.24
11	0.6	SW384-5-0.6	11.0	0.06	0.06
12	0.6	SW384-6-0.6	17.0	0.09	0.09
13	0.9	SW384-1-0.9	5.0	0.03	0.03
14	0.9	SW384-2-0.9	5.0	0.03	0.03
15	0.9	SW384-3-0.9	20.5	0.11	0.11
16	0.9	SW384-4-0.9	32.6	0.17	0.17
17	0.9	SW384-5-0.9	29.8	0.16	0.16
18	0.9	SW384-6-0.9	38.1	0.20	0.20
19	1.5	SW384-1-1.5	21.3	0.11	0.11
20	1.5	SW384-2-1.5	189.0	1.00	1.57
21	1.5	SW384-3-1.5	16.4	0.09	0.09
22	1.5	SW384-4-1.5	14.5	0.08	0.08
23	1.5	SW384-5-1.5	76.8	0.41	0.42
24	1.5	SW384-6-1.5	14.0	0.07	0.07
Number of samples, n			24	Max. TTLC	24.00
Mean (Average), x			30.7	189.0	0.19
Delta = RT - Mean			319.3		
Appropriate no. of Samples			0	< 24 Samples	
Standard Deviation of a Sample, S			37.8		0.31
Standard Deviation of the Mean			7.7		0.06
Variance of a Sample, S^2			1,429.4	> 30.7 (Mean)	
90% t-value for (n-1) samples			1.319	Need to	1.319
90% Upper Confidence Level			40.9	Transform Data	0.27
Reverse Transformation for 90% total within variance					50.52 < 350 mg/kg
95% t-value for (n-1) samples					1.714
95% Upper Confidence Level					0.30
Reverse Transformation for 95% total within variance					55.04 < 350 mg/kg
Northbound regression equation: STLC = 0.0254*TTLC + 0.4408					
Predicted STLC					1.72
Non-Hazardous					< 5 mg/kg

Data Set: all samples except 0.0 meter interval

#	Depth (m)	Sample I.D.	Total Lead (mg/kg)	Normalize by 144	Transformed (Arcsine)
1	0.0	SW381-1-0.0	144.0	1.00	1.57
2	0.0	SW381-2-0.0	39.3	0.27	0.28
3	0.3	SW381-1-0.3	50.4	0.35	0.36
4	0.3	SW381-2-0.3	11.6	0.08	0.08
5	0.6	SW381-2-0.6	10.3	0.07	0.07
6	0.9	SW381-2-0.9	10.7	0.07	0.07
7	1.5	SW381-2-1.5	5.0	0.03	0.03
Number of samples, n			7	Max. TTLC	7.00
Mean (Average), x			38.8	144.0	0.35
Delta = RT - Mean			311.2		
Appropriate no. of Samples			0	< 7 Samples	
Standard Deviation of a Sample, S			49.5		0.55
Standard Deviation of the Mean			18.7		0.21
Variance of a Sample, S ²			2,447.7	> 38.8 (Mean)	
90% t-value for (n-1) samples			1.440	Need to	1.440
90% Upper Confidence Level			65.7	Transform Data	0.65
Reverse Transformation for 90% total within variance					87.39 < 350 mg/kg
95% t-value for (n-1) samples					1.943
95% Upper Confidence Level					0.76
Reverse Transformation for 95% total within variance					98.89 < 350 mg/kg
Southbound regression equation: STLC = 0.0256*TTLC + 1.41					
Predicted STLC					3.65
Non-Hazardous					< 5 mg/kg

Data Set: all samples

#	Depth (m)	Sample I.D.	Total Lead (mg/kg)	Normalize by 180	Transformed (Arcsine)
1	0.0	SW387-1-0.0	180.0	1.00	1.57
2	0.0	SW387-2-0.0	103.0	0.57	0.61
3	0.3	SW387-1-0.3	16.0	0.09	0.09
4	0.3	SW387-2-0.3	5.0	0.03	0.03
5	0.6	SW387-1-0.6	11.0	0.06	0.06
6	0.6	SW387-2-0.6	5.0	0.03	0.03
7	0.9	SW387-1-0.9	5.0	0.03	0.03
8	0.9	SW387-2-0.9	22.1	0.12	0.12
9	1.5	SW387-1-1.5	5.0	0.03	0.03
10	1.5	SW387-2-1.5	17.1	0.10	0.10
Number of samples, n			10	Max. TTLC	10.00
Mean (Average), x			36.9	180.0	0.27
Delta = RT - Mean			313.1		
Appropriate no. of Samples			0	< 10 Samples	
Standard Deviation of a Sample, S			58.3		0.49
Standard Deviation of the Mean			18.4		0.16
Variance of a Sample, S ²			3,404.0	> 36.9 (Mean)	
90% t-value for (n-1) samples			1.383	Need to	1.383
90% Upper Confidence Level			62.4	Transform Data	0.48
Reverse Transformation for 90% total within variance					83.23 < 350 mg/kg
95% t-value for (n-1) samples					1.833
95% Upper Confidence Level					0.55
Reverse Transformation for 95% total within variance					94.18 < 350 mg/kg
Southbound regression equation: STLC = 0.0256*TTLC + 1.41					
Predicted STLC					3.54
Non-Hazardous					< 5 mg/kg

Data Set: all samples

#	Depth (m)	Sample I.D.	Total Lead (mg/kg)	Normalize by 63.5	Transformed (Arcsine)
1	0.0	SW397-1-0.0	63.5	1.00	1.57
2	0.0	SW397-2-0.0	42.4	0.67	0.73
3	0.3	SW397-1-0.3	38.9	0.61	0.66
4	0.3	SW397-2-0.3	5.0	0.08	0.08
5	0.6	SW397-1-0.6	18.6	0.29	0.30
6	0.6	SW397-2-0.6	16.3	0.26	0.26
7	0.9	SW397-1-0.9	12.3	0.19	0.19
8	0.9	SW397-2-0.9	5.0	0.08	0.08
9	1.5	SW397-1-1.5	13.3	0.21	0.21
10	1.5	SW397-2-1.5	11.9	0.19	0.19
Number of samples, n			10	Max. TTLC	10.00
Mean (Average), x			22.7	63.5	0.43
Delta = RT - Mean			327.3		
Appropriate no. of Samples			0	< 10 Samples	
Standard Deviation of a Sample, S			19.2		0.46
Standard Deviation of the Mean			6.1		0.15
Variance of a Sample, S ²			368.1	> 22.7 (Mean)	
90% t-value for (n-1) samples			1.383	Need to	1.383
90% Upper Confidence Level			31.1	Transform Data	0.63
Reverse Transformation for 90% total within variance					37.31 < 350 mg/kg
95% t-value for (n-1) samples					1.833
95% Upper Confidence Level					0.69
Reverse Transformation for 95% total within variance					40.58 < 350 mg/kg
Southbound regression equation: STLC = 0.0256*TTLC + 1.41					
Predicted STLC					2.37
Non-Hazardous					< 5 mg/kg

Data Set: all samples

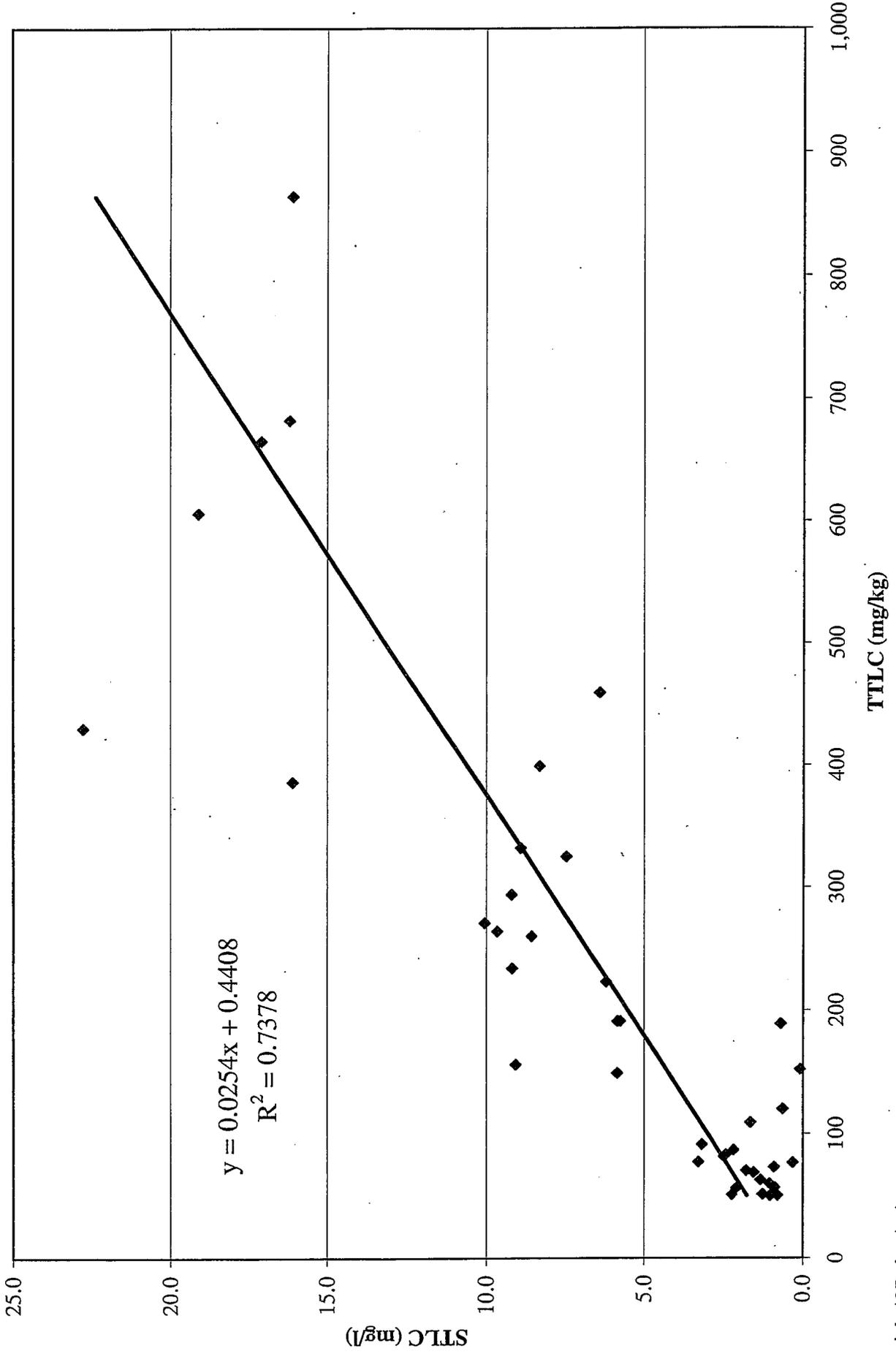
#	Depth (m)	Sample I.D.	Total Lead (mg/kg)	Normalize by 53	Transformed (Arcsine)
1	0.0	RW397-1-0.0	53.0	1.00	1.57
2	0.0	RW397-2-0.0	34.0	0.64	0.70
3	0.3	RW397-1-0.3	5.0	0.09	0.09
4	0.3	RW397-2-0.3	44.6	0.84	1.00
5	0.6	RW397-1-0.6	10.3	0.19	0.20
6	0.6	RW397-2-0.6	15.6	0.29	0.30
7	0.9	RW397-1-0.9	5.0	0.09	0.09
8	0.9	RW397-2-0.9	12.6	0.24	0.24
9	1.5	RW397-1-1.5	12.9	0.24	0.25
10	1.5	RW397-2-1.5	5.0	0.09	0.09

Number of samples, n	10	Max. TTLC	10.00
Mean (Average), x	19.8	53.0	0.45
Delta = RT - Mean	330.2		
Appropriate no. of Samples	0	< 10 Samples	
Standard Deviation of a Sample, S	17.6		0.49
Standard Deviation of the Mean	5.6		0.16
Variance of a Sample, S ²	309.3	> 19.8 (Mean)	
90% t-value for (n-1) samples	1.383	Need to	1.383
90% Upper Confidence Level	27.5	Transform Data	0.67
Reverse Transformation for 90% total within variance			32.83 < 350 mg/kg
95% t-value for (n-1) samples			1.833
95% Upper Confidence Level			0.74
Reverse Transformation for 95% total within variance			35.66 < 350 mg/kg
Southbound regression equation: STLC = 0.0256*TTLC + 1.41			
Predicted STLC			2.25
Non-Hazardous			< 5 mg/kg

Data Set: all samples

#	Depth (m)	Sample I.D.	TTLIC (mg/kg)	STLC (mg/l)	
1	0.3	RW2-1-0.3	81.8	2.46	
2	0.3	RW2-1-DUP	77.5	3.28	
3	0.3	RW2-2-0.3	152	0.1	
4	0.0	RW3-1-0.0	56.9	0.88	
5	0.6	RW3-1-0.6	51.3	1.24	
6	0.9	RW3-1-0.9	59.9	1.03	
7	0.6	RW3-1-DUP	62.9	1.31	
8	0.0	RW3-2-0.0	223	6.2	
9	0.6	RW3-2-0.6	156	9.08	
10	0.0	RW4-1-0.0	149	5.86	
11	0.3	RW4-1-0.3	83.2	2.40	
12	0.0	RW4-2-0.0	332	8.91	
13	0.3	RW4-2-0.3	70.4	1.74	
14	0.6	RW4-2-0.6	51.0	2.20	
15	0.9	RW4-2-0.9	191	5.85	
17	0.3	RW5-1-0.3	399	8.30	
18	0.6	RW5-1-0.6	73.3	0.89	
19	0.9	RW5-1-0.9	91.5	3.17	
20	0.3	RW5-2-0.3	459	6.40	
21	0.6	RW5-2-0.6	50.3	1.02	
22	0.6	SW348-1-DUP	120	0.63	
23	0.6	SW352-1-0.6	50.4	0.79	
24	0.6	SW352-2-0.6	68.8	1.52	
25	0.9	SW352-2-0.9	86.9	2.15	
26	1.5	SW352-2-1.5	386	16.1	
27	0.0	SW366-1-0.0	325	7.45	
28	0.3	SW366-1-0.3	109	1.61	
29	0.0	SW366-2-0.0	191	5.76	
30	0.0	SW368-1-0.0	430	22.8	
31	0.0	SW368-2-0.0	606	19.1	
32	0.0	SW370-1-0.0	294	9.20	
33	0.0	SW370-2-0.0	264	9.66	
34	0.0	SW376-1-0.0	260	8.57	
35	0.0	SW376-2-0.0	271	10.05	
36	0.0	SW384-1-0.0	234	9.19	
37	0.6	SW384-1-0.6	56.1	2.07	
38	0.0	SW384-2-0.0	665	17.1	
39	1.5	SW384-2-1.5	189	0.69	
40	0.0	SW384-5-0.0	682	16.2	
41	1.5	SW384-5-1.5	76.8	0.32	
42	0.0	SW384-6-0.0	864	16.1	
Regression between TTLIC & STLC					
STLC = 0.0254*TTLIC + 0.4408					
R2 = 0.7378, R = 0.858 > 0.8					
	Correlation =	0.86			
TTLIC 90% UCL =		330.6	mg/kg < 350 mg/kg		
STLC =		8.8	mg/l > 5.0 mg/l		
TTLIC 95% UCL =		355.8	mg/kg < 350 mg/kg		
STLC =		9.5	mg/l > 5.0 mg/l		

Regression Between TTLC & STLC Northbound



#	Depth (m)	Sample I.D.	TTLIC (mg/kg)	STLC (mg/l)
1	0.0	RW6-1-0.0	104	3.83
2	0.0	RW6-2-0.0	65.7	1.13
3	0.3	RW7-2-0.3	89.8	3.49
4	0.0	RW8-1-0.0	930	18.2
5	0.3	RW8-1-0.3	51.6	1.23
6	0.6	RW8-2-0.6	173	4.75
7	0.9	RW8-2-0.9	80.4	1.22
8	0.0	RW10-1-0.0	493	15.7
9	0.3	RW10-1-0.3	131	5.23
10	0.0	RW10-2-0.0	928	28.8
11	0.3	RW10-2-0.3	319	17
12	0.0	SW381-1-0.0	144	4.53
13	0.3	SW381-1-0.3	50.4	0.96
14	0.0	SW387-1-0.0	180	8.57
15	0.0	SW387-2-0.0	103	6.54
16	0.0	SW397-1-0.0	63.5	1.83
17	0.0	RW397-1-0.0	53.0	2.17
Regression between TTLIC & STLC				
$STLC = 0.0256 * TTLIC + 1.41$				
$R^2 = 0.8493, R = 0.922 > 0.8$				
	Correlation =	0.92		
TTLIC 90% UCL =		302.5	mg/kg < 350 mg/kg	
STLC =		9.2	mg/l > 5.0 mg/l	
TTLIC 95% UCL =		330.7	mg/kg < 350 mg/kg	
STLC =		9.9	mg/l > 5.0 mg/l	

Regression Between TTLC & STLC Southbound

