FOR CONTRACT No.: 07-2X9504
PROJECT ID: 0700020920

INFORMATION HANDOUT

ADL INVESTIGATION REPORT

REDONDO AVENUE AND 29TH STREET
LONG BEACH, CALIFORNIA
TASK ORDER NO. 07-3N5101-PN
EA4N4601

Prepared for:
CALIFORNIA DEPARTMENT OF TRANSPORTATION
DISTRICT 7
LOS ANGELES, CALIFORNIA

Prepared by
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June 19, 2002

PHASE II ENVIRONMENTAL INVESTIGATION REPORT

CHERRY AVENUE AT INTERSTATE 405
NORTHBOUND COLLECTOR RAMP
LONG BEACH, CALIFORNIA
CALTRANS PERMIT NUMBER 708-6SV-1314
PROJECT No. 2008-026

Prepared for:
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November 26, 2008

FOR CONTRACT No.: 07-2X9504
PROJECT ID: 0700020920

SLOPE AND GEOTECHNICAL REVIEW

07-LA-405 PM 0.5/10.5
IN LONG BEACH, SIGNAL HILL AND CARSON
FROM SIGNAL HILL AND CARSON
FROM STUDEBAKER ROAD UNDERCROSSING TO CARSON STREET

Prepared for:
Mr. Hamid Saadatnejadi, Senior T.E.
D7 Office of Maintenance Engineering

Prepared by:
Department of Transportation, Division of Engineering Services
Geotechnical Serivces, Office of Geotechnical Design - South 1 Branch D

ADDITIONAL SOIL SAMPLING RESULTS

PERMIT No. 701-6MC-2681 AND 07-LA-405-5.462
ADDITIONAL SOIL SAMPLING RESULTS
PROPOSED HOME DEPOT SITE
SOUTHBOUND I-405 FREEWAY OFF-RAMP AND ATLANTIC AVENUE
LONG BEACH, CALIFORNIA

Submitted to:
State of California Department of Transportation
18730 Wilmington Boulevard, Suite 103
Rancho Dominguez, California

Prepared for:
Home Depot USA, Inc.
Orange, California

Prepared by:

ENVIRON Internation Corporation
Irvine, California

March 20, 2002
Revised: February 20, 2004
Revised: November 18, 2004
Revised: January 13, 2005
Revised: February 15, 2005

ROUTE: 07-LA-170-17.7/20.3
PROJECT ID: 0700020920

ID # 559

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ADL INVESTIGATION REPORT

REDONDO AVENUE AND 29TH STREET LONG BEACH, CALIFORNIA CONTRACT NO. 43A0078 TASK ORDER NO. 07-3N5101-PN EA 4N4601

PREPARED FOR

CALIFORNIA DEPARTMENT
OF TRANSPORTATION
DISTRICT 7
LOS ANGELES, CALIFORNIA

PREPARED BY

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June 19, 2002

GEOCON
CONSULTANTS, INC.
ENVIRONMENTAL ■ GEOTECHNICAL ■ MATERIALS

Project No. 09100-06-41
Task Order No. 07-3N5101-PN
EA 4N4601
June 19, 2002

HAND-DELIVERED

Mr. Jacinto Villanueva
California Department of Transportation
District 7, Office of Environmental Planning
120 South Spring Street
Los Angeles, California 90012

Subject: ADL INVESTIGATION REPORT
REDONDO AVENUE AND 29TH STREET
LONG BEACH, CALIFORNIA
CONTRACT NO. 43A0078
TASK ORDER NO. 07-3N5101-PN
EA 4N4601

Dear Mr. Villanueva:

In accordance with Caltrans Contract No. 43A0078 and Task Order No. 07-3N5101-PN dated March 20, 2002, Geocon Consultants, Inc. has performed an aerially deposited lead (ADL) investigation at the site consisting of the exposed soil up to 2.4 meters from the edge of the traveled way along the northwest corner of Redondo Avenue and 29th Street in Long Beach, California. The accompanying report summarizes the services performed, including the advancement of hand-auger borings, limited soil sampling, laboratory analyses, statistical analyses, and Geographical Information System (GIS) Surveying. Please call us if you have any questions.

Sincerely,

GEOCON CONSULTANTS, INC.

Mike Conkle
Project Geologist

Ronald J. Kofron, CEG 1527
Senior Geologist

MC:RJK:sc

(5) Addressee

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ADL INVESTIGATION REPORT

I. EXECUTIVE SUMMARY

Geocon Consultants, Inc. (Geocon) has performed aerially deposited lead (ADL) investigation at the site consisting of the exposed soil up to 2.4 meters (m) from the edge of the traveled way along the northwest corner of Redondo Avenue and 29th Street in Long Beach, California. The California Department of Transportation (Caltrans) proposes to excavate soil at the site for curb ramps and sidewalk access to comply with the American with Disability Act.

The investigation was performed to evaluate the presence of lead resulting from the historical combustion of leaded fuels from freeway traffic. Data from the investigation was used to evaluate the potential reuse or disposal considerations for soil excavated at the site, and to inform Caltrans of potential health and safety issues concerning the presence of lead in soil for workers at the site during construction activities.

Soil samples collected from the site were subsequently analyzed for total lead, soil pH, soluble lead using the Waste Extraction Test (WET) method using citric acid as the extractant, and soluble lead using a modified WET method using deionized water (WET-DI) as the extractant. In addition, selected soil samples were analyzed for soluble lead using the Toxicity Characteristic Leaching Procedure (TCLP) method, California Code of Regulations (CCR) Title 22 metals, and soil pH.

Laboratory analytical results and statistical analysis using 90% upper one-sided confidence limits (UCLs) were compared to the guidelines of the Department of Toxic Substances Control (DTSC) Lead Variance issued to Caltrans and Assembly Bill 414 to develop recommendations for reuse of soil from the site. Offsite disposal conclusions were based upon comparison of 95% UCLs and predicted WET-Citric results to CCR Title 22 and California Health and Safety Code (HSC) criteria. These conclusions are presented below:

Based upon the 90% arcsine transformed UCLs and average WET-DI results, the upper 0.6 m of soil is suitable for re-use within the Caltrans rights-of-way. The soil should be placed under at least 0.3m of non-hazardous fill or pavement and at least 1.5 m above maximum groundwater in accordance with the DTSC variance.

Based upon the 95% arcsine transformed UCLs and predicted WET-Citric results, if the upper 0.15 m of soil excavated from the site is to be disposed, it should be handled as a hazardous material with respect to soluble lead content. The underlying soil from 0.15 m to 0.60 m should be handled as a non-hazardous material with respect to lead content. If the entire soil column to a depth of 0.60 m is to be disposed as a single unit, it should be handled as a non-hazardous material with respect to total and soluble lead.

Other CCR Title 22 metals do not appear to be a concern; however, additional sampling and statistical analyses would be necessary to fully characterize this soil. Caltrans should notify the contractors performing the construction activities that hazardous concentrations of lead may be present in onsite soil and that appropriate health and safety measures should be taken to minimize the exposure to lead.

AERIALLY DEPOSITED LEAD INVESTIGATION REPORT

1. INTRODUCTION

1.1 Project Description and Objectives

Geocon has conducted an ADL investigation at the site consisting of the exposed soil up to 2.4 meters (m) from the edge of the traveled way along the northwest corner of Redondo Avenue and 29th Street in Long Beach, California (Figure 1).

The objective of the ADL investigation was to evaluate soil at the site for the presence of lead resulting from the historical combustion of leaded fuels from freeway traffic. The information obtained from the limited soil sampling and laboratory testing was used to evaluate the method of reuse or disposal of soil excavated during the proposed construction activities at the site. The data was also used to inform Caltrans of potential health and safety issues for workers at the site during construction activities.

1.2 Scope of Work

Geocon performed the following tasks:

1.2.1 Pre-field Activities

- Attended a Task Order meeting on April 24, 2002 to discuss issues such as field methods, boring locations, health and safety measures, and the completion schedule.
- Prepared a Health and Safety Plan (HSP) dated April 23, 2002, for the proposed activities. The Health and Safety Plan included guidelines for the use of personal protective equipment for Geocon employees during the field activities. The HSP specifies the safety procedures for work to be performed at the site, chemical hazard information, site safety officers, and medical emergency locations. The HSP was prepared as required by Contract 43A0078 in general accordance with 29 CFR 1910.120 and CCR Title 8.
- Contacted Underground Service Alert (USA) to notify utility companies of the field activities.

1.2.2 Limited Soil Sampling

A 7.62-centimeter-diameter hand auger was used to collect 38 soil samples from 13 boring locations from the northwest corner of Redondo Avenue and 29th Street on April 26, 2002. Sample B8-0.6 was not collected due to cobbles within the borehole. Boring locations were provided by Caltrans as specified on Page 4 of Task Order No. 07-3N5101-PN, dated March 20, 2002, for the evaluation of the

subsurface condition at the site. The borings were advanced to a maximum depth of 0.6 m below the ground surface, and soil samples were collected at 0.15 m, 0.3 m, and 0.6 m. The approximate boring locations are shown on the Boring Location Map, Figure 2. The borings were subsequently backfilled with the soil cuttings generated.

1.2.3 Laboratory Analyses

Geocon submitted the soil and water samples under chain of custody procedures to Advanced Technology Laboratories (ATL) a California Department of Health Services (CDOHS)-certified analytical laboratory. All soil samples were analyzed for total lead following United States Environmental Protection Agency (EPA) Test Method 6010B. Soil samples exhibiting total lead concentrations greater than or equal to 50 milligrams per kilograms (mg/kg) and less than 1,000 mg/kg were analyzed for soluble lead following EPA Test Method 7420 using the WET-Citric method. One sample exhibiting WET-Citric concentrations greater than 5 milligrams per liter (mg/l) was analyzed for soluble lead following EPA Test Method 7420 using the WET-DI method. The four samples with the highest total lead concentrations were analyzed using the TCLP method. The two samples containing the highest total lead concentration were also analyzed for the CCR Title 22 metals by EPA Methods 6010B and 7471A. In addition, four of the soil samples were analyzed for pH following EPA Test Method 9045.

Equipment blank samples were analyzed for total lead using EPA Test Method 6010B.

Decontamination water was analyzed for the CCR Title 22 metals by EPA Methods 6010B and 7471A.

1.2.4 GIS Surveying

Each boring location was recorded using a Global Positioning System (GPS) receiver. Data was recorded using the Axis III™ receiver system, using State Plane 83 coordinates, with the IMAP™ software package. Boring location coordinates, in latitude and longitude, are provided in Appendix A.

1.2.5 Report Preparation

This report was prepared as outlined in Contract No. 43A0078 and in Task Order No. 07-3N5101-PN, summarizing the results of the aerially deposited lead investigation activities requested by Caltrans.

1.3 Previous Site Investigations

Geocon has not performed a previous investigation at the site. In addition, Caltrans has not notified Geocon of previous investigations performed at the site.

2. BACKGROUND

2.1 Aerially Deposited Lead in Soil

Testing by Caltrans throughout the State has shown that aerially deposited lead exists in soil along major freeway routes resulting from automobile exhaust containing lead from the combustion of leaded gasoline. Elevated lead concentrations are generally found within 9.1 m of the edge of pavement and within the top 0.15 m of soil. Elevated lead concentrations can also be present as deep as 0.6 to 0.9 m below the surface. The concentration and distribution of aerially deposited lead in soil is dependent on many variables, but in general, traffic volume and age of a highway are the primary factors.

2.2 Hazardous Waste Classification Criteria

Regulatory criteria to classify a waste as "California hazardous" for handling and disposal purposes are contained in the CCR, Title 22, Division 4.5, Chapter 11, Article 3, §66261.24. Criteria to classify a waste as "Resource, Conservation, and Recovery Act (RCRA) hazardous" are contained in Chapter 40 of the *Code of Federal Regulations* (40 CFR), §261.

For a waste containing metals, the waste is classified as "California hazardous" when: (1) the total metal content exceeds the Total Threshold Limit Concentration (TTLC); or (2) the soluble metal content exceeds the Soluble Threshold Limit Concentration (STLC) based on a Waste Extraction Test (WET) analysis. A material is classified as "RCRA hazardous" when the soluble metal content exceeds the Federal Regulatory Level based on Toxicity Characteristic Leaching Procedure (TCLP) testing.

The above regulatory criteria are based on toxicity. Wastes may also be classified as hazardous based on other criteria including ignitability, toxicity, corrosivity, and reactivity. However, for the purposes of ADL investigations, toxicity and corrosivity (i.e., chemical concentrations and soil pH values, respectively) are the primary factors considered for waste classification. Waste that is classified as either "California hazardous" or "RCRA hazardous" requires management as a hazardous waste and disposal at an approved disposal facility.

According to §25157.8 of the HSC, after January 1, 1999, no person shall dispose of waste that contains total lead in excess of 350 mg/kg to land other than a Class I hazardous waste disposal facility.

2.3 DTSC Variance

The DTSC issued a variance to selected Caltrans Districts on September 22, 2000, to provide guidance for the disposition of soil containing ADL within Caltrans projects. The California State Assembly passed Assembly Bill (AB) 414 dated October 14, 2001 which allows Caltrans to reuse lead impacted soil with their rights-of-way provided that total lead concentrations do no exceed 1,496 mg/kg. Review of the variance and AB 414 indicates the following conditions regarding Caltrans' reuse and management of ADL impacted soil as fill material for construction and maintenance operations.

2.3.1 Condition 1

Soil exhibiting soluble lead concentrations less than or equal to 0.5 mg/l (WET-DI) and total lead concentrations of 1,496 mg/kg or less may be used as fill provided that the soil containing ADL is placed a minimum of 1.5 m above the maximum water table elevation and covered with at least 0.3 m of clean soil.

2.3.2 Condition 2

Soil exhibiting soluble lead concentrations greater than 0.5 mg/l (WET-DI) and total lead concentrations of 1,496 mg/kg or less may be used as fill provided that the soil containing ADL is placed a minimum of 1.5 m above the maximum water table elevation and protected from infiltration by a pavement structure maintained by Caltrans.

2.3.3 Condition 3

Contaminated soil with a pH less than 5.0 may be used as fill material only under the paved portion of the roadway. Condition 3 prevails under either Condition 1 or 2.

2.4 Criteria For Disposal Of Soil Not Intended For Reuse Onsite

If the excavated soil is not intended to be reused within the Caltrans right-of-way, then hazardous waste determination of the soil is based on total and soluble lead concentrations using the lead TTLC and STLC contained in Title 22 of the *CCR* Article 3, §66261.24. When the total lead concentration is greater than ten times the lead STLC, regulatory agencies typically initiate the requirement for WET

using citric acid. It is the result from the WET that is compared to the STLC value. The TTLC value for lead is 1,000 mg/kg and the STLC for lead using acid extract is 5.0 mg/l. However, as previously indicated, disposal of waste that contains total lead in excess of 350 mg/kg to land other than a Class I hazardous waste disposal facility (or other designated facility meeting all the criteria in HSC 25157.8(3)(b)) is prohibited.

3. INVESTIGATIVE METHODS

3.1 Field Methods

3.1.1 Soil Sampling

Soil sampling and handling methods used by Geocon to complete this Task Order are outlined in the following modified Geocon Standard Operating Procedures (SOPs) presented as Appendix B:

- Modified SOP No. 11 - Hand-Augering and Soil Sample Collection/Handling Procedures

3.1.2 Equipment Blank Sampling

One equipment blank sample was collected after every per chain-of-custody (every ten soil samples) to verify proper cleaning of the sampling equipment. The equipment blank samples were obtained by passing distilled water over the decontaminated sampling equipment and into laboratory-provided containers. The equipment blank results for this project, labeled C-5 through C-8 are provided in Appendix C. The laboratory report containing the equipment blank results also contains results for equipment blanks labeled C-1 through C-4 which were collected as part of another project. These equipment blanks are discussed in a separate report.

3.1.3 Decontamination Water Sample Analysis

All liquids resulting from cleaning of sampling equipment were placed in a sealed 55 gallon drum and stored at a Caltrans maintenance station. One water sample (labeled "DRUM") was collected at the conclusion of the field activities and was analyzed for CCR Title 22 metals. Based on these results, the drum of decontamination water was determined to be non-hazardous and emptied on site. Care was taken to prevent the liquids from entering storm drains.

3.2 Deviations from Work Plan

A work plan was not prepared for this Task Order; however, Geocon performed the scope of work as described in the Task Order.

4. INVESTIGATIVE RESULTS AND FIELD OBSERVATIONS

4.1 Site Geology and Hydrology

The soil conditions encountered consisted generally of dry, light brown to brown, silt and sand. Groundwater was not encountered in the hand auger borings.

4.2 Analytical Laboratory Results

A summary of the results of the laboratory analyses for total lead, WET-Citric, WET-DI, TCLP, and pH is presented in Table I. A summary of the results of the laboratory analyses for CCR Title 22 metals is presented in Table II. Reproductions of the laboratory reports and chain-of-custody documentation are presented as Appendix C. Samples were processed using laboratory 5 business day turn around times.

Soil sample analytical results are summarized as follows (see Section 1.2.3 for analytical methods used):

- **Total Lead** - Thirty eight soil samples were analyzed for total lead. Concentrations ranged from below the laboratory reporting limit of 5 mg/kg to 240 mg/kg. The maximum total lead concentration for this data set does not exceed either the 350 mg/kg threshold value specified in HSC or the 1,496 mg/kg, the threshold value specified in the DTSC variance for total lead. The average of the total data set is 53.6 mg/kg;

- **WET-Citric** - Fourteen soil samples exhibited total lead concentrations greater than 50 mg/kg and less than 1,000 mg/kg, and were analyzed using the WET-Citric method. WET-Citric concentrations ranged from 2 mg/l to 21 mg/l. CCR Title 22 specifies 5.0 mg/l as the STLC for lead;

- **WET-DI** - Seven soil samples exhibited total lead concentrations less than 350 mg/kg and WET-Citric concentrations greater than the STLC of 5.0 mg/l, and were analyzed using the WET-DI method. The WET-DI concentrations were all below the laboratory reporting limit of 0.2 mg/l. The DTSC variance specifies conditions for re-use of soil based on a threshold of 0.5 mg/l as described in Section 2.3;

- **pH** - Four soil samples were tested for pH. Values ranged from 8.15 to 8.69, which are above the minimum of 5.0 described in the DTSC variance;

- **TCLP** –Four soil samples were analyzed by the TCLP method. There concentrations ranged from 0.27 mg/l to 0.30 mg/l. None of the results were above 5.0 mg/l, the TCLP for RCRA waste for lead;

- **CCR Title 22 Metals** - Two soil samples were analyzed for CCR Title 22 metals. Metals included in this analysis are antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and

zinc. None of the metals concentrations were detected at or above the respective TTLC. Lead was the only analyte detected above ten times the respective STLCs;

- **Equipment Blanks** - Four equipment blank water samples were analyzed for total lead. All samples were not reported at the laboratory detection limit of 0.005 mg/l; and

- **Decontamination Water** - The decontamination water was analyzed for the metals antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc. Copper and selenium, at concentrations of 0.0046 mg/l and 0.0091 mg/l, respectively, were the only metals detected. These results are below the STLC of 25 mg/l for copper and 1 mg/l for selenium.

4.3 Data Validation

Geocon and ATL use QA/QC measures to minimize and control errors associated with field and laboratory methods. Field QA/QC measures consist of cleaning sampling equipment between each use with a detergent solution followed by successive rinses in tap and deionized water. To demonstrate that cleaning of the equipment was adequate, equipment blanks are collected by passing deionized water through the hand auger and collecting it in a laboratory provided container. One equipment blank was collected for each chain of custody used. Laboratory results indicated that all equipment blanks were non-detect at the laboratory reporting limit of 0.005 mg/l. Based on these results, Geocon considers the field investigation free from potential influence from cross-contamination from inadequate equipment decontamination.

Laboratory QA/QC measures include the use of matrix spikes, duplicates, and method blanks, and calculation pf percent recovery and relative percentage difference (RPD). A review of the laboratory QA/QC results indicate satisfactory data reporting.

5. DATA EVALUATION

5.1 Lead Distribution Analysis

The results of the analytical testing indicates that all of the samples collected for this investigation exhibited total lead concentrations below the HSC limit of 350 mg/kg. However, soluble lead concentrations meet or exceeded the STLC threshold in 7 of the 14 of the samples analyzed. Soluble lead concentrations exceeded the STLC threshold limit at the 0.15 and 0.3 m depth intervals. None of the samples exceeded the TCLP threshold of 5 mg/l.

5.2 Statistical Evaluation Methods

The analytical laboratory results were evaluated statistically to examine the appropriate method of reuse or offsite disposal of the soils. Prior to performing the following calculations, analytical results reported as below the detection limit were assigned a value of one-half the detection limit. Statistical methods were applied to the lead data set collected adjacent to the site to evaluate: 1) if an acceptable correlation between total and soluble lead concentrations exists that would allow the prediction of soluble lead concentrations based on calculated UCLs; 2) the total lead data population distribution, and 3) the upper one-sided confidence limits (UCLs) on the true means of the total lead concentrations for different soil mixing scenarios.

5.3 Data Correlation

A test for data correlation is used to verify the quality of the equation used to predict soluble lead concentrations. There should be a correlation coefficient ("r") of 0.8 or greater between total and soluble lead (WET-citric) analytical results. The correlation coefficient of total lead versus soluble lead concentrations for this data set is 0.8876. The correlation factor is discussed in Section 6.1 of the report.

5.4 Regression Analysis

A linear regression analysis is necessary to create a soluble lead prediction model for use with the 90% and 95% UCLs. The model is created by plotting the total lead and soluble lead (WET-Citric) paired data points on a scatter plot chart. A linear regression line is then added to the chart using the equation:

$y = mx + b$

where:

y = *WET Citric result, mg/l*

x = *total lead result, mg/kg*

b = *the y-intercept where the total lead concentration is zero. Theoretically, the y-intercept should also be zero. The larger the y-intercept (either positive or negative) is an indication of the uncertainty of the regression analysis.*

$$m = Slope = \frac{r \times s_t}{s_s}$$

where:

r = *correlation coefficient*

s_t = *standard deviation of the total lead results*

s_s = *standard deviation of the soluble lead results*

The linear equation corresponding to the regression line is then used to predict a soluble lead concentration for the statistical total lead UCLs. The integrity of the equation is directly related to the correlation coefficient described in Section 5.3.

5.5 Population Distribution

A test for population distribution is necessary to apply the appropriate methods when examining the UCLs on the true total lead means. When evaluating the distribution of total lead concentrations, all total lead data from each area were treated as one data set. In accordance with *Chapter Nine, SW-846, 3rd Edition, U.S. Environmental Protection Agency, 1986*, (*Chapter Nine, SW-846)* distribution was evaluated by comparing the mean versus the variance of the total lead data sets. If the mean was greater than the variance, the data set was assumed to be normally distributed and transformation was not performed. If the mean was less than the variance, the data set was transformed using an arcsine conversion. If the mean was approximately equal to the variance, the data set was transformed using a square root conversion.

5.6 Calculating the Upper Confidence Limits for the True Mean

Statistical confidence limits are the classical tool for addressing uncertainties of a distribution mean. The UCLs of the true mean concentration are used as the mean concentrations because it is not possible to know the true mean. The UCLs therefore account for uncertainties due to limited sampling data. As more data are available for a given site, uncertainty decreases and the UCLs move closer to the true mean.

A 90% UCL is desired if the soil is to be reused on-site and a 95% UCL is desired if the soil is to be disposed of offsite or relinquished to a contractor as described in Task Order No. 07-3N5101-PN. The maximum 90% UCL allowed for re-use of on-site soil is 1,496 mg/kg and the maximum 95% UCL allowed for disposal is 350 mg/kg. The one-sided 90 and 95% UCLs of the true mean are defined as the values that, when calculated repeatedly for randomly drawn subsets of site data, equal or exceed the true mean 90 and 95% of the time, respectively. The following statistical equation (from *Chapter Nine, SW-846)* was used to calculate the UCLs:

$$UCL = \bar{x} + t_p \frac{S}{\sqrt{n}}$$

Where:

$\bar{x}$ = sample mean
t_p = student's t for a one-tailed confidence interval and a probability of p
S = standard deviation
n = number of samples

For the purpose of this investigation, the samples were assumed to be collected using systematic random sampling. *Chapter Nine of SW-846* indicates that if the data set is not normally distributed, the data should be transformed, and statistical evaluations should be performed on the transformed scale.

Using histogram graphical representation (Appendix D), the data did not exhibit a normal distribution. The histogram showed that the data were skewed. Based on this graphical evaluation, the data set should be transformed.

Examination of the data indicated that the mean was less than the variance for the non-transformed data indicating that the data set was not normally distributed and transformation was necessary. The raw data was transformed using the arcsine transformation. The arcsine transformation was accomplished by dividing each total lead result by the maximum concentration (this results in a data set of all numbers falling between 0 and 1), then calculating the arcsine of the quotient. $(y_i = arcsine(x_i/x_{max}))$, performing the statistical calculations on the transformed data, and then re-converting the result to real numbers $(z_i = x_{max} sin\ y_i)$.

6. CONCLUSIONS

Reuse conclusions were based upon comparison of the referenced 90% transformed UCLs and average WET-DI results to the DTSC variance and AB 414. Conclusions for surplus material and material relinquished to the contractor were based upon comparison of 95% transformed UCLs and predicted WET-Citric results to CCR Title 22 criteria and HSC limit of 350 mg/kg total lead. Results of CCR Title 22 metals analyses were also used in discussing offsite disposal. A summary of the statistical evaluation results and conclusions is provided below.

A review of the data set mean versus statistical variance indicated that the total lead data set is not normally distributed. A histogram showing date distribution is provided in Appendix D. The results also showed that the mean is less than the statistical variance; therefore, an arcsine transformation was applied. The maximum 90% arcsine transformed UCL and WET-Citric concentrations were 138.6 mg/kg and 8.9 mg/l, respectively for the surface to 0.15 m interval. The calculated correlation factor between total lead concentrations and WET-Citric lead concentrations was 0.8876, indicating satisfactory data correlation. The regression analysis chart of total lead vs. soluble lead is provided in Appendix D.

Based upon the 90% arcsine transformed UCLs and average WET-DI results, the upper 0.6 m of soil is suitable for re-use within the Caltrans rights-of-way. Based upon the 95% arcsine transformed UCLs (148.2 mg/kg) and predicted WET-Citric (9.6 mg/l) results, the upper 0.15 m of soil excavated from the site would likely be classified as a hazardous material with respect to soluble lead content as

defined in CCR Title 22. The underlying soil to from a depth of 0.15 m to 0.60 m would likely be classified as a non-hazardous material with respect to lead content. The entire soil column to a depth of 0.6 m would also likely be classified as a non-hazardous material with respect to lead content.

Based upon TTLC results of two samples with the greatest total lead concentrations, other CCR Title 22 metals do not appear to be a concern; however, additional sampling and statistical analyses would be necessary to fully characterize the soil.

TCLP results from the four samples exhibiting the greatest total lead concentrations indicate that the on-site soils would not likely be characterized as a RCRA waste.

7. RECOMMENDATIONS

Geocon recommends that if any portion of the upper 0.30 m of soil is excavated and reused within the Caltrans right-of-way, it should be placed under at least 0.3 m of clean fill and at least 1.5 m above the maximum groundwater elevation to comply with the DTSC Lead Variance. If the upper 0.15 m of soil excavated at the site is to be disposed, it should be handled as a hazardous material with respect to soluble lead. If the entire soil column to a depth of 0.60 m is disposed as a single unit, it should be handled as a non-hazardous material with respect to lead content. Geocon also recommends that Caltrans notify the contractors performing the construction activities that hazardous concentrations of lead may be present in on-site soil and that appropriate health and safety measures should be taken to minimize the exposure to lead.

8. REPORT LIMITATIONS

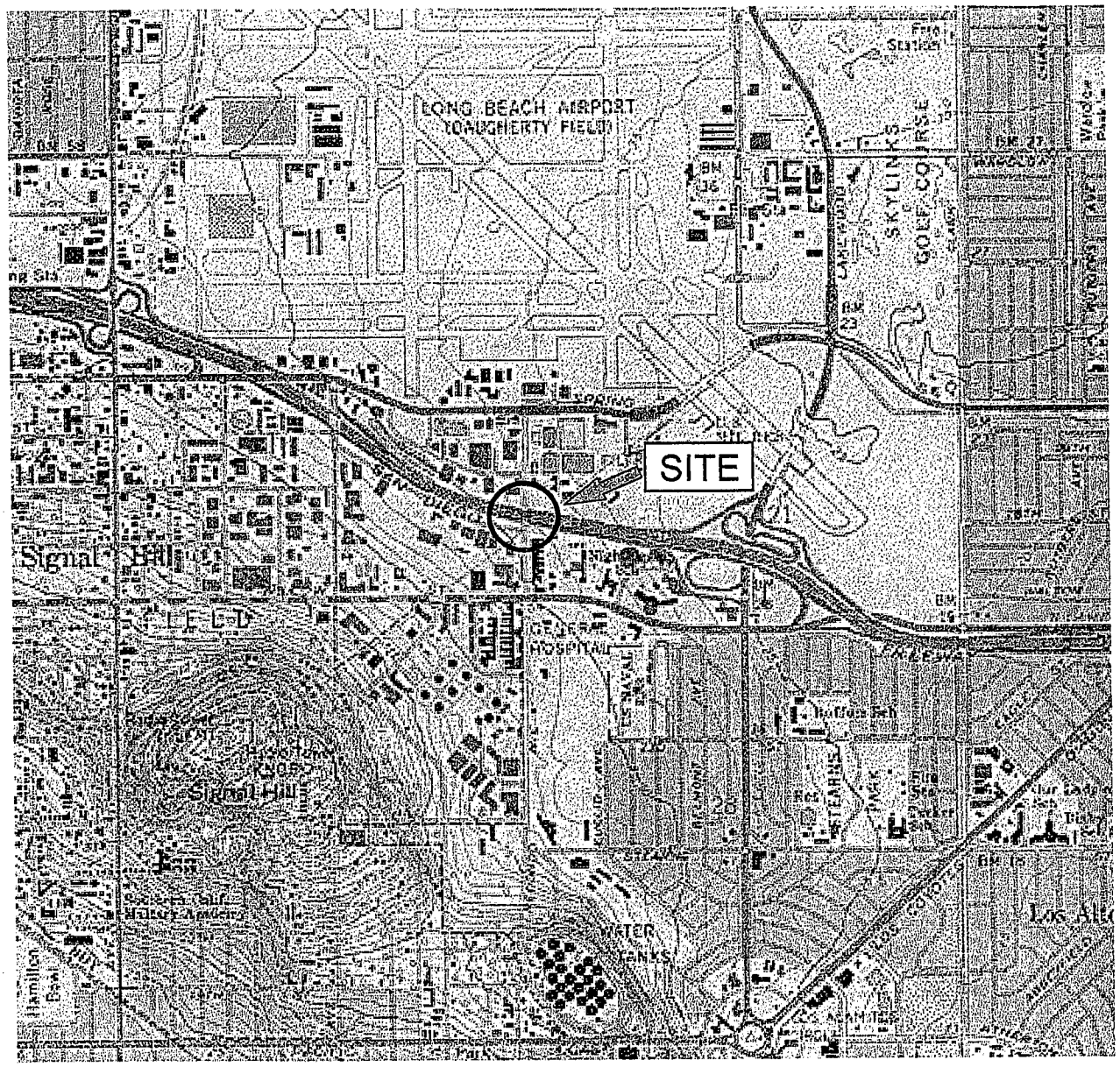
This report has been prepared exclusively for Caltrans. The information obtained is only relevant as of the date of the latest site visit. The information contained herein is only valid as of the date of the report, and will require an update to reflect additional information obtained.

The conclusions and recommendations presented herein are based on a limited number of samples collected from in-place soil and from widely spaced locations according to Caltrans prescribed protocol. The purpose of these sampling and characterization activities was to reasonably predict the character of soil to be disturbed for planned construction activities within the described limits of the Caltrans right of way. The disposition and handling of the soil are governed by the California regulations cited above. Characterization of the soil in the study areas for Federal waste criteria was beyond the scope of work in this Task Order.

Only a limited number of samples were analyzed using the TCLP method used to classify Federal waste. It is possible, that soil disturbed, excavated and stockpiled could exceed Federal standards for hazardous waste and may require handling as a RCRA waste.

The Client should recognize that this report is not a comprehensive site characterization and should not be construed as such. The appropriate regulatory agency may require additional investigations. The findings and conclusions as presented in this report are predicted on the results of the limited soil sampling and laboratory analyses performed. In addition, the information obtained is not intended to address potential impacts related to sources other than those specified herein.

Therefore, the report should only be deemed conclusive with respect to the information obtained. No guarantee or warranty of the results or the report is implied within the intent of this report or any subsequent reports, correspondence, or consultation, either expressed or implied. Geocon strived to perform the services summarized herein in accordance with the local standard of care in the geographic region at the time the services were rendered.



SOURCE : USGS LONG BEACH, CALIFORNIA
7.5' TOPOGRAPHIC QUADRANGLE, 1964
PHOTO REVISED 1981

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0 1"

SCALE: 1=24,000

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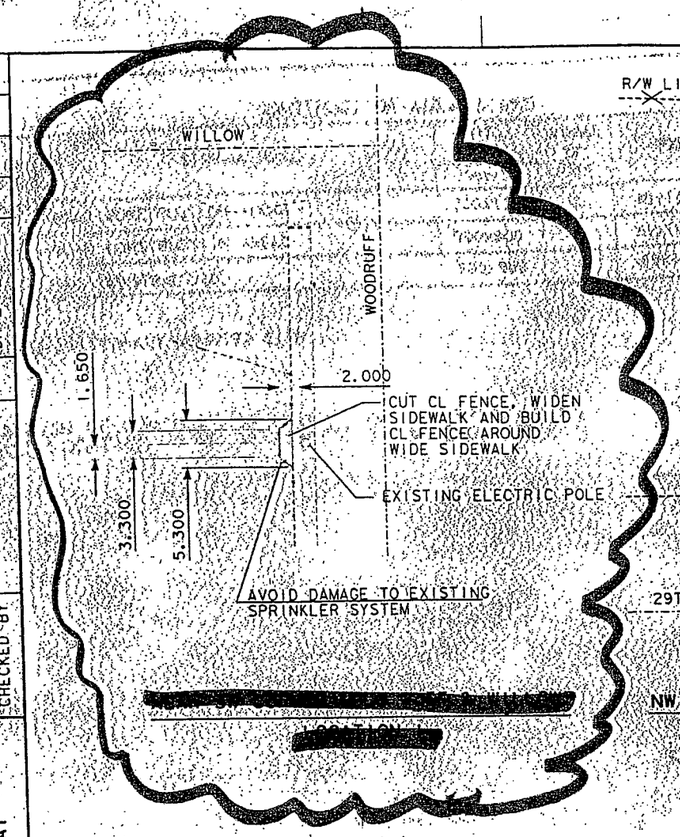
CONSULTANTS, INC.
ENVIRONMENTAL ■ GEOTECHNICAL ■ MATERIALS
450 N. BRAND BLVD., SUITE 600 - GLENDALE, CA 91203
PHONE 818 291-6410 - FAX 818 291-6411

MC/RK		KO 8000

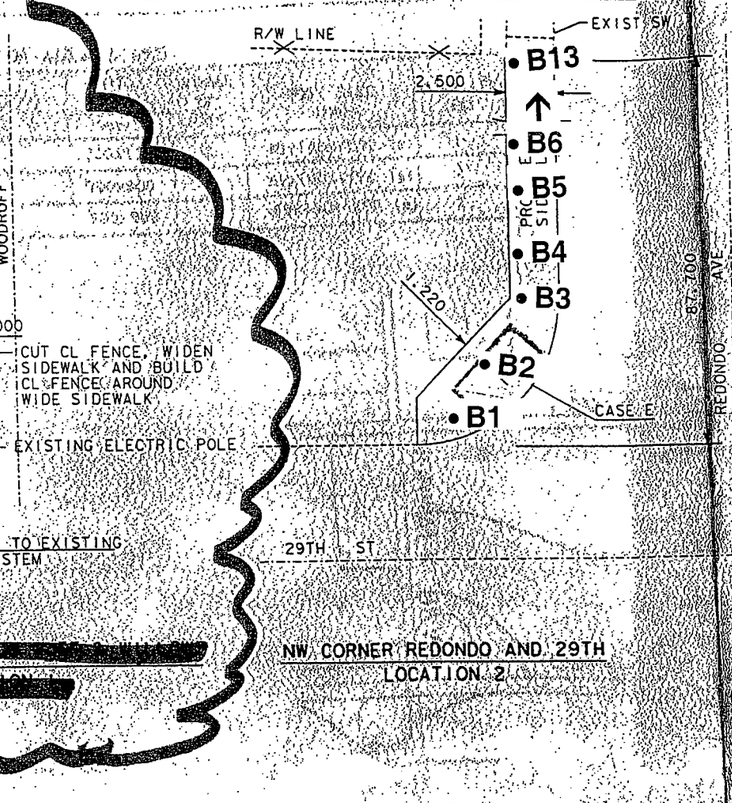
VICINITY MAP

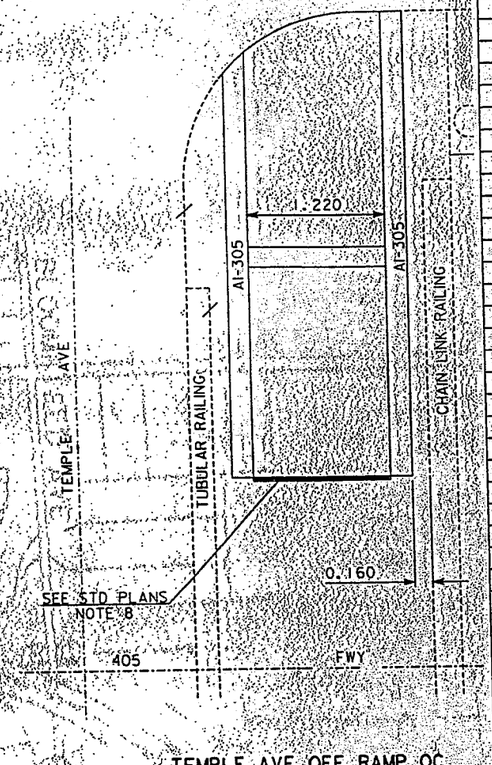
REDONDO AVENUE AND 29TH STREET
LONG BEACH, CALIFORNIA

DATE: 06-19-2002	PROJECT NO. 09100-06-41	FIG. 1

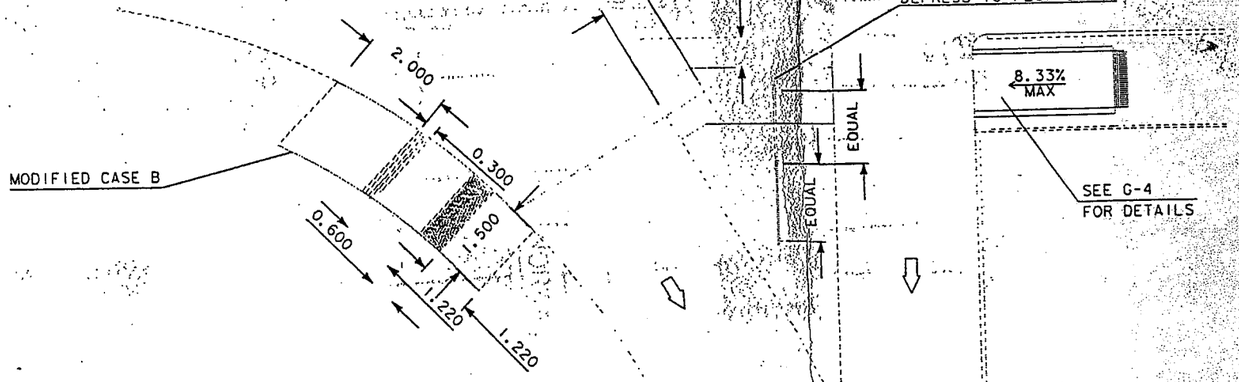


NW CORNER REDONDO AND 29TH
LOCATION 2





TEMPLE AVE OFF RAMP OC
LOCATION 3



S/B ON RAMP FROM SPRING STREET TO RTE 405
LOCATIONS 4, 5, 6

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

Sample ID	Depth	Total Lead	WET Citric	WET DI	TCLP	pH
B1-S	0.15	15	—	—	—	8.69
B1-0.3	0.3	5.6	—	—	—	—
B1-0.6	0.6	ND	—	—	—	—
B2-S	0.15	100	3.8	—	—	—
B2-0.3	0.3	48	—	—	—	—
B2-0.6	0.6	18	—	—	—	—
B3-S	0.15	82	5.7	ND	—	—
B3-0.3	0.3	6.8	—	—	—	—
B3-0.6	0.6	25	—	—	—	—
B4-S	0.15	110	4.2	—	—	8.15
B4-0.3	0.3	6.2	—	—	—	—
B4-0.6	0.6	9.1	—	—	—	—
B5-S	0.15	34	—	—	—	—
B5-0.3	0.3	13	—	—	—	—
B5-0.6	0.6	12	—	—	—	—
B6-S	0.15	130	10	ND	—	—
B6-0.3	0.3	61	5.5	ND	—	—
B6-0.6	0.6	10	—	—	—	—
B7-S	0.15	61	2.4	—	—	—
B7-0.3	0.3	5.8	—	—	—	8.60
B7-0.6	0.6	6.5	—	—	—	—
B8-S	0.15	79	3.4	—	—	—
B8-0.3	0.3	55	2.0	—	—	—
B9-S	0.15	20	—	—	—	—
B9-0.3	0.3	17	—	—	—	—
B9-0.6	0.6	ND	—	—	—	—
B10-S	0.15	210	10	ND	—	—
B10-0.3	0.3	31	—	—	—	—
B10-0.6	0.6	ND	—	—	—	—
B11-S	0.15	50	3.9	—	—	8.40
B11-0.3	0.3	68	5.1	ND	—	—
B11-0.6	0.6	12	—	—	—	—
B12-S	0.15	89	4.7	—	—	—
B12-0.3	0.3	20	—	—	—	—
B12-0.6	0.6	ND	—	—	—	—
B13-S	0.15	240	21	ND	—	—
B13-0.3	0.3	160	9.7	ND	—	—
B13-0.6	0.6	11	—	—	—	—

NOTES

1. FOR COMPLETE AND ACCURATE R/W DATA SEE R/W RECORD MAPS AT DISTRICT OFFICE
2. EXACT LOCATIONS TO BE DETERMINED BY ENGINEER
3. FOR RAMP DETAILS SEE STANDARD PLAN A88
4. ALL NEW SIDEWALKS SHALL BE 100MM THICK
5. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

LEGEND

- ASPHALT PAVING
- LS EXISTING LANDSCAPE
- EXIST CURB RAMP
- ● EXIST LIGHT/SIGNAL POLE TO REMAIN

BORING LOCATION MAP
REDONDO AVENUE AND 29TH STREET

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PROJECT NO. 09100-06-41
FIGURE 2
DATE: 06-19-2002

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT

DATE	REVISED BY	DATE REVISED
CALCULATED/DESIGNED BY		
CHECKED BY		

PROJECT ENGINEER
N. DESAI

ED => @DATE
FN => @TIMF

TABLE I
SUMMARY OF ANALYTICAL LABORATORY RESULTS- SOIL SAMPLES

Sample ID	Depth (Meters)	Total Lead EPA Test Method 6010B (mg/kg)	Soluble Lead – WET Citric EPA Test Method 7420 (mg/l)	Soluble Lead WET-DI Water EPA Test Method 7420 (mg/l)	Soluble Lead TCLP EPA Test Method 7420 (mg/l)	Soil pH EPA Test Method 9045
REDONDO AVENUE AND 29TH STREET						
B1-S	0.15	15	---	---	---	8.69
B1-0.3	0.3	5.6	---	---	---	---
B1-0.6	0.6	ND	---	---	---	---
B2-S	0.15	100	3.8	---	---	---
B2-0.3	0.3	48	---	---	---	---
B2-0.6	0.6	18		---	---	---
B3-S	0.15	82	5.7	ND	---	---
B3-0.3	0.3	6.8	---	---	---	---
B3-0.6	0.6	25	---	---	---	---
B4-S	0.15	110	4.2	---	---	8.15
B4-0.3	0.3	6.2		---	---	---
B4-0.6	0.6	9.1	---	---	---	---
B5-S	0.15	34	---	---	---	---
B5-0.3	0.3	13	---	---	---	---
B5-0.6	0.6	12	---	---	---	---
B6-S	0.15	130	10	ND	0.27	---
B6-0.3	0.3	61	5.5	ND	---	---
B6-0.6	0.6	10	---	---	---	---
B7-S	0.15	61	2.4	---	---	---
B7-0.3	0.3	5.8	---	---	---	8.60
B7-0.6	0.6	6.5	---	---	---	---
B8-S	0.15	79	3.4	---	---	---
B8-0.3	0.3	55	2.0	---	---	---
B9-S	0.15	20	---	---	---	---
B9-0.3	0.3	17	---	---	---	---
B9-0.6	0.6	ND	---	---	---	---
B10-S	0.15	210	10	ND	0.28	---
B10-0.3	0.3	31	---	---	---	---
B10-0.6	0.6	ND	---	---	---	---

TABLE I (concluded)
SUMMARY OF ANALYTICAL LABORATORY RESULTS- SOIL SAMPLES

Sample ID	Depth (Meters)	Total Lead EPA Test Method 6010B (mg/kg)	Soluble Lead – WET Citric EPA Test Method 7420 (mg/l)	Soluble Lead WET-DI Water EPA Test Method 7420 (mg/l)	Soluble Lead TCLP EPA Test Method 7420 (mg/l)	Soil pH EPA Test Method 9045
B11-S	0.15	50	3.9	---	---	8.40
B11-0.3	0.3	68	5.1	ND	---	---
B11-0.6	0.6	12	---	---	---	---
B12-S	0.15	89	4.7	---	---	---
B12-0.3	0.3	20	---	---	---	---
B12-0.6	0.6	ND	---	---	---	---
B13-S	0.15	240	21	ND	0.30	---
B13-0.3	0.3	160	9.7	ND	0.30	---
B13-0.6	0.6	11	---	---	---	---

Notes:

mg/kg = milligrams per kilogram
mg/l = milligrams per liter
ND = Not Detected at Laboratory Reporting Limit (total lead = 5 mg/kg, soluble lead = 0.2 mg/l)
--- = analysis not performed
EPA = United States Environmental Protection Agency
WET = Waste Extraction Test
TCLP = Toxicity Characteristic Leaching Procedure

TABLE II
SUMMARY OF CCR TITLE 22 METALS RESULTS – SOIL SAMPLES
REDONDO AVENUE AND 29TH STREET

Analyte	B10-S	B13-S	R.L.	TTLC MAX	STLC
Antimony	0.5	0.5	0.25	500	15
Arsenic	16	15	0.25	500	5.0
Barium	180	160	0.15	10,000	100
Beryllium	ND	ND	0.15	75	0.75
Cadmium	ND	ND	0.15	100	1.0
Chromium	22	23	0.15	2,500	5.0
Cobalt	8.5	9.5	0.15	8,000	80
Copper	33	38	0.15	2,500	25
Lead	270	340	0.25	1,000	5.0
Mercury	ND	ND	0.1	20	0.20
Molybdenum	1.0	1.0	0.25	3,500	350
Nickel	17	10	0.15	2,000	20
Selenium	ND	ND	0.25	100	1.0
Silver	ND	0.20	0.15	500	5.0
Thallium	0.38	0.5	0.25	700	7.0
Vanadium	32	37	0.15	2,400	24
Zinc	150	150	0.5	5,000	250

Notes:

All results reported in milligrams per kilogram except STLC limits which are in mg/l
Samples analyzed using EPA Test Method 6010B and 7471

TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration
R.L. = Reporting Limit
ND = Analyte not detected at or above the laboratory detection limit.

APPENDIX A

borehole_spreadsheet

unique id	site description	parallel location	lateral location	borehole id	Borehole Latitude	Borehole Longitude
527	per task order			527-101	33.8743467	-118.0643536
527	per task order			527-102	33.8742728	-118.0643151
527	per task order			527-103	33.8742341	-118.0642871
527	per task order			527-104	33.8741947	-118.0642611
527	per task order			527-105	33.8741676	-118.0642231
527	per task order			527-106	33.8741251	-118.0641769
527	per task order			527-107	33.8741052	-118.0641339
527	per task order			527-108	33.8740896	-118.064069
527	per task order			527-109		
527	per task order			527-110		
559	per task order			559-101	33.8066942	-118.1514949
559	per task order			559-102	33.8067548	-118.151487
559	per task order			559-103	33.8068129	-118.151475
559	per task order			559-104	33.8068623	-118.151473
559	per task order			559-105		
559	per task order			559-106		
559	per task order			559-107		
559	per task order			559-108		
559	per task order			559-109		
559	per task order			559-110		
559	per task order			559-111		
559	per task order			559-112	33.8074	-118.1514799
559	per task order			559-113	33.8074675	-118.1514597
559	per task order			559-114		
559	per task order			559-115		

results_spreadsheet

Sample Date	Sample Depth	sample id	test type	value	result	units	method detection limit	analysis date	analyte	matrix	lab name
4/26/02	surface	527-101-0	1. TTLC		29	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02	surface	527-101-0	2. STLC			mg/l			Lead	Soil	
4/26/02	surface	527-101-0	3. STLC-DI			mg/l			Lead	Soil	
4/26/02	surface	527-101-0	4. TCLP			mg/l			Lead	Soil	
4/26/02	surface	527-101-0	5. PH							Soil	
4/26/02	.3 m	527-101-1	1. TTLC		0.3	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02	.3 m	527-101-1	2. STLC			mg/l			Lead	Soil	
4/26/02	.3 m	527-101-1	3. STLC-DI			mg/l			Lead	Soil	
4/26/02	.3 m	527-101-1	4. TCLP			mg/l			Lead	Soil	
4/26/02	.3 m	527-101-1	5. PH							Soil	
4/26/02	.6 m	527-101-2	1. TTLC		6.3	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02	.6 m	527-101-2	2. STLC			mg/l			Lead	Soil	
4/26/02	.6 m	527-101-2	3. STLC-DI			mg/l			Lead	Soil	
4/26/02	.6 m	527-101-2	4. TCLP			mg/l			Lead	Soil	
4/26/02	.6 m	527-101-2	5. PH							Soil	
4/26/02	.9 m	527-101-3	1. TTLC	nd		mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02	.9 m	527-101-3	2. STLC			mg/l			Lead	Soil	
4/26/02	.9 m	527-101-3	3. STLC-DI			mg/l			Lead	Soil	
4/26/02	.9 m	527-101-3	4. TCLP			mg/l			Lead	Soil	
4/26/02	.9 m	527-101-3	5. PH							Soil	
4/26/02	1.5 m	527-101-5	1. TTLC		7.3	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02	1.5 m	527-101-5	2. STLC			mg/l			Lead	Soil	
4/26/02	1.5 m	527-101-5	3. STLC-DI			mg/l			Lead	Soil	
4/26/02	1.5 m	527-101-5	4. TCLP			mg/l			Lead	Soil	
4/26/02	1.5 m	527-101-5	5. PH							Soil	
4/26/02	surface	527-102-0	1. TTLC		77	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02	surface	527-102-0	2. STLC		5	mg/l	0.2		Lead	Soil	Advanced Technology Laboratories
4/26/02	surface	527-102-0	3. STLC-DI			mg/l			Lead	Soil	
4/26/02	surface	527-102-0	4. TCLP		0.42	mg/l	0.2	5/17/02	Lead	Soil	Advanced Technology Laboratories
4/26/02	surface	527-102-0	5. PH		8.05		0.1	4/30/02		Soil	Advanced Technology Laboratories
4/26/02	.3 m	527-102-1	1. TTLC		6.3	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02	.3 m	527-102-1	2. STLC			mg/l			Lead	Soil	
4/26/02	.3 m	527-102-1	3. STLC-DI			mg/l			Lead	Soil	
4/26/02	.3 m	527-102-1	4. TCLP			mg/l			Lead	Soil	
4/26/02	.3 m	527-102-1	5. PH							Soil	
4/26/02	.6 m	527-102-2	1. TTLC		5.5	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02	.6 m	527-102-2	2. STLC			mg/l			Lead	Soil	
4/26/02	.6 m	527-102-2	3. STLC-DI			mg/l			Lead	Soil	
4/26/02	.6 m	527-102-2	4. TCLP			mg/l			Lead	Soil	
4/26/02	.6 m	527-102-2	5. PH							Soil	
4/26/02	.9 m	527-102-3	1. TTLC		5.2	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories

4/26/02 .9 m	527-102-3	2. STLC		mg/l			Lead	Soil		
4/26/02 .9 m	527-102-3	3. STLC-DI		mg/l			Lead	Soil		
4/26/02 .9 m	527-102-3	4. TCLP		mg/l			Lead	Soil		
4/26/02 .9 m	527-102-3	5. PH						Soil		
4/26/02 1.5 m	527-102-5	1. TTLC	5.8	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories	
4/26/02 1.5 m	527-102-5	2. STLC		mg/l			Lead	Soil		
4/26/02 1.5 m	527-102-5	3. STLC-DI		mg/l			Lead	Soil		
4/26/02 1.5 m	527-102-5	4. TCLP		mg/l			Lead	Soil		
4/26/02 1.5 m	527-102-5	5. PH						Soil		
4/26/02 surface	527-103-0	1. TTLC	52	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories	
4/26/02 surface	527-103-0	2. STLC	6.1	mg/l	0.2	5/6/02	Lead	Soil	Advanced Technology Laboratories	
4/26/02 surface	527-103-0	3. STLC-DI nd		mg/l	0.2	5/10/02	Lead	Soil	Advanced Technology Laboratories	
4/26/02 surface	527-103-0	4. TCLP	0.32	mg/l	0.2	5/17/02	Lead	Soil		
4/26/02 surface	527-103-0	5. PH						Soil		
4/26/02 .3 m	527-103-1	1. TTLC	11	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories	
4/26/02 .3 m	527-103-1	2. STLC		mg/l			Lead	Soil		
4/26/02 .3 m	527-103-1	3. STLC-DI		mg/l			Lead	Soil		
4/26/02 .3 m	527-103-1	4. TCLP		mg/l			Lead	Soil		
4/26/02 .3 m	527-103-1	5. PH						Soil		
4/26/02 .6 m	527-103-2	1. TTLC	6	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories	
4/26/02 .6 m	527-103-2	2. STLC		mg/l			Lead	Soil		
4/26/02 .6 m	527-103-2	3. STLC-DI		mg/l			Lead	Soil		
4/26/02 .6 m	527-103-2	4. TCLP		mg/l			Lead	Soil		
4/26/02 .6 m	527-103-2	5. PH						Soil		
4/26/02 .9 m	527-103-3	1. TTLC	5.3	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories	
4/26/02 .9 m	527-103-3	2. STLC		mg/l			Lead	Soil		
4/26/02 .9 m	527-103-3	3. STLC-DI		mg/l			Lead	Soil		
4/26/02 .9 m	527-103-3	4. TCLP		mg/l			Lead	Soil		
4/26/02 .9 m	527-103-3	5. PH						Soil		
4/26/02 1.5 m	527-103-5	1. TTLC	5.1	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories	
4/26/02 1.5 m	527-103-5	2. STLC		mg/l			Lead	Soil		
4/26/02 1.5 m	527-103-5	3. STLC-DI		mg/l			Lead	Soil		
4/26/02 1.5 m	527-103-5	4. TCLP		mg/l			Lead	Soil		
4/26/02 1.5 m	527-103-5	5. PH						Soil		
4/26/02 surface	527-104-0	1. TTLC	33	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories	
4/26/02 surface	527-104-0	2. STLC		mg/l			Lead	Soil		
4/26/02 surface	527-104-0	3. STLC-DI		mg/l			Lead	Soil		
4/26/02 surface	527-104-0	4. TCLP		mg/l			Lead	Soil		
4/26/02 surface	527-104-0	5. PH	8.04		0.1	4/30/02		Soil	Advanced Technology Laboratories	
4/26/02 .3 m	527-104-1	1. TTLC	14	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories	
4/26/02 .3 m	527-104-1	2. STLC		mg/l			Lead	Soil		
4/26/02 .3 m	527-104-1	3. STLC-DI		mg/l			Lead	Soil		

4/26/02	.3 m	527-104-1	4. TCLP		mg/l			Lead	Soil	
4/26/02	.3 m	527-104-1	5. PH						Soil	
4/26/02	.6 m	527-104-2	1. TTLC		16 mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02	.6 m	527-104-2	2. STLC		mg/l			Lead	Soil	
4/26/02	.6 m	527-104-2	3. STLC-DI		mg/l			Lead	Soil	
4/26/02	.6 m	527-104-2	4. TCLP		mg/l			Lead	Soil	
4/26/02	.6 m	527-104-2	5. PH						Soil	
4/26/02	.9 m	527-104-3	1. TTLC		5.6 mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02	.9 m	527-104-3	2. STLC		mg/l			Lead	Soil	
4/26/02	.9 m	527-104-3	3. STLC-DI		mg/l			Lead	Soil	
4/26/02	.9 m	527-104-3	4. TCLP		mg/l			Lead	Soil	
4/26/02	.9 m	527-104-3	5. PH						Soil	
4/26/02	1.5 m	527-104-5	1. TTLC	nd	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02	1.5 m	527-104-5	2. STLC		mg/l			Lead	Soil	
4/26/02	1.5 m	527-104-5	3. STLC-DI		mg/l			Lead	Soil	
4/26/02	1.5 m	527-104-5	4. TCLP		mg/l			Lead	Soil	
4/26/02	1.5 m	527-104-5	5. PH						Soil	
4/26/02	surface	527-105-0	1. TTLC		23 mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02	surface	527-105-0	2. STLC		mg/l			Lead	Soil	
4/26/02	surface	527-105-0	3. STLC-DI		mg/l			Lead	Soil	
4/26/02	surface	527-105-0	4. TCLP		mg/l			Lead	Soil	
4/26/02	surface	527-105-0	5. PH						Soil	
4/26/02	.3 m	527-105-1	1. TTLC		16 mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02	.3 m	527-105-1	2. STLC		mg/l			Lead	Soil	
4/26/02	.3 m	527-105-1	3. STLC-DI		mg/l			Lead	Soil	
4/26/02	.3 m	527-105-1	4. TCLP		mg/l			Lead	Soil	
4/26/02	.3 m	527-105-1	5. PH						Soil	
4/26/02	.6 m	527-105-2	1. TTLC		8.2 mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02	.6 m	527-105-2	2. STLC		mg/l			Lead	Soil	
4/26/02	.6 m	527-105-2	3. STLC-DI		mg/l			Lead	Soil	
4/26/02	.6 m	527-105-2	4. TCLP		mg/l			Lead	Soil	
4/26/02	.6 m	527-105-2	5. PH						Soil	
4/26/02	.9 m	527-105-3	1. TTLC		6.1 mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02	.9 m	527-105-3	2. STLC		mg/l			Lead	Soil	
4/26/02	.9 m	527-105-3	3. STLC-DI		mg/l			Lead	Soil	
4/26/02	.9 m	527-105-3	4. TCLP		mg/l			Lead	Soil	
4/26/02	.9 m	527-105-3	5. PH						Soil	
4/26/02	1.5 m	527-105-5	1. TTLC		6.7 mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02	1.5 m	527-105-5	2. STLC		mg/l			Lead	Soil	
4/26/02	1.5 m	527-105-5	3. STLC-DI		mg/l			Lead	Soil	
4/26/02	1.5 m	527-105-5	4. TCLP		mg/l			Lead	Soil	
4/26/02	1.5 m	527-105-5	5. PH						Soil	

4/26/02 surface	527-106-0	1. TTLC		36	mg/kg		5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 surface	527-106-0	2. STLC			mg/l				Lead	Soil	
4/26/02 surface	527-106-0	3. STLC-DI			mg/l				Lead	Soil	
4/26/02 surface	527-106-0	4. TCLP		0.3	mg/l		0.2	5/17/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 surface	527-106-0	5. PH		5.64			0.1	4/30/02		Soil	Advanced Technology Laboratories
4/26/02 .3 m	527-106-1	1. TTLC		8.5	mg/kg		5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 .3 m	527-106-1	2. STLC			mg/l				Lead	Soil	
4/26/02 .3 m	527-106-1	3. STLC-DI			mg/l				Lead	Soil	
4/26/02 .3 m	527-106-1	4. TCLP			mg/l				Lead	Soil	
4/26/02 .3 m	527-106-1	5. PH								Soil	
4/26/02 .6 m	527-106-2	1. TTLC		7.9	mg/kg		5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 .6 m	527-106-2	2. STLC			mg/l				Lead	Soil	
4/26/02 .6 m	527-106-2	3. STLC-DI			mg/l				Lead	Soil	
4/26/02 .6 m	527-106-2	4. TCLP			mg/l				Lead	Soil	
4/26/02 .6 m	527-106-2	5. PH								Soil	
4/26/02 .9 m	527-106-3	1. TTLC		7.1	mg/kg		5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 .9 m	527-106-3	2. STLC			mg/l				Lead	Soil	
4/26/02 .9 m	527-106-3	3. STLC-DI			mg/l				Lead	Soil	
4/26/02 .9 m	527-106-3	4. TCLP			mg/l				Lead	Soil	
4/26/02 .9 m	527-106-3	5. PH								Soil	
4/26/02 1.5 m	527-106-5	1. TTLC		6	mg/kg		5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 1.5 m	527-106-5	2. STLC			mg/l				Lead	Soil	
4/26/02 1.5 m	527-106-5	3. STLC-DI			mg/l				Lead	Soil	
4/26/02 1.5 m	527-106-5	4. TCLP			mg/l				Lead	Soil	
4/26/02 1.5 m	527-106-5	5. PH								Soil	
4/26/02 surface	527-107-0	1. TTLC		5	mg/kg		5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 surface	527-107-0	2. STLC			mg/l				Lead	Soil	
4/26/02 surface	527-107-0	3. STLC-DI			mg/l				Lead	Soil	
4/26/02 surface	527-107-0	4. TCLP			mg/l				Lead	Soil	
4/26/02 surface	527-107-0	5. PH								Soil	
4/26/02 .3 m	527-107-1	1. TTLC	nd		mg/kg		5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 .3 m	527-107-1	2. STLC			mg/l				Lead	Soil	
4/26/02 .3 m	527-107-1	3. STLC-DI			mg/l				Lead	Soil	
4/26/02 .3 m	527-107-1	4. TCLP			mg/l				Lead	Soil	
4/26/02 .3 m	527-107-1	5. PH								Soil	
4/26/02 .6 m	527-107-2	1. TTLC	nd		mg/kg		5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 .6 m	527-107-2	2. STLC			mg/l				Lead	Soil	
4/26/02 .6 m	527-107-2	3. STLC-DI			mg/l				Lead	Soil	
4/26/02 .6 m	527-107-2	4. TCLP			mg/l				Lead	Soil	
4/26/02 .6 m	527-107-2	5. PH								Soil	
4/26/02 .9 m	527-107-3	1. TTLC		9.3	mg/kg		5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 .9 m	527-107-3	2. STLC			mg/l				Lead	Soil	

4/26/02 .9 m	527-107-3	3. STLC-DI			mg/l			Lead	Soil		
4/26/02 .9 m	527-107-3	4. TCLP			mg/l			Lead	Soil		
4/26/02 .9 m	527-107-3	5. PH							Soil		
4/26/02 1.5 m	527-107-5	1. TTLC		6.7	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories	
4/26/02 1.5 m	527-107-5	2. STLC			mg/l			Lead	Soil		
4/26/02 1.5 m	527-107-5	3. STLC-DI			mg/l			Lead	Soil		
4/26/02 1.5 m	527-107-5	4. TCLP			mg/l			Lead	Soil		
4/26/02 1.5 m	527-107-5	5. PH							Soil		
4/26/02 surface	527-108-0	1. TTLC		94	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories	
4/26/02 surface	527-108-0	2. STLC		4.6	mg/l	0.2	5/6/02	Lead	Soil	Advanced Technology Laboratories	
4/26/02 surface	527-108-0	3. STLC-DI			mg/l			Lead	Soil		
4/26/02 surface	527-108-0	4. TCLP		0.35	mg/l	0.2	5/17/02	Lead	Soil	Advanced Technology Laboratories	
4/26/02 surface	527-108-0	5. PH		7.13		0.1	4/30/02		Soil	Advanced Technology Laboratories	
4/26/02 .3 m	527-108-1	1. TTLC	nd		mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories	
4/26/02 .3 m	527-108-1	2. STLC			mg/l			Lead	Soil		
4/26/02 .3 m	527-108-1	3. STLC-DI			mg/l			Lead	Soil		
4/26/02 .3 m	527-108-1	4. TCLP			mg/l			Lead	Soil		
4/26/02 .3 m	527-108-1	5. PH							Soil		
4/26/02 .6 m	527-108-2	1. TTLC	nd		mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories	
4/26/02 .6 m	527-108-2	2. STLC			mg/l			Lead	Soil		
4/26/02 .6 m	527-108-2	3. STLC-DI			mg/l			Lead	Soil		
4/26/02 .6 m	527-108-2	4. TCLP			mg/l			Lead	Soil		
4/26/02 .6 m	527-108-2	5. PH							Soil		
4/26/02 .9 m	527-108-3	1. TTLC	nd		mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories	
4/26/02 .9 m	527-108-3	2. STLC			mg/l			Lead	Soil		
4/26/02 .9 m	527-108-3	3. STLC-DI			mg/l			Lead	Soil		
4/26/02 .9 m	527-108-3	4. TCLP			mg/l			Lead	Soil		
4/26/02 .9 m	527-108-3	5. PH							Soil		
4/26/02 1.5 m	527-108-5	1. TTLC			mg/kg			Lead	Soil		
4/26/02 1.5 m	527-108-5	2. STLC			mg/l			Lead	Soil		
4/26/02 1.5 m	527-108-5	3. STLC-DI			mg/l			Lead	Soil		
4/26/02 1.5 m	527-108-5	4. TCLP			mg/l			Lead	Soil		
4/26/02 1.5 m	527-108-5	5. PH							Soil		
4/26/02 surface	527-109-0	1. TTLC			mg/kg			Lead	Soil		
4/26/02 surface	527-109-0	2. STLC			mg/l			Lead	Soil		
4/26/02 surface	527-109-0	3. STLC-DI			mg/l			Lead	Soil		
4/26/02 surface	527-109-0	4. TCLP			mg/l			Lead	Soil		
4/26/02 surface	527-109-0	5. PH							Soil		
4/26/02 .3 m	527-109-1	1. TTLC			mg/kg			Lead	Soil		
4/26/02 .3 m	527-109-1	2. STLC			mg/l			Lead	Soil		
4/26/02 .3 m	527-109-1	3. STLC-DI			mg/l			Lead	Soil		
4/26/02 .3 m	527-109-1	4. TCLP			mg/l			Lead	Soil		

4/26/02	.3 m	527-109-1	5. PH					Soil	
4/26/02	.6 m	527-109-2	1. TTLC	mg/kg			Lead	Soil	
4/26/02	.6 m	527-109-2	2. STLC	mg/l			Lead	Soil	
4/26/02	.6 m	527-109-2	3. STLC-DI	mg/l			Lead	Soil	
4/26/02	.6 m	527-109-2	4. TCLP	mg/l			Lead	Soil	
4/26/02	.6 m	527-109-2	5. PH					Soil	
4/26/02	.9 m	527-109-3	1. TTLC	mg/kg			Lead	Soil	
4/26/02	.9 m	527-109-3	2. STLC	mg/l			Lead	Soil	
4/26/02	.9 m	527-109-3	3. STLC-DI	mg/l			Lead	Soil	
4/26/02	.9 m	527-109-3	4. TCLP	mg/l			Lead	Soil	
4/26/02	.9 m	527-109-3	5. PH					Soil	
4/26/02	1.5 m	527-109-5	1. TTLC	mg/kg			Lead	Soil	
4/26/02	1.5 m	527-109-5	2. STLC	mg/l			Lead	Soil	
4/26/02	1.5 m	527-109-5	3. STLC-DI	mg/l			Lead	Soil	
4/26/02	1.5 m	527-109-5	4. TCLP	mg/l			Lead	Soil	
4/26/02	1.5 m	527-109-5	5. PH					Soil	
4/26/02	surface	527-110-0	1. TTLC	mg/kg			Lead	Soil	
4/26/02	surface	527-110-0	2. STLC	mg/l			Lead	Soil	
4/26/02	surface	527-110-0	3. STLC-DI	mg/l			Lead	Soil	
4/26/02	surface	527-110-0	4. TCLP	mg/l			Lead	Soil	
4/26/02	surface	527-110-0	5. PH					Soil	
4/26/02	.3 m	527-110-1	1. TTLC	mg/kg			Lead	Soil	
4/26/02	.3 m	527-110-1	2. STLC	mg/l			Lead	Soil	
4/26/02	.3 m	527-110-1	3. STLC-DI	mg/l			Lead	Soil	
4/26/02	.3 m	527-110-1	4. TCLP	mg/l			Lead	Soil	
4/26/02	.3 m	527-110-1	5. PH					Soil	
4/26/02	.6 m	527-110-2	1. TTLC	mg/kg			Lead	Soil	
4/26/02	.6 m	527-110-2	2. STLC	mg/l			Lead	Soil	
4/26/02	.6 m	527-110-2	3. STLC-DI	mg/l			Lead	Soil	
4/26/02	.6 m	527-110-2	4. TCLP	mg/l			Lead	Soil	
4/26/02	.6 m	527-110-2	5. PH					Soil	
4/26/02	.9 m	527-110-3	1. TTLC	mg/kg			Lead	Soil	
4/26/02	.9 m	527-110-3	2. STLC	mg/l			Lead	Soil	
4/26/02	.9 m	527-110-3	3. STLC-DI	mg/l			Lead	Soil	
4/26/02	.9 m	527-110-3	4. TCLP	mg/l			Lead	Soil	
4/26/02	.9 m	527-110-3	5. PH					Soil	
4/26/02	1.5 m	527-110-5	1. TTLC	mg/kg			Lead	Soil	
4/26/02	1.5 m	527-110-5	2. STLC	mg/l			Lead	Soil	
4/26/02	1.5 m	527-110-5	3. STLC-DI	mg/l			Lead	Soil	
4/26/02	1.5 m	527-110-5	4. TCLP	mg/l			Lead	Soil	
4/26/02	1.5 m	527-110-5	5. PH					Soil	
4/26/02	surface	559-101-0	1. TTLC	15	mg/kg	5	5/1/02 Lead	Soil	Advanced Technology Laboratories

4/26/02 surface	559-101-0	2. STLC			mg/l			Lead	Soil	
4/26/02 surface	559-101-0	3. STLC-DI			mg/l			Lead	Soil	
4/26/02 surface	559-101-0	4. TCLP			mg/l			Lead	Soil	
4/26/02 surface	559-101-0	5. PH		8.69		0.1	4/30/02		Soil	Advanced Technology Laboratories
4/26/02 .3 m	559-101-1	1. TTLC		5.6	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 .3 m	559-101-1	2. STLC			mg/l			Lead	Soil	
4/26/02 .3 m	559-101-1	3. STLC-DI			mg/l			Lead	Soil	
4/26/02 .3 m	559-101-1	4. TCLP			mg/l			Lead	Soil	
4/26/02 .3 m	559-101-1	5. PH							Soil	
4/26/02 .6 m	559-101-2	1. TTLC	nd		mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 .6 m	559-101-2	2. STLC			mg/l			Lead	Soil	
4/26/02 .6 m	559-101-2	3. STLC-DI			mg/l			Lead	Soil	
4/26/02 .6 m	559-101-2	4. TCLP			mg/l			Lead	Soil	
4/26/02 .6 m	559-101-2	5. PH							Soil	
4/26/02 surface	559-102-0	1. TTLC		100	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 surface	559-102-0	2. STLC		3.8	mg/l	0.2	5/6/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 surface	559-102-0	3. STLC-DI			mg/l			Lead	Soil	
4/26/02 surface	559-102-0	4. TCLP			mg/l			Lead	Soil	
4/26/02 surface	559-102-0	5. PH							Soil	
4/26/02 .3 m	559-102-1	1. TTLC		48	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 .3 m	559-102-1	2. STLC			mg/l			Lead	Soil	
4/26/02 .3 m	559-102-1	3. STLC-DI			mg/l			Lead	Soil	
4/26/02 .3 m	559-102-1	4. TCLP			mg/l			Lead	Soil	
4/26/02 .3 m	559-102-1	5. PH							Soil	
4/26/02 .6 m	559-102-2	1. TTLC		18	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 .6 m	559-102-2	2. STLC			mg/l			Lead	Soil	
4/26/02 .6 m	559-102-2	3. STLC-DI			mg/l			Lead	Soil	
4/26/02 .6 m	559-102-2	4. TCLP			mg/l			Lead	Soil	
4/26/02 .6 m	559-102-2	5. PH							Soil	
4/26/02 surface	559-103-0	1. TTLC		82	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 surface	559-103-0	2. STLC		5.7	mg/l	0.2	5/6/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 surface	559-103-0	3. STLC-DI	nd		mg/l	0.2	5/10/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 surface	559-103-0	4. TCLP			mg/l			Lead	Soil	
4/26/02 surface	559-103-0	5. PH							Soil	
4/26/02 .3 m	559-103-1	1. TTLC		6.8	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 .3 m	559-103-1	2. STLC			mg/l			Lead	Soil	
4/26/02 .3 m	559-103-1	3. STLC-DI			mg/l			Lead	Soil	

4/26/02 .3 m	559-103-1	4. TCLP		mg/l			Lead	Soil	
4/26/02 .3 m	559-103-1	5. PH						Soil	
4/26/02 .6 m	559-103-2	1. TTLC	25	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 .6 m	559-103-2	2. STLC		mg/l			Lead	Soil	
4/26/02 .6 m	559-103-2	3. STLC-DI		mg/l			Lead	Soil	
4/26/02 .6 m	559-103-2	4. TCLP		mg/l			Lead	Soil	
4/26/02 .6 m	559-103-2	5. PH						Soil	
4/26/02 surface	559-104-0	1. TTLC	110	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 surface	559-104-0	2. STLC	4.2	mg/l	0.2	5/6/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 surface	559-104-0	3. STLC-DI		mg/l			Lead	Soil	
4/26/02 surface	559-104-0	4. TCLP		mg/l			Lead	Soil	
4/26/02 surface	559-104-0	5. PH	8.15		0.1	4/30/02		Soil	Advanced Technology Laboratories
4/26/02 .3 m	559-104-1	1. TTLC	6.2	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 .3 m	559-104-1	2. STLC		mg/l			Lead	Soil	
4/26/02 .3 m	559-104-1	3. STLC-DI		mg/l			Lead	Soil	
4/26/02 .3 m	559-104-1	4. TCLP		mg/l			Lead	Soil	
4/26/02 .3 m	559-104-1	5. PH						Soil	
4/26/02 .6 m	559-104-2	1. TTLC	9.1	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 .6 m	559-104-2	2. STLC		mg/l			Lead	Soil	
4/26/02 .6 m	559-104-2	3. STLC-DI		mg/l			Lead	Soil	
4/26/02 .6 m	559-104-2	4. TCLP		mg/l			Lead	Soil	
4/26/02 .6 m	559-104-2	5. PH						Soil	
4/26/02 surface	559-105-0	1. TTLC	34	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 surface	559-105-0	2. STLC		mg/l			Lead	Soil	
4/26/02 surface	559-105-0	3. STLC-DI		mg/l			Lead	Soil	
4/26/02 surface	559-105-0	4. TCLP		mg/l			Lead	Soil	
4/26/02 surface	559-105-0	5. PH						Soil	
4/26/02 .3 m	559-105-1	1. TTLC	13	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 .3 m	559-105-1	2. STLC		mg/l			Lead	Soil	
4/26/02 .3 m	559-105-1	3. STLC-DI		mg/l			Lead	Soil	
4/26/02 .3 m	559-105-1	4. TCLP		mg/l			Lead	Soil	
4/26/02 .3 m	559-105-1	5. PH						Soil	
4/26/02 .6 m	559-105-2	1. TTLC	12	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 .6 m	559-105-2	2. STLC		mg/l			Lead	Soil	
4/26/02 .6 m	559-105-2	3. STLC-DI		mg/l			Lead	Soil	
4/26/02 .6 m	559-105-2	4. TCLP		mg/l			Lead	Soil	
4/26/02 .6 m	559-105-2	5. PH						Soil	

4/26/02 surface	559-106-0	1. TTLC	130	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 surface	559-106-0	2. STLC	10	mg/l	0.2	5/6/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 surface	559-106-0	3. STLC-DI nd		mg/l	0.2	5/10/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 surface	559-106-0	4. TCLP	0.27	mg/l	0.2	5/17/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 surface	559-106-0	5. PH						Soil	
4/26/02 .3 m	559-106-1	1. TTLC	61	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 .3 m	559-106-1	2. STLC	5.5	mg/l	0.2	5/6/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 .3 m	559-106-1	3. STLC-DI nd		mg/l	0.2	5/10/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 .3 m	559-106-1	4. TCLP		mg/l			Lead	Soil	
4/26/02 .3 m	559-106-1	5. PH						Soil	
4/26/02 .6 m	559-106-2	1. TTLC	10	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 .6 m	559-106-2	2. STLC		mg/l			Lead	Soil	
4/26/02 .6 m	559-106-2	3. STLC-DI		mg/l			Lead	Soil	
4/26/02 .6 m	559-106-2	4. TCLP		mg/l			Lead	Soil	
4/26/02 .6 m	559-106-2	5. PH						Soil	
4/26/02 surface	559-107-0	1. TTLC	61	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 surface	559-107-0	2. STLC	2.4	mg/l	0.2	5/6/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 surface	559-107-0	3. STLC-DI		mg/l			Lead	Soil	
4/26/02 surface	559-107-0	4. TCLP		mg/l			Lead	Soil	
4/26/02 surface	559-107-0	5. PH						Soil	
4/26/02 .3 m	559-107-1	1. TTLC	5.8	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 .3 m	559-107-1	2. STLC		mg/l			Lead	Soil	
4/26/02 .3 m	559-107-1	3. STLC-DI		mg/l			Lead	Soil	
4/26/02 .3 m	559-107-1	4. TCLP		mg/l			Lead	Soil	
4/26/02 .3 m	559-107-1	5. PH	8.6		0.1	4/30/02		Soil	Advanced Technology Laboratories
4/26/02 .6 m	559-107-2	1. TTLC	6.5	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 .6 m	559-107-2	2. STLC		mg/l			Lead	Soil	
4/26/02 .6 m	559-107-2	3. STLC-DI		mg/l			Lead	Soil	
4/26/02 .6 m	559-107-2	4. TCLP		mg/l			Lead	Soil	
4/26/02 .6 m	559-107-2	5. PH						Soil	
4/26/02 surface	559-108-0	1. TTLC	79	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 surface	559-108-0	2. STLC	3.4	mg/l	0.2	5/6/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 surface	559-108-0	3. STLC-DI		mg/l			Lead	Soil	
4/26/02 surface	559-108-0	4. TCLP		mg/l			Lead	Soil	
4/26/02 surface	559-108-0	5. PH						Soil	
4/26/02 .3 m	559-108-1	1. TTLC	55	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 .3 m	559-108-1	2. STLC	2	mg/l	0.2	5/6/02	Lead	Soil	Advanced Technology Laboratories

4/26/02	.3 m	559-108-1	3. STLC-DI		mg/l			Lead	Soil	
4/26/02	.3 m	559-108-1	4. TCLP		mg/l			Lead	Soil	
4/26/02	.3 m	559-108-1	5. PH						Soil	
4/26/02	.6 m	559-108-2	1. TTLC		mg/kg			Lead	Soil	
4/26/02	.6 m	559-108-2	2. STLC		mg/l			Lead	Soil	
4/26/02	.6 m	559-108-2	3. STLC-DI		mg/l			Lead	Soil	
4/26/02	.6 m	559-108-2	4. TCLP		mg/l			Lead	Soil	
4/26/02	.6 m	559-108-2	5. PH						Soil	
4/26/02	surface	559-109-0	1. TTLC		20 mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02	surface	559-109-0	2. STLC		mg/l			Lead	Soil	
4/26/02	surface	559-109-0	3. STLC-DI		mg/l			Lead	Soil	
4/26/02	surface	559-109-0	4. TCLP		mg/l			Lead	Soil	
4/26/02	surface	559-109-0	5. PH						Soil	
4/26/02	.3 m	559-109-1	1. TTLC		17 mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02	.3 m	559-109-1	2. STLC		mg/l			Lead	Soil	
4/26/02	.3 m	559-109-1	3. STLC-DI		mg/l			Lead	Soil	
4/26/02	.3 m	559-109-1	4. TCLP		mg/l			Lead	Soil	
4/26/02	.3 m	559-109-1	5. PH						Soil	
4/26/02	.6 m	559-109-2	1. TTLC	nd	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02	.6 m	559-109-2	2. STLC		mg/l			Lead	Soil	
4/26/02	.6 m	559-109-2	3. STLC-DI		mg/l			Lead	Soil	
4/26/02	.6 m	559-109-2	4. TCLP		mg/l			Lead	Soil	
4/26/02	.6 m	559-109-2	5. PH						Soil	
4/26/02	surface	559-110-0	1. TTLC		210 mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02	surface	559-110-0	2. STLC		10 mg/l	0.2	5/6/02	Lead	Soil	Advanced Technology Laboratories
4/26/02	surface	559-110-0	3. STLC-DI	nd	mg/l	0.2	5/10/02	Lead	Soil	Advanced Technology Laboratories
4/26/02	surface	559-110-0	4. TCLP		0.28 mg/l	0.2	5/17/02	Lead	Soil	Advanced Technology Laboratories
4/26/02	surface	559-110-0	5. PH						Soil	
4/26/02	.3 m	559-110-1	1. TTLC		31 mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02	.3 m	559-110-1	2. STLC		mg/l			Lead	Soil	
4/26/02	.3 m	559-110-1	3. STLC-DI		mg/l			Lead	Soil	
4/26/02	.3 m	559-110-1	4. TCLP		mg/l			Lead	Soil	
4/26/02	.3 m	559-110-1	5. PH						Soil	
4/26/02	.6 m	559-110-2	1. TTLC	nd	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02	.6 m	559-110-2	2. STLC		mg/l			Lead	Soil	
4/26/02	.6 m	559-110-2	3. STLC-DI		mg/l			Lead	Soil	
4/26/02	.6 m	559-110-2	4. TCLP		mg/l			Lead	Soil	

4/26/02	.6 m	559-110-2	5. PH						Soil	
4/26/02	surface	559-111-0	1. TTLC	50	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02	surface	559-111-0	2. STLC	3.9	mg/l	0.2	5/6/02	Lead	Soil	Advanced Technology Laboratories
4/26/02	surface	559-111-0	3. STLC-DI		mg/l			Lead	Soil	
4/26/02	surface	559-111-0	4. TCLP		mg/l			Lead	Soil	
4/26/02	surface	559-111-0	5. PH	8.4		0.1	4/30/02		Soil	Advanced Technology Laboratories
4/26/02	.3 m	559-111-1	1. TTLC	68	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02	.3 m	559-111-1	2. STLC	5.1	mg/l	0.2	5/6/02	Lead	Soil	Advanced Technology Laboratories
4/26/02	.3 m	559-111-1	3. STLC-DI nd		mg/l	0.2	5/10/02	Lead	Soil	Advanced Technology Laboratories
4/26/02	.3 m	559-111-1	4. TCLP		mg/l			Lead	Soil	
4/26/02	.3 m	559-111-1	5. PH						Soil	
4/26/02	.6 m	559-111-2	1. TTLC	12	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02	.6 m	559-111-2	2. STLC		mg/l			Lead	Soil	
4/26/02	.6 m	559-111-2	3. STLC-DI		mg/l			Lead	Soil	
4/26/02	.6 m	559-111-2	4. TCLP		mg/l			Lead	Soil	
4/26/02	.6 m	559-111-2	5. PH						Soil	
4/26/02	surface	559-112-0	1. TTLC	89	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02	surface	559-112-0	2. STLC	4.7	mg/l	0.2	5/6/02	Lead	Soil	Advanced Technology Laboratories
4/26/02	surface	559-112-0	3. STLC-DI		mg/l			Lead	Soil	
4/26/02	surface	559-112-0	4. TCLP		mg/l			Lead	Soil	
4/26/02	surface	559-112-0	5. PH						Soil	
4/26/02	.3 m	559-112-1	1. TTLC	20	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02	.3 m	559-112-1	2. STLC		mg/l			Lead	Soil	
4/26/02	.3 m	559-112-1	3. STLC-DI		mg/l			Lead	Soil	
4/26/02	.3 m	559-112-1	4. TCLP		mg/l			Lead	Soil	
4/26/02	.3 m	559-112-1	5. PH						Soil	
4/26/02	.6 m	559-112-2	1. TTLC nd		mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02	.6 m	559-112-2	2. STLC		mg/l			Lead	Soil	
4/26/02	.6 m	559-112-2	3. STLC-DI		mg/l			Lead	Soil	
4/26/02	.6 m	559-112-2	4. TCLP		mg/l			Lead	Soil	
4/26/02	.6 m	559-112-2	5. PH						Soil	
4/26/02	surface	559-113-0	1. TTLC	240	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02	surface	559-113-0	2. STLC	21	mg/l	0.2	5/6/02	Lead	Soil	Advanced Technology Laboratories
4/26/02	surface	559-113-0	3. STLC-DI nd		mg/l	0.2	5/10/02	Lead	Soil	Advanced Technology Laboratories
4/26/02	surface	559-113-0	4. TCLP	0.3	mg/l	0.2	5/17/02	Lead	Soil	Advanced Technology Laboratories
4/26/02	surface	559-113-0	5. PH						Soil	
4/26/02	.3 m	559-113-1	1. TTLC	160	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories

4/26/02 .3 m	559-113-1	2. STLC	9.7	mg/l	0.2	5/6/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 .3 m	559-113-1	3. STLC-DI	nd	mg/l	0.2	5/10/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 .3 m	559-113-1	4. TCLP	0.3	mg/l	0.2	5/17/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 .3 m	559-113-1	5. PH						Soil	
4/26/02 .6 m	559-113-2	1. TTLC	11	mg/kg	5	5/1/02	Lead	Soil	Advanced Technology Laboratories
4/26/02 .6 m	559-113-2	2. STLC		mg/l			Lead	Soil	
4/26/02 .6 m	559-113-2	3. STLC-DI		mg/l			Lead	Soil	
4/26/02 .6 m	559-113-2	4. TCLP		mg/l			Lead	Soil	
4/26/02 .6 m	559-113-2	5. PH						Soil	
4/26/02 surface	559-114-0	1. TTLC		mg/kg			Lead	Soil	
4/26/02 surface	559-114-0	2. STLC		mg/l			Lead	Soil	
4/26/02 surface	559-114-0	3. STLC-DI		mg/l			Lead	Soil	
4/26/02 surface	559-114-0	4. TCLP		mg/l			Lead	Soil	
4/26/02 surface	559-114-0	5. PH						Soil	
4/26/02 .3 m	559-114-1	1. TTLC		mg/kg			Lead	Soil	
4/26/02 .3 m	559-114-1	2. STLC		mg/l			Lead	Soil	
4/26/02 .3 m	559-114-1	3. STLC-DI		mg/l			Lead	Soil	
4/26/02 .3 m	559-114-1	4. TCLP		mg/l			Lead	Soil	
4/26/02 .3 m	559-114-1	5. PH						Soil	
4/26/02 .6 m	559-114-2	1. TTLC		mg/kg			Lead	Soil	
4/26/02 .6 m	559-114-2	2. STLC		mg/l			Lead	Soil	
4/26/02 .6 m	559-114-2	3. STLC-DI		mg/l			Lead	Soil	
4/26/02 .6 m	559-114-2	4. TCLP		mg/l			Lead	Soil	
4/26/02 .6 m	559-114-2	5. PH						Soil	
4/26/02 surface	559-115-0	1. TTLC		mg/kg			Lead	Soil	
4/26/02 surface	559-115-0	2. STLC		mg/l			Lead	Soil	
4/26/02 surface	559-115-0	3. STLC-DI		mg/l			Lead	Soil	
4/26/02 surface	559-115-0	4. TCLP		mg/l			Lead	Soil	
4/26/02 surface	559-115-0	5. PH						Soil	
4/26/02 .3 m	559-115-1	1. TTLC		mg/kg			Lead	Soil	
4/26/02 .3 m	559-115-1	2. STLC		mg/l			Lead	Soil	
4/26/02 .3 m	559-115-1	3. STLC-DI		mg/l			Lead	Soil	
4/26/02 .3 m	559-115-1	4. TCLP		mg/l			Lead	Soil	
4/26/02 .3 m	559-115-1	5. PH						Soil	
4/26/02 .6 m	559-115-2	1. TTLC		mg/kg			Lead	Soil	
4/26/02 .6 m	559-115-2	2. STLC		mg/l			Lead	Soil	
4/26/02 .6 m	559-115-2	3. STLC-DI		mg/l			Lead	Soil	

4/26/02 .6 m	559-115-2	4. TCLP	mg/l	Lead	Soil
4/26/02 .6 m	559-115-2	5. PH			Soil

APPENDIX B

APPENDIX B

GEOCON CONSULTANTS, INC.
MODIFIED STANDARD OPERATING PROCEDURE (SOP) NO. 11
HAND-AUGERING AND SOIL SAMPLE COLLECTION/HANDLING

Purpose

The purpose of this SOP is to outline procedures and methods to be used to advance hand-augers and collect soil samples for chemical analyses.

Hand-Augering and Soil Sample Collection/Handling Procedures

1. Initiate boring using a hand-held 7.62 centimeter diameter stainless steel auger.

2. Advance boring to initial sample depth of approximately 0 to 0.15 m below the ground surface.

3. Transfer the soil sample from the hand auger into a plastic bag to homogenize the sample, transfer the sample from the plastic bag to a glass jar supplied by the laboratory. Label glass jar with the boring number, EA number, and sample depth.

4. Record the sample identification, time and date of sample collection, sample matrix type, turn-around time, and container type on the laboratory chain of custody.

5. Each prepared sample jar will be placed into a cooler for transport to Advanced Technology Laboratories.

6. Repeat the procedure and collect soil samples at subsequent depths as specified in the Task Order, if possible.

7. Backfill the borings to surface grade with soil cuttings generated.

8. Clean and rinse sampling equipment prior to the collection of each soil sample by washing the equipment with a non-phosphate detergent followed by subsequent tap water and deionized water rinses.

9. Transport all samples to Advance Technology Laboratories under chain of custody control.

APPENDIX C

May 02, 2002

Greg Adams
Geocon Environmental
6970 Flanders Drive
San Diego, CA 92121
TEL: (858) 558-6100
FAX (858) 558-8437

ELAP No: 1838

RE: RTE 405-EA4N4601 - 9100-06-41

Work Order No.: 056590

Attention: Greg Adams

Enclosed are the results for sample(s) received on April 26, 2002 by Advanced Technology Laboratories and tested for the parameters indicated in the enclosed chain of custody.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Edgar Caballero
Laboratory Director

MAY 17 2002

This cover letter is an integral part of this analytical report.

CHAIN OF CUSTODY RECORD

Pg 1 of 4

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90807
(562) 989-4045 • FAX (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#:

Logged By: SM Date: 4/26/02 Time: 3:15 pm

Method of Transport: Walk-in ☑ Courier ☐ UPS ☐ FED. EXP. ☐ ATL ☐

Sample Condition Upon Receipt:
1. CHILLED Y☐ N☑ 4. SEALED Y☐ N☑
2. HEADSPACE (VOA) Y☐ N☐ 5. # OF SPLS MATCH COC Y☑ N☐
3. CONTAINER INTACT Y☑ N☐ 6. PRESERVED Y☐ N☑

Client: GEOCON ENVIRONMENTAL - SAN DIEGO
Address: 6970 Flanders Drive
TEL: (858) 558-6100
Attn: GREG ADAMS
City San Diego State CA Zip Code 92121
FAX: (858) 558-8437
Project Name: RTE 405-EA4N4601 Project #: 9100-06-41 Sampler: (Printed Name) GCA (Signature)

Relinquished by: (Signature and Printed Name) GCA Date: 4/26/02 Time: Received by: (Signature and Printed Name)
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: 4/26/02 Time: 2:14 pm
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: GCA (Print Name) 4/26/02 (Date) (Signature)

Send Report To: Attn: Co: Client Address City State Zip

Bill To: Attn: Co: Client Address City State Zip

Special Instructions/Comments: Run WETCitric if total lead is ≥ 50 mg/kg & < 1,000 mg/kg. Run WETDI if WET Cleric is > 5 mg/l. Run TCLP if total lead is > 1,000 mg/kg. Run pH on 10% of min of 4. Run Title 22 metals on 2 highs.

Unless otherwise requested, all samples will be disposed 45 days after receipt.

Sample Archive/Disposal:
☐ Laboratory Standard
☐ Other
☐ Return To:
* $10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.

Circle or Add Analysis(es) Requested: 8081 / 8082 (Pesticides/PCB-GC) | 8260 (Volatiles-GC/MS) | 625 / 8270 (BNA-GC/MS) | Metals-Total (CAC-6010 / 7000) | 8015M TPHG/BTEX (COMBINATION) | 8015M TPHD (Diesel-GC) | Total Lead 6010

CIRCLE APPROPRIATE MATRIX: SOLID • SOIL • SLUDGE | OIL • SOLVENT • LIQUID | WATER • WASTEWATER | DRINKING WATER | AIR | WIPE • FILTER | OTHER

ITEM	LAB USE ONLY: Batch # / Lab No.	Sample Description: Sample I.D.	Date	Time	TAT	Container(s): #	Type	PRESERVATION	REMARKS
	256540-001	B1-S	4/26	12:43					
	-002	B1-0.3		12:44					
	-003	B1-0.6		12:45					
	-004	B2-S		12:49					
	-005	B2-0.3		12:49					
	-006	B2-0.6		12:50					
	-007	B3-S		12:50					
	-008	B3-0.3		12:53					
	-009	B3-0.6		12:57					
	-010	B4-S		12:53	D	1	JG		

QA/QC: RTNE ☐ RWQCB ☐ WIP ☐ NAVY ☐ CT ☒ OTHER

• TAT starts 8 a.m. following day if samples received after 5 p.m.

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 5 Workdays E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=Hcl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: White with report Yellow to folder Pink to submitter

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90807
(562) 989-4045 • FAX (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#: _____
Logged By: _____ Date: _____ Time: _____

Method of Transport: Walk-in ☑ Courier ☐ UPS ☐ FED. EXP. ☐ ATL ☐

Sample Condition Upon Receipt:
1. CHILLED Y☐ N☐ 4. SEALED Y☐ N☑
2. HEADSPACE (VOA) Y☐ N☐ 5. # OF SPLS MATCH COC Y☑ N☐
3. CONTAINER INTACT Y☑ N☐ 6. PRESERVED Y☐ N☑

Client: GEOCON ENVIRONMENTAL - SAN DIEGO
Attn: GREG ADAMS
Address: 6970 Flanders Drive
City San Diego State CA Zip Code 92121
TEL: (858) 558-6100
FAX: (858) 558-8437

Project Name: ROUTE 405 - EA4 NH4 #01
Project #: 9180-06-41
Sampler: (Printed Name) GCA (Signature)

Relinquished by: (Signature and Printed Name) GCA Date: 4/26/02 Time:
Received by: (Signature and Printed Name) Date: 4/26/02 Time: 2:14
Relinquished by: (Signature and Printed Name) Date: Time:
Received by: (Signature and Printed Name) Date: Time:
Relinquished by: (Signature and Printed Name) Date: Time:
Received by: (Signature and Printed Name) Date: Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: GCA (Print Name) 4/26/02 (Date) (Signature)

Send Report To: Attn: Co: Client Address City State Zip

Bill To: Attn: Co: Client Address City State Zip

Special Instructions/Comments: See Page 1

Unless otherwise requested, all samples will be disposed 45 days after receipt.

Sample Archive/Disposal:
☐ Laboratory Standard
☐ Other
☐ Return To:
* $10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D.	Date	Time	8081 / 8082 (Pesticides/PCB-GC)	8260 (Volatiles-GC/MS)	625 / 8270 (BNA-GC/MS)	Metals-Total (CAC-6010 / 7000)	8015M TPHG/BTEX (COMBINATION)	8015M TPHD (Diesel-GC)	TOTAL LEAD 6010	SOLID (SOIL)	SLUDGE	OIL • SOLVENT • LIQUID	WATER • WASTEWATER	DRINKING WATER	AIR	WIPE • FILTER	OTHER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	0012	B4-0.3	4/26	12:51							X								X	D	1	J G		
	0013	B4-0.6		12:56																				
	0014	B5-S		12:59																				
	0015	B5-0.3		1:01																				
	0016	B5-0.6		1:05																				
	0017	B6-S		1:00																				
	0018	B6-0.3		1:01																				
	0019	B6-0.6		1:02																				
	0020	B7-S		1:05																				
	0021	B7-0.3		1:06																				

QA/QC: RTNE ☐ RWQCB ☐ WIP ☐ NAVY ☐ CT ☒ OTHER

• TAT starts 8 a.m. following day if samples received after 5 p.m.

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 5 DAYS 3 Workdays E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=Hcl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: White with report Yellow to folder Pink to submitter

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Signal Hill, CA 90807
(562) 989-4045 • FAX (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#: _____

Logged By: _____ Date: _____ Time: _____

Method of Transport: Walk-in ☑ Courier ☐ UPS ☐ FED. EXP. ☐ ATL ☐

Sample Condition Upon Receipt:
1. CHILLED Y☐ N☑ 4. SEALED Y☐ N☐
2. HEADSPACE (VOA) Y☐ N☐ 5. # OF SPLS MATCH COC Y☑ N☐
3. CONTAINER INTACT Y☑ N☐ 6. PRESERVED Y☐ N☑

Client: GEOCON ENVIRONMENTAL - SAN DIEGO
Address: 6970 Flanders Drive
TEL: (858) 558-6100
Attn: GREG ADAMS
City San Diego State CA Zip Code 92121
FAX: (858) 558-8437

Project Name: ROUTE 405 - EA4N4601 Project #: 9100-06-41
Sampler: (Printed Name) GCA (Signature)

Relinquished by: (Signature and Printed Name) GCA Date: 4/26/02 Time: Received by: (Signature and Printed Name) Date: 4/26/02 Time: 2:15 pm
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: GCA Print Name 4/26/02 Date
Signature

Send Report To:
Attn: _____
Co: Client
Address _____
City _____ State _____ Zip _____

Bill To:
Attn: _____
Co: Client
Address _____
City _____ State _____ Zip _____

Special Instructions/Comments: See Page 1

Unless otherwise requested, all samples will be disposed 45 days after receipt.

Sample Archive/Disposal:
☐ Laboratory Standard
☐ Other _____
☐ Return To: _____
* $10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.

Circle or Add Analysis(es) Requested: 8081 / 8082 (Pesticides/PCB-GC) · 8260 (Volatiles-GC/MS) · 625 / 8270 (BNA-GC/MS) · Metals-Total (CAC-6010 / 7000) · 8015M TPHG/BTEX (COMBINATION) · 8015M TPH/D (Diesel-GC) · TOTAL LEAD

CIRCLE APPROPRIATE MATRIX: SOLID • SOIL • SLUDGE · OIL • SOLVENT • LIQUID · WATER • WASTEWATER · DRINKING WATER · AIR · WIPE • FILTER · OTHER

ITEM	LAB USE ONLY: Batch # / Lab No.	Sample Description: Sample I.D.	Date	Time	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	-021	B7-0.6	4/26	1:08					
	-022	B8-S		1:11					
	-023	B8-0.3		1:12					
	-024	B9-S		1:11					
	-025	B9-0.3		1:14					
	-026	B9-0.6		1:16					
	-027	B10-S		1:22					
	-028	B10-0.3		1:24					
	-029	B10-0.6		1:25					
	-030	B11-S		1:24					

Q A / Q C: RTNE ☐ RWQCB ☐ WIP ☐ NAVY ☐ CT ☑ OTHER ☐

• TAT starts 8 a.m. following day if samples received after 5 p.m.

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= ~~Urgent 3 Workdays~~ 5 DAYS E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=Hcl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: White with report Yellow to folder Pink to submitter

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90807
(562) 989-4045 • FAX (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#: _____

Logged By: _____ Date: _____ Time: _____

Method of Transport: Walk-in ☑ Courier ☐ UPS ☐ FED. EXP. ☐ ATL ☐

Sample Condition Upon Receipt
1. CHILLED Y☐ N☑ 4. SEALED Y☐ N☑
2. HEADSPACE (VOA) Y☐ N☐ 5. # OF SPLS MATCH COC Y☑ N☐
3. CONTAINER INTACT Y☑ N☐ 6. PRESERVED Y☐ N☑

Client: GEOCON ENVIRONMENTAL - SAN DIEGO
Address: 6970 Flanders Drive
TEL: (858) 558-6100
Attn: GREG ADAMS
City San Diego State CA Zip Code 92121
FAX: (858) 558-8437

Project Name: ROUTE 405-EB 4N4601 Project #: 9100-06-41 Sampler: (Printed Name) GCA (Signature)

Relinquished by: (Signature and Printed Name) GCA Date: 4/26/02 Time: Received by: (Signature and Printed Name) Date: 4/26/02 Time: 1410

Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: GCA Print Name 4/26/02 Date _____ Signature

Send Report To:
Attn: _____
Co: Client
Address _____
City _____ State _____ Zip _____

Bill To:
Attn: _____
Co: Client
Address _____
City _____ State _____ Zip _____

Special Instructions/Comments: See Page 1

Unless otherwise requested, all samples will be disposed 45 days after receipt.

Sample Archive/Disposal:
☐ Laboratory Standard
☐ Other _____
☐ Return To: _____
* $10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.

Circle or Add Analysis(es) Requested: 8081 / 8082 (Pesticides/PCB-GC) | 8260 (Volatiles-GC/MS) | 625 / 8270 (BNA-GC/MS) | Metals-Total (CAC-6010 / 7000) | 8015M TPHG/BTEX (COMBINATION) | 8015M TPH/D (Diesel-GC) | TOTAL LEAD 6010

CIRCLE APPROPRIATE MATRIX: SOLID (SOIL) SLUDGE | OIL • SOLVENT • LIQUID | WATER • WASTEWATER | DRINKING WATER | AIR | WIPE • FILTER | OTHER

PRESERVATION

Q A / Q C: RTNE ☐ RWQCB ☐ WIP ☐ NAVY ☐ CT ☑ OTHER _____

ITEM	LAB USE ONLY: Batch # / Lab No.	Sample Description: Sample I.D.	Date	Time	TAT	Container(s): #	Type	REMARKS
	-031	B11-0.3	4/26	1:25	D	1	JG	
	-032	B11-0.6		1:30				
	-033	B12-S		1:34				
	-034	B12-0.3		1:35				
	-035	B12-0.6		1:38				
	-036	B13-S		1:36				
	-037	B13-0.3		1:38				
	-038	B13-0.6		1:42				

• TAT starts 8 a.m. following day if samples received after 5 p.m.

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent ~~3 Workdays~~ 5 DAYS E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=Hcl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: White with report Yellow to folder Pink to submitter

Advanced Technology Laboratories

Print Date: *02-May-02*

CLIENT:	Geocon Environmental	**Test No:**	EPA 6010B
Lab Order:	056590	**Units:**	mg/Kg
Project:	RTE 405-EA4N4601 - 9100-06-41	**Analyst:**	RQ

Sample ID	Client Sample ID	Matrix	Collection Date	QC Batch	Lead	PQL	Qual	DF	Analysis Date
056590-001A	B1-S	Soil	4/26/2002	8586	15	5		1	5/1/2002
056590-002A	B1-0.3	Soil	4/26/2002	8586	5.6	5		1	5/1/2002
056590-003A	B1-0.6	Soil	4/26/2002	8586	ND	5		1	5/1/2002
056590-004A	B2-S	Soil	4/26/2002	8586	100	5		1	5/1/2002
056590-005A	B2-0.3	Soil	4/26/2002	8586	48	5		1	5/1/2002
056590-006A	B2-0.6	Soil	4/26/2002	8586	18	5		1	5/1/2002
056590-007A	B3-S	Soil	4/26/2002	8586	82	5		1	5/1/2002
056590-008A	B3-0.3	Soil	4/26/2002	8586	6.8	5		1	5/1/2002
056590-009A	B3-0.6	Soil	4/26/2002	8586	25	5		1	5/1/2002
056590-010A	B4-S	Soil	4/26/2002	8586	110	5		1	5/1/2002
056590-011A	B4-0.3	Soil	4/26/2002	8586	6.2	5		1	5/1/2002
056590-012A	B4-0.6	Soil	4/26/2002	8586	9.1	5		1	5/1/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials:

1

Advanced Technology Laboratories

Print Date: *02-May-02*

CLIENT:	Geocon Environmental	**Test No:**	EPA 6010B
Lab Order:	056590	**Units:**	mg/Kg
Project:	RTE 405-EA4N4601 - 9100-06-41	**Analyst:**	RQ

Sample ID	Client Sample ID	Matrix	Collection Date	QC Batch	Lead	PQL	Qual	DF	Analysis Date
056590-013A	B5-S	Soil	4/26/2002	8586	34	5		1	5/1/2002
056590-014A	B5-0.3	Soil	4/26/2002	8586	13	5		1	5/1/2002
056590-015A	B5-0.6	Soil	4/26/2002	8586	12	5		1	5/1/2002
056590-016A	B6-S	Soil	4/26/2002	8586	130	5		1	5/1/2002
056590-017A	B6-0.3	Soil	4/26/2002	8586	61	5		1	5/1/2002
056590-018A	B6-0.6	Soil	4/26/2002	8586	10	5		1	5/1/2002
056590-019A	B7-S	Soil	4/26/2002	8586	61	5		1	5/1/2002
056590-020A	B7-0.3	Soil	4/26/2002	8586	5.8	5		1	5/1/2002
056590-021A	B7-0.6	Soil	4/26/2002	8587	6.5	5		1	5/1/2002
056590-022A	B8-S	Soil	4/26/2002	8587	79	5		1	5/1/2002
056590-023A	B8-0.3	Soil	4/26/2002	8587	55	5		1	5/1/2002
056590-024A	B9-S	Soil	4/26/2002	8587	20	5		1	5/1/2002

Qualifiers:

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E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: _____

2

Advanced Technology Laboratories

Print Date: *02-May-02*

CLIENT:	Geocon Environmental	**Test No:**	EPA 6010B
Lab Order:	056590	**Units:**	mg/Kg
Project:	RTE 405-EA4N4601 - 9100-06-41	**Analyst:**	RQ

Sample ID	Client Sample ID	Matrix	Collection Date	QC Batch	Lead	PQL	Qual	DF	Analysis Date
056590-025A	B9-0.3	Soil	4/26/2002	8587	17	5		1	5/1/2002
056590-026A	B9-0.6	Soil	4/26/2002	8587	ND	5		1	5/1/2002
056590-027A	B10-S	Soil	4/26/2002	8587	210	5		1	5/1/2002
056590-028A	B10-0.3	Soil	4/26/2002	8587	31	5		1	5/1/2002
056590-029A	B10-0.6	Soil	4/26/2002	8587	ND	5		1	5/1/2002
056590-030A	B11-S	Soil	4/26/2002	8587	50	5		1	5/1/2002
056590-031A	B11-0.3	Soil	4/26/2002	8587	68	5		1	5/1/2002
056590-032A	B11-0.6	Soil	4/26/2002	8587	12	5		1	5/1/2002
056590-033A	B12-S	Soil	4/26/2002	8587	89	5		1	5/1/2002
056590-034A	B12-0.3	Soil	4/26/2002	8587	20	5		1	5/1/2002
056590-035A	B12-0.6	Soil	4/26/2002	8587	ND	5		1	5/1/2002
056590-036A	B13-S	Soil	4/26/2002	8587	240	5		1	5/1/2002

Qualifiers:

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- DO - Surrogate Diluted Out
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- H - Samples exceeding analytical holding time
- E - Value above quantitation range
- M - Not Monitored. Highly Reactive

Initials: _____

3

Advanced Technology Laboratories

Print Date: *02-May-02*

CLIENT:	Geocon Environmental	**Test No:**	EPA 6010B
Lab Order:	056590	**Units:**	mg/Kg
Project:	RTE 405-EA4N4601 - 9100-06-41	**Analyst:**	RQ

Sample ID	Client Sample ID	Matrix	Collection Date	QC Batch	Lead	PQL	Qual	DF	Analysis Date
056590-037A	B13-0.3	Soil	4/26/2002	8587	160	5		1	5/1/2002
056590-038A	B13-0.6	Soil	4/26/2002	8587	11	5		1	5/1/2002

Qualifiers:

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E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials:

4

Advanced Technology Laboratories

Print Date: *02-May-02*

CLIENT:	Geocon Environmental	**Test No:**	EPA 9045C
Lab Order:	056590	**Units:**	pH Units
Project:	RTE 405-EA4N4601 - 9100-06-41	**Analyst:**	JT

Sample ID	Client Sample ID	Matrix	Collection Date	QC Batch	pH	PQL	Qual	DF	Analysis Date
056590-001A	B1-S	Soil	4/26/2002	R17472	8.69	0.1		1	4/30/2002
056590-010A	B4-S	Soil	4/26/2002	R17472	8.15	0.1		1	4/30/2002
056590-020A	B7-0.3	Soil	4/26/2002	R17472	8.60	0.1		1	4/30/2002
056590-030A	B11-S	Soil	4/26/2002	R17472	8.40	0.1		1	4/30/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: _____

1

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *02-May-02*

CLIENT: Geocon Environmental
Work Order: 056590
Project: RTE 405-EA4N4601 - 9100-06-41

QC SUMMARY REPORT
Method Blank

Sample ID **MB-8586A** Batch ID: **8586** Test Name **LEAD BY ICP** Units **mg/Kg** Analysis Date: **5/1/2002** Prep Date: **4/30/200**
MBLK SeqNo: **271332**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0		0				0			

Sample ID **MB-8586B** Batch ID: **8586** Test Name **LEAD BY ICP** Units **mg/Kg** Analysis Date: **5/1/2002** Prep Date: **4/30/200**
MBLK SeqNo: **271333**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0		0				0			

Sample ID **MB-8587A** Batch ID: **8587** Test Name **LEAD BY ICP** Units **mg/Kg** Analysis Date: **5/1/2002** Prep Date: **4/30/200**
MBLK SeqNo: **271360**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0		0				0			

Sample ID **MB-8587B** Batch ID: **8587** Test Name **LEAD BY ICP** Units **mg/Kg** Analysis Date: **5/1/2002** Prep Date: **4/30/200**
MBLK SeqNo: **271361**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0		0				0			J

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
M - Not Monitored. Highly Reactive
S - Spike/Surrogate outside of limits due to matrix interference
DO - Surrogate Diluted Out

Initials: _____

All calculations are based on raw values.

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *02-May-02*

CLIENT: Geocon Environmental
Work Order: 056590
Project: RTE 405-EA4N4601 - 9100-06-41

QC SUMMARY REPORT
Sample Duplicate

Sample ID **056590-010ADU** Batch ID: **8586** Test Name **LEAD BY ICP** Units **mg/Kg** Analysis Date: **5/1/2002** Prep Date: **4/30/200**
DUP SeqNo: **271316**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	64	5.0	0	0	0	0	0	110	54	30	R

Sample ID **056590-020ADU** Batch ID: **8586** Test Name **LEAD BY ICP** Units **mg/Kg** Analysis Date: **5/1/2002** Prep Date: **4/30/200**
DUP SeqNo: **271328**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5	5.0	0	0	0	0	0	5.8	22	30	J

Sample ID **056590-030ADU** Batch ID: **8587** Test Name **LEAD BY ICP** Units **mg/Kg** Analysis Date: **5/1/2002** Prep Date: **4/30/200**
DUP SeqNo: **271344**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	57	5.0	0	0	0	0	0	50	13	30	

Sample ID **056591-002ADU** Batch ID: **8587** Test Name **LEAD BY ICP** Units **mg/Kg** Analysis Date: **5/1/2002** Prep Date: **4/30/200**
DUP SeqNo: **271356**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3	5.0	0	0	0	0	0	2.5	13	30	J

Sample ID **056591-030ADU** Batch ID: **R17472** Test Name **pH** Units **pH Un** Analysis Date: **4/30/2002** Prep Date: **4/30/200**
DUP SeqNo: **270433**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	8	0.10	0	0	0	0	0	8	1	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
M - Not Monitored. Highly Reactive
S - Spike/Surrogate outside of limits due to matrix interference
DO - Surrogate Diluted Out

Initials: [illegible]

2

All calculations are based on raw values.

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *02-May-02*

CLIENT: Geocon Environmental
Work Order: 056590
Project: RTE 405-EA4N4601 - 9100-06-41

QC SUMMARY REPORT
Sample Matrix Spike

Sample ID **056590-010AMS** Batch ID: **8586** Test Name **LEAD BY ICP** Units **mg/Kg** Analysis Date: **5/1/2002** Prep Date: **4/30/200**
MS SeqNo: **271317**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	230	5.0	250	110	48	47	128	0			

Sample ID **056590-020AMS** Batch ID: **8586** Test Name **LEAD BY ICP** Units **mg/Kg** Analysis Date: **5/1/2002** Prep Date: **4/30/200**
MS SeqNo: **271329**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	160	5.0	250	5.8	63	47	128	0			

Sample ID **056590-030AMS** Batch ID: **8587** Test Name **LEAD BY ICP** Units **mg/Kg** Analysis Date: **5/1/2002** Prep Date: **4/30/200**
MS SeqNo: **271345**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	260	5.0	250	50	84	47	128	0			

Sample ID **056591-002AMS** Batch ID: **8587** Test Name **LEAD BY ICP** Units **mg/Kg** Analysis Date: **5/1/2002** Prep Date: **4/30/200**
MS SeqNo: **271357**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	210	5.0	250	2.5	84	47	128	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
M - Not Monitored. Highly Reactive
S - Spike/Surrogate outside of limits due to matrix interference
DO - Surrogate Diluted Out

Initials: _____

3

All calculations are based on raw values.

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *02-May-02*

CLIENT: Geocon Environmental
Work Order: 056590
Project: RTE 405-EA4N4601 - 9100-06-41

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID **LCS-8586** Batch ID: **8586** Test Name **LEAD BY ICP** Units **mg/Kg** Analysis Date: **5/1/2002** Prep Date: **4/30/200**
LCS SeqNo: **271331**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	240	5.0	250	0	94	80	120	0			

Sample ID **LCS-8587** Batch ID: **8587** Test Name **LEAD BY ICP** Units **mg/Kg** Analysis Date: **5/1/2002** Prep Date: **4/30/200**
LCS SeqNo: **271359**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	250	5.0	250	0.26	100	80	120	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
M - Not Monitored. Highly Reactive
S - Spike/Surrogate outside of limits due to matrix interference
DO - Surrogate Diluted Out

Initials: _____

4

All calculations are based on raw values.

Advanced Technology Laboratories

Print Date: *06-May-02*

CLIENT:	Geocon Environmental	**Test No:**	WET/ EPA 7420
Lab Order:	056590	**Units:**	mg/L
Project:	RTE 405-EA4N4601 - 9100-06-41	**Analyst:**	JT

Sample ID	Client Sample ID	Matrix	Collection Date	QC Batch	Lead	PQL	Qual	DF	Analysis Date
056590-004A	B2-S	Solid/ STLC Extract	4/26/2002	8656	3.8	0.2		1	5/6/2002
056590-007A	B3-S	Solid/ STLC Extract	4/26/2002	8656	5.7	0.2		1	5/6/2002
056590-010A	B4-S	Solid/ STLC Extract	4/26/2002	8656	4.2	0.2		1	5/6/2002
056590-016A	B6-S	Solid/ STLC Extract	4/26/2002	8656	10	0.2		1	5/6/2002
056590-017A	B6-0.3	Solid/ STLC Extract	4/26/2002	8656	5.5	0.2		1	5/6/2002
056590-019A	B7-S	Solid/ STLC Extract	4/26/2002	8656	2.4	0.2		1	5/6/2002
056590-022A	B8-S	Solid/ STLC Extract	4/26/2002	8656	3.4	0.2		1	5/6/2002
056590-023A	B8-0.3	Solid/ STLC Extract	4/26/2002	8656	2.0	0.2		1	5/6/2002
056590-027A	B10-S	Solid/ STLC Extract	4/26/2002	8656	10	0.2		1	5/6/2002
056590-030A	B11-S	Solid/ STLC Extract	4/26/2002	8656	3.9	0.2		1	5/6/2002
056590-031A	B11-0.3	Solid/ STLC Extract	4/26/2002	8656	5.1	0.2		1	5/6/2002
056590-033A	B12-S	Solid/ STLC Extract	4/26/2002	8656	4.7	0.2		1	5/6/2002

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- DO - Surrogate Diluted Out
- S - Spike/Surrogate outside of limits due to matrix interference.
- H - Samples exceeding analytical holding time
- E - Value above quantitation range
- M - Not Monitored. Highly Reactive

Initials: [illegible]

1

Advanced Technology Laboratories

Print Date: *06-May-02*

CLIENT:	Geocon Environmental	**Test No:**	WET/ EPA 7420
Lab Order:	056590	**Units:**	mg/L
Project:	RTE 405-EA4N4601 - 9100-06-41	**Analyst:**	JT

Sample ID	Client Sample ID	Matrix	Collection Date	QC Batch	Lead	PQL	Qual	DF	Analysis Date
056590-036A	B13-S	Solid/ STLC Extract	4/26/2002	8656	21	0.4		2	5/6/2002
056590-037A	B13-0.3	Solid/ STLC Extract	4/26/2002	8656	9.7	0.2		1	5/6/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: _____

2

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3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *06-May-02*

CLIENT: Geocon Environmental
Work Order: 056590
Project: RTE 405-EA4N4601 - 9100-06-41

QC SUMMARY REPORT
Method Blank

Sample ID **MB-8656A** Batch ID: **8656** Test Name **LEAD BY ATOMIC ABSORPTION** Units **mg/L** Analysis Date: **5/6/2002** Prep Date: **5/4/2002**
MBLK SeqNo: **272838**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20		0				0			

Sample ID **MB-8656B** Batch ID: **8656** Test Name **LEAD BY ATOMIC ABSORPTION** Units **mg/L** Analysis Date: **5/6/2002** Prep Date: **5/4/2002**
MBLK SeqNo: **272851**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20		0				0			

Sample ID **MB-8656** Batch ID: **8656** Test Name **LEAD BY ATOMIC ABSORPTION** Units **mg/L** Analysis Date: **5/6/2002** Prep Date: **5/6/2002**
MBLK SeqNo: **272866**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20		0				0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
M - Not Monitored. Highly Reactive
S - Spike/Surrogate outside of limits due to matrix interference
DO - Surrogate Diluted Out

Initials: (D)

1

All calculations are based on raw values.

Advanced Technology Laboratories
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Advanced Technology Laboratories

Date: *06-May-02*

CLIENT: Geocon Environmental
Work Order: 056590
Project: RTE 405-EA4N4601 - 9100-06-41

QC SUMMARY REPORT
Sample Duplicate

Sample ID **056590-027ADU** Batch ID: **8656** Test Name **LEAD BY ATOMIC ABSORPTION** Units **mg/L** Analysis Date: **5/6/2002** Prep Date: **5/4/2002**
DUP SeqNo: **272849**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	9.3	0.20	0	0	0	0	0	10	7	30	

Sample ID **056655-006ADU** Batch ID: **8656** Test Name **LEAD BY ATOMIC ABSORPTION** Units **mg/L** Analysis Date: **5/6/2002** Prep Date: **5/4/2002**
DUP SeqNo: **272862**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.1	0.20	0	0	0	0	0	8.7	20	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
M - Not Monitored. Highly Reactive
S - Spike/Surrogate outside of limits due to matrix interference
DO - Surrogate Diluted Out

Initials: _____

2

All calculations are based on raw values.

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Advanced Technology Laboratories

Date: *06-May-02*

CLIENT: Geocon Environmental
Work Order: 056590
Project: RTE 405-EA4N4601 - 9100-06-41

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID **056590-027AMS** Batch ID: **8656** Test Name **LEAD BY ATOMIC ABSORPTION** Units **mg/L** Analysis Date: **5/6/2002** Prep Date: **5/6/2002**
MS SeqNo: **272850**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	15	0.20	5	10	102	80	120	0			

Sample ID **056655-006AMS** Batch ID: **8656** Test Name **LEAD BY ATOMIC ABSORPTION** Units **mg/L** Analysis Date: **5/6/2002** Prep Date: **5/6/2002**
MS SeqNo: **272863**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	13	0.20	5	8.7	83	80	120	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
M - Not Monitored. Highly Reactive
S - Spike/Surrogate outside of limits due to matrix interference
DO - Surrogate Diluted Out

Initials: (f)

3

All calculations are based on raw values.

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Advanced Technology Laboratories

Date: *06-May-02*

CLIENT: Geocon Environmental
Work Order: 056590
Project: RTE 405-EA4N4601 - 9100-06-41

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID **LCS-8656** Batch ID: **8656** Test Name **LEAD BY ATOMIC ABSORPTION** Units **mg/L** Analysis Date: **5/6/2002** Prep Date: **5/6/2002**

LCS SeqNo: **272865**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.5	0.20	7.5	0	100	80	120	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
M - Not Monitored. Highly Reactive
S - Spike/Surrogate outside of limits due to matrix interference
DO - Surrogate Diluted Out

Initials: _____

4

All calculations are based on raw values.

Advanced Technology Laboratories

Print Date: *5/8/2002*

CLIENT:	Geocon Environmental	**Client Sample ID:**	B10-S
Lab Order:	056590		
Project:	RTE 405-EA4N4601 - 9100-06-41	**Collection Date:**	4/26/2002
Lab ID:	056590-027A	**Matrix:**	Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS			**EPA 6010B**			
RunID: **ICP2_020507C** BatchID: **8679**				PrepDate: **5/6/2002**		Analyst: **RQ**
Antimony	0.50	0.25		mg/Kg	1.0	5/7/2002
Arsenic	16	0.25		mg/Kg	1.0	5/7/2002
Barium	180	0.15		mg/Kg	1.0	5/7/2002
Beryllium	ND	0.15		mg/Kg	1.0	5/7/2002
Cadmium	ND	0.15		mg/Kg	1.0	5/7/2002
Chromium	22	0.15		mg/Kg	1.0	5/7/2002
Cobalt	8.5	0.15		mg/Kg	1.0	5/7/2002
Copper	33	0.15		mg/Kg	1.0	5/7/2002
Lead	270	0.25		mg/Kg	1.0	5/7/2002
Molybdenum	1.0	0.25		mg/Kg	1.0	5/7/2002
Nickel	17	0.15		mg/Kg	1.0	5/7/2002
Selenium	ND	0.25		mg/Kg	1.0	5/7/2002
Silver	ND	0.15		mg/Kg	1.0	5/7/2002
Thallium	0.38	0.25		mg/Kg	1.0	5/7/2002
Vanadium	32	0.15		mg/Kg	1.0	5/7/2002
Zinc	150	0.50		mg/Kg	1.0	5/7/2002
MERCURY BY COLD VAPOR TECHNIQUE			**EPA 7471A**			
RunID: **AA1_020507B** BatchID: **8682**				PrepDate: **5/6/2002**		Analyst: **JT**
Mercury	0.10	0.10		mg/Kg	1.0	5/7/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: _____

Advanced Technology Laboratories

Print Date: *5/8/2002*

CLIENT:	Geocon Environmental	**Client Sample ID:**	B13-S
Lab Order:	056590		
Project:	RTE 405-EA4N4601 - 9100-06-41	**Collection Date:**	4/26/2002
Lab ID:	056590-036A	**Matrix:**	Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS			**EPA 6010B**			
RunID: **ICP2_020507C** BatchID: **8679**				PrepDate: **5/6/2002**		Analyst: **RQ**
Antimony	0.50	0.25		mg/Kg	1.0	5/7/2002
Arsenic	15	0.25		mg/Kg	1.0	5/7/2002
Barium	160	0.15		mg/Kg	1.0	5/7/2002
Beryllium	ND	0.15		mg/Kg	1.0	5/7/2002
Cadmium	ND	0.15		mg/Kg	1.0	5/7/2002
Chromium	23	0.15		mg/Kg	1.0	5/7/2002
Cobalt	9.5	0.15		mg/Kg	1.0	5/7/2002
Copper	38	0.15		mg/Kg	1.0	5/7/2002
Lead	340	0.25		mg/Kg	1.0	5/7/2002
Molybdenum	1.0	0.25		mg/Kg	1.0	5/7/2002
Nickel	18	0.15		mg/Kg	1.0	5/7/2002
Selenium	ND	0.25		mg/Kg	1.0	5/7/2002
Silver	0.20	0.15		mg/Kg	1.0	5/7/2002
Thallium	0.50	0.25		mg/Kg	1.0	5/7/2002
Vanadium	37	0.15		mg/Kg	1.0	5/7/2002
Zinc	150	0.50		mg/Kg	1.0	5/7/2002
MERCURY BY COLD VAPOR TECHNIQUE			**EPA 7471A**			
RunID: **AA1_020507B** BatchID: **8682**				PrepDate: **5/6/2002**		Analyst: **JT**
Mercury	ND	0.10		mg/Kg	1.0	5/7/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: _____ 2

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *08-May-02*

CLIENT: Geocon Environmental
Work Order: 056590
Project: RTE 405-EA4N4601 - 9100-06-41

QC SUMMARY REPORT
Method Blank

Sample ID **MB-8679** Batch ID: **8679** Test Name **ICP METALS** Units **mg/Kg** Analysis Date: **5/7/2002** Prep Date: **5/6/2002**
MBLK SeqNo: **273142**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	0.25		0				0			
Arsenic	ND	0.25		0				0			
Barium	ND	0.15		0				0			
Beryllium	ND	0.15		0				0			
Cadmium	ND	0.15		0				0			
Chromium	ND	0.15		0				0			
Cobalt	ND	0.15		0				0			
Copper	ND	0.15		0				0			
Lead	ND	0.25		0				0			
Molybdenum	ND	0.25		0				0			
Nickel	ND	0.15		0				0			
Selenium	ND	0.25		0				0			
Silver	ND	0.15		0				0			
Thallium	ND	0.25		0				0			
Vanadium	ND	0.15		0				0			
Zinc	ND	0.50		0				0			

Sample ID **MB-8682** Batch ID: **8682** Test Name **MERCURY BY COLD VAPOR TECHNIQUE** Units **mg/Kg** Analysis Date: **5/7/2002** Prep Date: **5/6/2002**
MBLK SeqNo: **273221**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10		0				0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
M - Not Monitored. Highly Reactive
S - Spike/Surrogate outside of limits due to matrix interference
DO - Surrogate Diluted Out

Initials: *[illegible]*

All calculations are based on raw values.

Advanced Technology Laboratories
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Advanced Technology Laboratories

Date: *08-May-02*

CLIENT: Geocon Environmental
Work Order: 056590
Project: RTE 405-EA4N4601 - 9100-06-41

QC SUMMARY REPORT
Sample Duplicate

Sample ID **056591-030ADU** Batch ID: **8679** Test Name **ICP METALS** Units **mg/Kg** Analysis Date: **5/7/2002** Prep Date: **5/6/2002**
DUP SeqNo: **273139**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.5	0.25	0	0	0	0	0	0.5	0	30	
Arsenic	16	0.25	0	0	0	0	0	16	3	30	
Barium	110	0.15	0	0	0	0	0	120	6	30	
Beryllium	ND	0.15	0	0	0	0	0	0	0	30	
Cadmium	ND	0.15	0	0	0	0	0	0	0	30	
Chromium	20	0.15	0	0	0	0	0	22	10	30	
Cobalt	10	0.15	0	0	0	0	0	10	5	30	
Copper	30	0.15	0	0	0	0	0	30	0	30	
Lead	75	0.25	0	0	0	0	0	98	26	30	
Molybdenum	2	0.25	0	0	0	0	0	2	0	30	
Nickel	16	0.15	0	0	0	0	0	18	14	30	
Selenium	ND	0.25	0	0	0	0	0	0	0	30	
Silver	ND	0.15	0	0	0	0	0	0	0	30	
Thallium	0.5	0.25	0	0	0	0	0	0.5	0	30	
Vanadium	40	0.15	0	0	0	0	0	42	5	30	
Zinc	110	0.50	0	0	0	0	0	120	8	30	

Sample ID **056591-030ADU** Batch ID: **8682** Test Name **MERCURY BY COLD VAPOR TECHNIQUE** Units **mg/Kg** Analysis Date: **5/7/2002** Prep Date: **5/6/2002**
DUP SeqNo: **273213**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10	0	0	0	0	0	0.048	0	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
M - Not Monitored. Highly Reactive
S - Spike/Surrogate outside of limits due to matrix interference
DO - Surrogate Diluted Out

Initials: _____

2

All calculations are based on raw values.

Advanced Technology Laboratories
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Advanced Technology Laboratories

Date: *08-May-02*

CLIENT: Geocon Environmental
Work Order: 056590
Project: RTE 405-EA4N4601 - 9100-06-41

QC SUMMARY REPORT
Sample Matrix Spike

Sample ID **056591-030AMS** Batch ID: **8679** Test Name **ICP METALS** Units **mg/Kg** Analysis Date: **5/7/2002** Prep Date: **5/6/2002**

MS SeqNo: **273140**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	82	0.25	125	0.5	66	32	115	0			
Arsenic	130	0.25	125	16	92	59	111	0			
Barium	250	0.15	125	120	104	34	151	0			
Beryllium	120	0.15	125	0	92	56	112	0			
Cadmium	110	0.15	125	0	86	52	120	0			
Chromium	140	0.15	125	22	92	56	118	0			
Cobalt	130	0.15	125	10	93	58	117	0			
Copper	170	0.15	125	30	110	58	134	0			
Lead	190	0.25	125	98	77	47	128	0			
Molybdenum	120	0.25	125	2	94	56	115	0			
Nickel	140	0.15	125	18	94	52	120	0			
Selenium	110	0.25	125	0	88	46	108	0			
Silver	120	0.15	125	0	100	74	117	0			
Thallium	120	0.25	125	0.5	95	62	117	0			
Vanadium	160	0.15	125	42	96	55	122	0			
Zinc	210	0.50	125	120	75	43	134	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
M - Not Monitored. Highly Reactive
S - Spike/Surrogate outside of limits due to matrix interference
DO - Surrogate Diluted Out

Initials: ____

3

All calculations are based on raw values.

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Geocon Environmental
Work Order: 056590
Project: RTE 405-EA4N4601 - 9100-06-41

QC SUMMARY REPORT
Sample Matrix Spike Duplicate

Sample ID **056591-030AMS** Batch ID: **8679** Test Name **ICP METALS** Units **mg/Kg** Analysis Date: **5/7/2002** Prep Date: **5/6/2002**

MSD SeqNo: **273141**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	68	0.25	125	0.5	54	32	115	82	19	20	
Arsenic	120	0.25	125	16	83	59	111	130	9	20	
Barium	230	0.15	125	120	90	34	151	250	8	20	
Beryllium	100	0.15	125	0	82	56	112	120	14	20	
Cadmium	95	0.15	125	0	76	52	120	110	13	20	
Chromium	130	0.15	125	22	83	56	118	140	6	20	
Cobalt	110	0.15	125	10	82	58	117	130	14	20	
Copper	150	0.15	125	30	96	58	134	170	11	20	
Lead	200	0.25	125	98	81	47	128	190	3	20	
Molybdenum	100	0.25	125	2	82	56	115	120	17	20	
Nickel	120	0.15	125	18	82	52	120	140	12	20	
Selenium	98	0.25	125	0	78	46	108	110	12	20	
Silver	110	0.15	125	0	88	74	117	120	13	20	
Thallium	110	0.25	125	0.5	84	62	117	120	8	20	
Vanadium	150	0.15	125	42	86	55	122	160	8	20	
Zinc	210	0.50	125	120	72	43	134	210	2	20	

Sample ID **056591-030AMS** Batch ID: **8682** Test Name **MERCURY BY COLD VAPOR TECHNIQUE** Units **mg/Kg** Analysis Date: **5/7/2002** Prep Date: **5/6/2002**

MS SeqNo: **273214**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1	0.10	0.83	0.048	115	62	146	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
M - Not Monitored. HIghly Reactive
S - Spike/Surrogate outside of limits due to matrix interference
DO - Surrogate Diluted Out

Initials: [illegible]

4

All calculations are based on raw values.

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Geocon Environmental
Work Order: 056590
Project: RTE 405-EA4N4601 - 9100-06-41

QC SUMMARY REPORT
Sample Matrix Spike Duplicate

Sample ID **056591-030AMS** Batch ID: **8682** Test Name **MERCURY BY COLD VAPOR TECHNIQUE** Units **mg/Kg** Analysis Date: **5/7/2002** Prep Date: **5/6/2002**

MSD SeqNo: **273215**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.76	0.10	0.83	0.048	86	62	146	1	28	33	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
M - Not Monitored. Highly Reactive
S - Spike/Surrogate outside of limits due to matrix interference
DO - Surrogate Diluted Out

Initials: [illegible]

5

All calculations are based on raw values.

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *08-May-02*

CLIENT: Geocon Environmental
Work Order: 056590
Project: RTE 405-EA4N4601 - 9100-06-41

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID **LCS-8679** Batch ID: **8679** Test Name **ICP METALS** Units **mg/Kg** Analysis Date: **5/7/2002** Prep Date: **5/6/2002**

LCS SeqNo: **273129**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	50	0.25	50	0	99	80	120	0			
Arsenic	50	0.25	50	0.063	101	80	120	0			
Barium	51	0.15	50	0	102	80	120	0			
Beryllium	51	0.15	50	0	102	80	120	0			
Cadmium	50	0.15	50	0	99	80	120	0			
Chromium	52	0.15	50	0	104	80	120	0			
Cobalt	51	0.15	50	0.003	102	80	120	0			
Copper	54	0.15	50	0	108	80	120	0			
Lead	52	0.25	50	0	105	80	120	0			
Molybdenum	52	0.25	50	0.0055	103	80	120	0			
Nickel	52	0.15	50	0.032	103	80	120	0			
Selenium	47	0.25	50	0	94	80	120	0			
Silver	56	0.15	50	0.024	112	80	120	0			
Thallium	51	0.25	50	0.15	102	80	120	0			
Vanadium	52	0.15	50	0	105	80	120	0			
Zinc	50	0.50	50	0	100	80	120	0			

Sample ID **LCS-8682** Batch ID: **8682** Test Name **MERCURY BY COLD VAPOR TECHNIQUE** Units **mg/Kg** Analysis Date: **5/7/2002** Prep Date: **5/6/2002**

LCS SeqNo: **273220**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.1	0.10	2.08	0	101	80	120	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
M - Not Monitored. Highly Reactive
S - Spike/Surrogate outside of limits due to matrix interference
DO - Surrogate Diluted Out

Initials: _____

6

All calculations are based on raw values.

Advanced Technology Laboratories

Print Date: *10-May-02*

CLIENT:	Geocon Environmental	**Test No:**	WET DI/ EPA 7
Lab Order:	056590	**Units:**	mg/L
Project:	RTE 405-EA4N4601 - 9100-06-41	**Analyst:**	NS

Sample ID	Client Sample ID	Matrix	Collection Date	QC Batch	Lead	PQL	Qual	DF	Analysis Date
056590-007A	B3-S	Solid/ STLC DI Extract	4/26/2002	8691	ND	0.2		1	5/10/2002
056590-016A	B6-S	Solid/ STLC DI Extract	4/26/2002	8691	ND	0.2		1	5/10/2002
056590-017A	B6-0.3	Solid/ STLC DI Extract	4/26/2002	8691	ND	0.2		1	5/10/2002
056590-027A	B10-S	Solid/ STLC DI Extract	4/26/2002	8691	ND	0.2		1	5/10/2002
056590-031A	B11-0.3	Solid/ STLC DI Extract	4/26/2002	8691	ND	0.2		1	5/10/2002
056590-036A	B13-S	Solid/ STLC DI Extract	4/26/2002	8691	ND	0.2		1	5/10/2002
056590-037A	B13-0.3	Solid/ STLC DI Extract	4/26/2002	8691	ND	0.2		1	5/10/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials:

1

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *10-May-02*

CLIENT: Geocon Environmental
Work Order: 056590
Project: RTE 405-EA4N4601 - 9100-06-41

QC SUMMARY REPORT
Method Blank

Sample ID **MB-8691** Batch ID: **8691** Test Name **LEAD BY ATOMIC ABSORPTION** Units **mg/L** Analysis Date: **5/10/2002** Prep Date: **5/10/200**
MBLK SeqNo: **274320**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20		0				0			

Sample ID **MB-8691A** Batch ID: **8691** Test Name **LEAD BY ATOMIC ABSORPTION** Units **mg/L** Analysis Date: **5/10/2002** Prep Date: **5/7/2002**
MBLK SeqNo: **274321**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20		0				0			

Sample ID **MB-8691B** Batch ID: **8691** Test Name **LEAD BY ATOMIC ABSORPTION** Units **mg/L** Analysis Date: **5/10/2002** Prep Date: **5/7/2002**
MBLK SeqNo: **274334**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20		0				0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
M - Not Monitored. Highly Reactive
S - Spike/Surrogate outside of limits due to matrix interference
DO - Surrogate Diluted Out

Initials: _____

1

All calculations are based on raw values.

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *10-May-02*

CLIENT: Geocon Environmental
Work Order: 056590
Project: RTE 405-EA4N4601 - 9100-06-41

QC SUMMARY REPORT
Sample Duplicate

Sample ID **056590-016ADU** Batch ID: **8691** Test Name **LEAD BY ATOMIC ABSORPTION** Units **mg/L** Analysis Date: **5/10/2002** Prep Date: **5/7/2002**
DUP SeqNo: **274332**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20	0	0	0	0	0	0	0	30	

Sample ID **056591-025ADU** Batch ID: **8691** Test Name **LEAD BY ATOMIC ABSORPTION** Units **mg/L** Analysis Date: **5/10/2002** Prep Date: **5/7/2002**
DUP SeqNo: **274341**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20	0	0	0	0	0	0	0	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
M - Not Monitored. Highly Reactive
S - Spike/Surrogate outside of limits due to matrix interference
DO - Surrogate Diluted Out

Initials: _____

2

All calculations are based on raw values.

Advanced Technology Laboratories

3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *10-May-02*

CLIENT: Geocon Environmental
Work Order: 056590
Project: RTE 405-EA4N4601 - 9100-06-41

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID **056590-016AMS** Batch ID: **8691** Test Name **LEAD BY ATOMIC ABSORPTION** Units **mg/L** Analysis Date: **5/10/2002** Prep Date: **5/10/200**

MS SeqNo: **274333**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.4	0.20	5	0	108	80	120	0			

Sample ID **056591-025AMS** Batch ID: **8691** Test Name **LEAD BY ATOMIC ABSORPTION** Units **mg/L** Analysis Date: **5/10/2002** Prep Date: **5/10/200**

MS SeqNo: **274342**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.4	0.20	5	0	107	80	120	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
M - Not Monitored. Highly Reactive
S - Spike/Surrogate outside of limits due to matrix interference
DO - Surrogate Diluted Out

Initials: _____

3

All calculations are based on raw values.

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *10-May-02*

CLIENT: Geocon Environmental
Work Order: 056590
Project: RTE 405-EA4N4601 - 9100-06-41

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID **LCS-8691** Batch ID: **8691** Test Name **LEAD BY ATOMIC ABSORPTION** Units **mg/L** Analysis Date: **5/10/2002** Prep Date: **5/10/200**

LCS SeqNo: **274344**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.2	0.20	7.5	0	96	80	120	0			

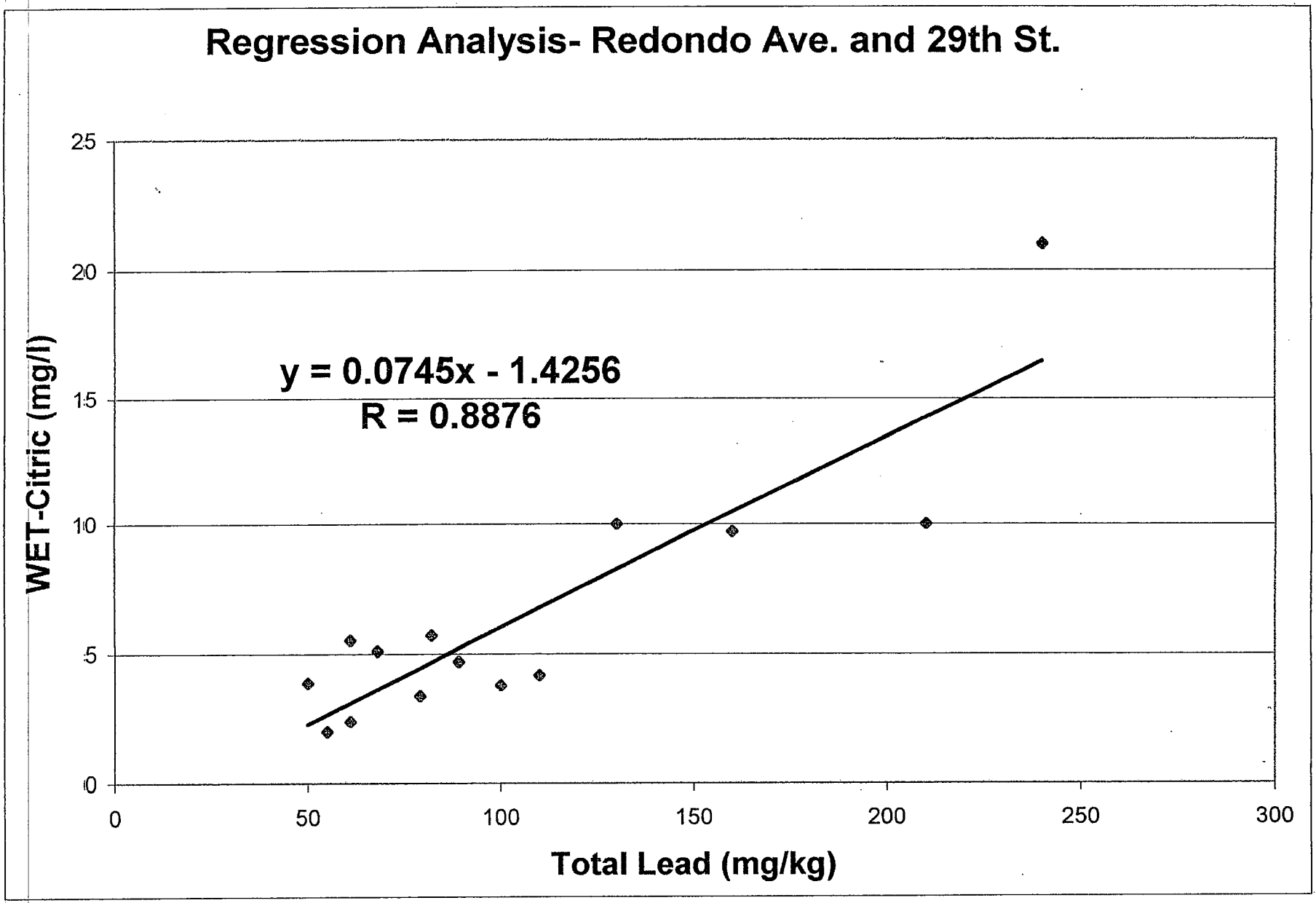
Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
M - Not Monitored. Highly Reactive
S - Spike/Surrogate outside of limits due to matrix interference
DO - Surrogate Diluted Out

Initials: ____

4

All calculations are based on raw values.

APPENDIX D


Regression Analysis- Redondo Ave. and 29th St.
y = 0.0745x - 1.4256
R = 0.8876
WET-Citric (mg/l)
Total Lead (mg/kg)
0
5
10
15
20
25
0
50
100
150
200
250
300

Task Order Number: 07-3N5101-PN
EA: 4N4601
Project Name: Redondo & 29th Curb Ramps
Project No.: 09100-06-41

Block Diagrams - One-Tailed 90% UCL for Arcsine Distribution

DIAGRAM A

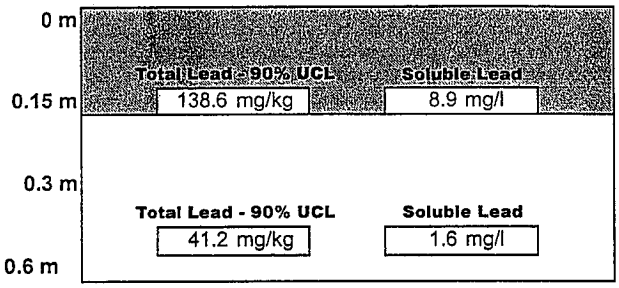


DIAGRAM B

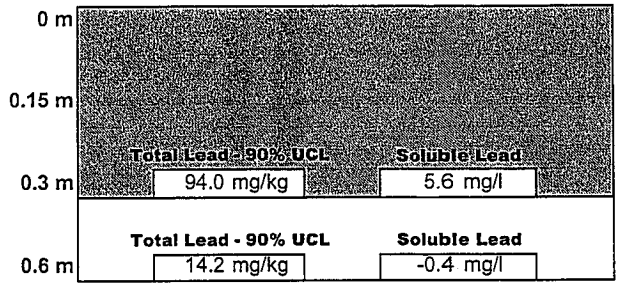
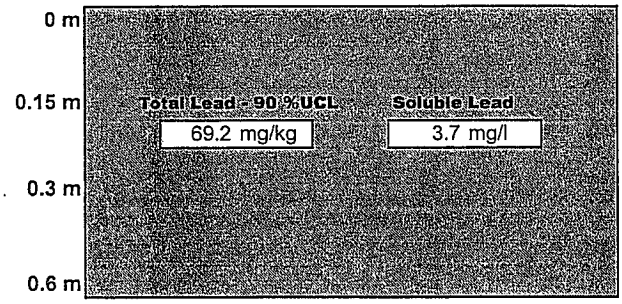


DIAGRAM C



Task Order Number: 07-3N5101-PN
EA: 4N4601
Project Name: Redondo & 29th Curb Ramps
Project No.: 09100-06-41

Block Diagrams - One-Tailed 95% UCL for Arc Sine Distribution

DIAGRAM A

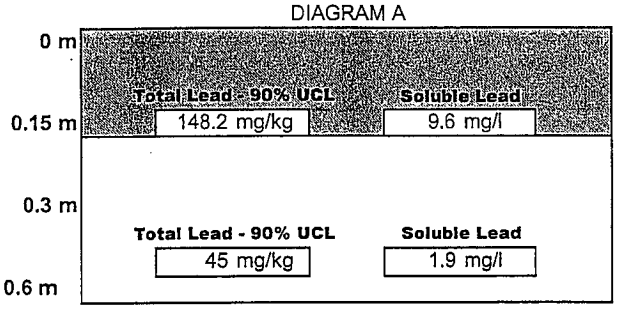


DIAGRAM B

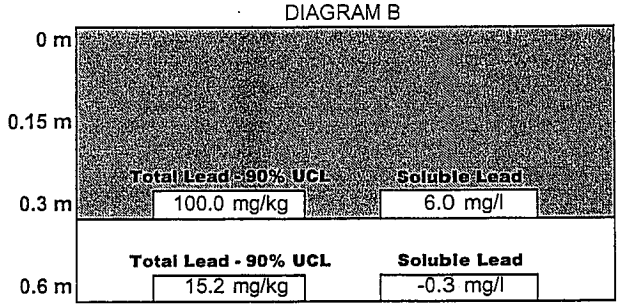
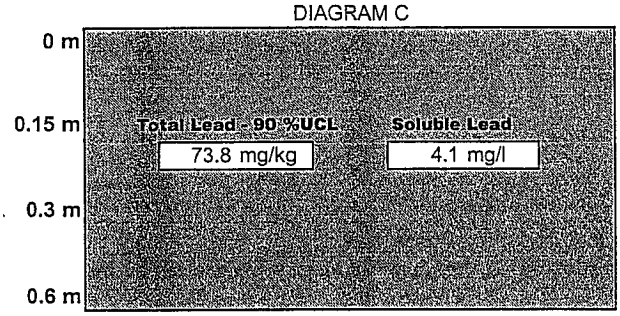
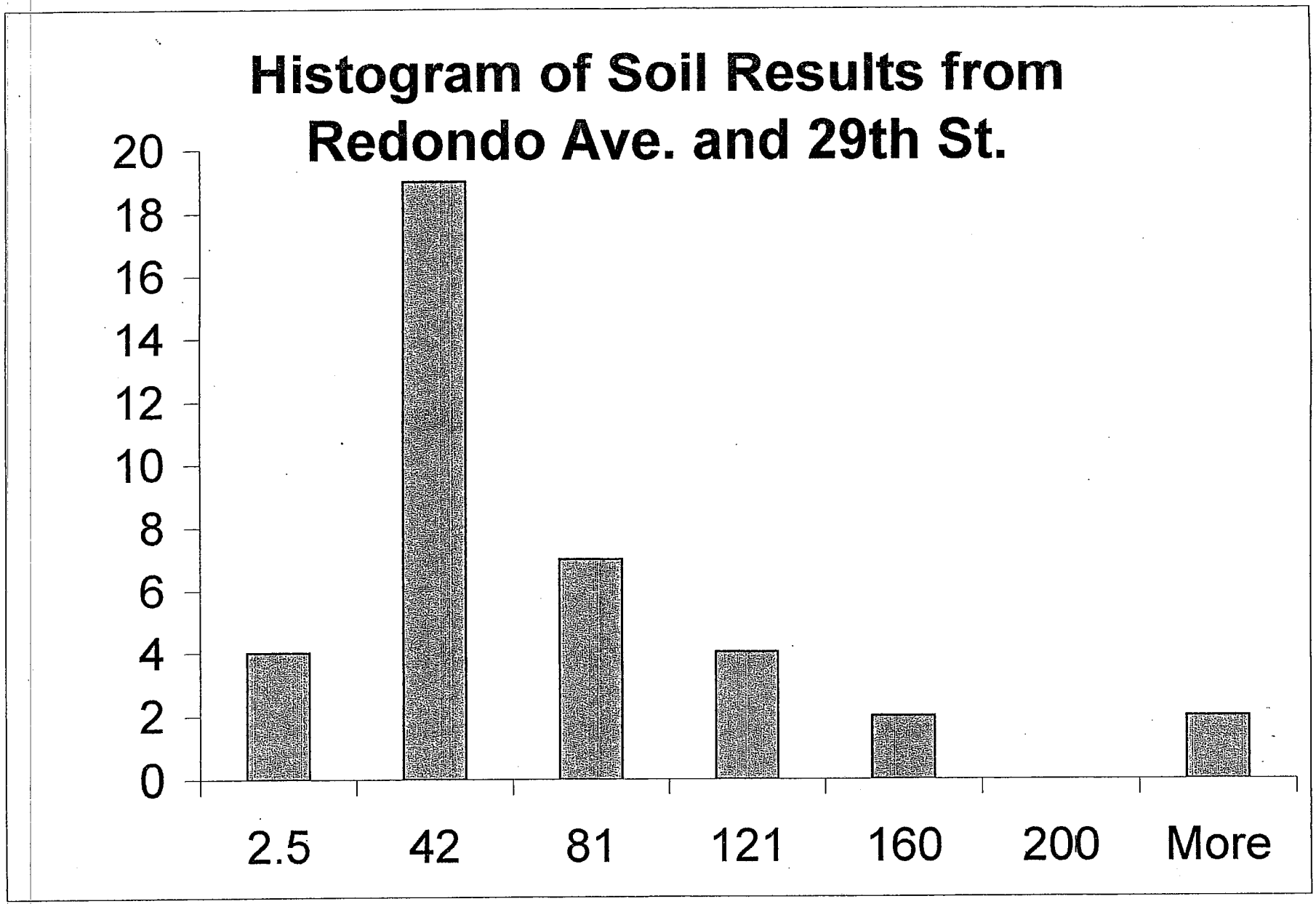


DIAGRAM C




Histogram of Soil Results from Redondo Ave. and 29th St.
20
18
16
14
12
10
8
6
4
2
0
2.5
42
81
121
160
200
More

1035.

DIAZ•YOURMAN

& ASSOCIATES

Geotechnical Services

A Report Prepared for:

Kimley-Horn and Associates, Inc.
765 The City Drive
Suite 400
Orange, CA 92868

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OFFICE OF PERMITS

PHASE II ENVIRONMENTAL INVESTIGATION
CHERRY AVENUE AT INTERSTATE 405
NORTH-BOUND COLLECTOR RAMP
LONG BEACH, CALIFORNIA

CALTRANS PERMIT NUMBER 708-6SV-1314

DRAFT

Project No. 2008-026

by

Clint Isa
Staff Engineer

Gary Gilbert
Civil Engineer 62781

REGISTERED PROFESSIONAL ENGINEER
GARY K. GILBERT
No. C 62781
Exp. 06-30-10
CIVIL
STATE OF CALIFORNIA

Diaz•Yourman & Associates
1616 East 17th Street
Santa Ana, CA 92705-8509
(714) 245-2920

November 26, 2008

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

LIST OF ACRONYMS

ADL - Aerially Deposited Lead
ASTM - American Society for Testing and Materials
bgs - below ground surface
CAL EPA - California Environmental Protection Agency
CALTRANS - California Department of Transportation
CEQA - California Environmental Quality Act
CHHSL - California Human Health Screening Levels
DHS - California Department of Health Services
DYA - Diaz•Yourman & Associates
DTSC - California Department of Toxic Substances Control
EPA - U.S. Environmental Protection Agency
HSC - California Health and Safety Code
I - Interstate
ISA - Initial Site Assessment
LUST - Leaking Underground Storage Tank
mg/kg - milligrams per kilogram
mg/l - milligrams per liter
ND - Not Detected
PID - Photo Ionization Detector
Project - Cherry Avenue/Interstate 405 Northbound Collector Ramp Improvements
QA - Quality Assurance
QC - Quality Control
ROW - Right-of-Way
STLC - Soluble Threshold Limit Concentration
TCLP - Toxicity Characterization Leaching Procedure
TRPH - Total Recoverable Petroleum Hydrocarbons
TTLC - Total Threshold Limit Concentration
UCL - Upper Confidence Limit
USA - Underground Service Alert
USGS - United States Geologic Service
VOC - Volatile Organic Compounds
WET - California waste extraction test

EXECUTIVE SUMMARY

This Phase II environmental site investigation was prepared for the proposed improvements to the northbound collector ramp for Cherry Avenue at Interstate (I) 405 in Long Beach, California (Project). This report covers the landscaped portion of the Project between the collector onramp and the I-405 right-of-way (ROW) west of Cherry Avenue, a portion that will be excavated during construction of the proposed improvements.

The objective of the Phase II investigation was to evaluate whether soil contamination in the ROW may impact construction activities, and to provide a hazard assessment for the mitigation of impacts during earthwork. The Phase II investigation was also performed so that soil excavation and disposal can be managed properly, and to inform the contractor of potential contamination so that proper mitigation measures can be implemented. Excavated soils are required by State and Federal regulations to be classified as nonhazardous or hazardous prior to reuse as fill or disposal offsite. A remediation plan is beyond the scope of our services.

Determining the extent of the soil excavated for the Project should be based on results of the testing, data analysis, and the reuse potential of excavated soil within the Project corridor. If the soil cannot be reused in the corridor, Project planning should include allowances for managing soil with hazardous levels of contaminates as a regulated waste, usually by disposal at a landfill accepting hazardous or regulated wastes.

Thirty-two soil samples were collected from six boring locations spaced at approximately 100-foot-long intervals along the Project ROW. Samples were typically tested for more than one type of contamination as follows:

- Twenty-five soil locations were tested for aerially deposited lead (ADL). Three samples were tested for Title 22 metals, which included ADL.
- Three soil samples were tested for hydrocarbons and volatile organic compounds (VOCs). An additional sample was also tested for VOCs.

Based on review of analytical test results, DYA recommends the following restrictions for use of the soils within the areas tested for this Project:

- The existing undisturbed soils are not considered potentially hazardous waste until the soils are excavated.
- The ADL testing data was analyzed on a combined layer basis with the samples using statistical methods noted in EPA SW-846. Based on linear regression analysis and statistical analysis for the samples collected, the composite soil will have an ADL total threshold limit concentration (TTLC) greater than 100 milligrams per kilogram (mg/kg) and a lead soluble threshold limit concentration (STLC) greater than 5 milligram per liter (mg/l). Because the STLC is greater than 5 mg/l, it should be classified in accordance with the California Code of Resolutions (CCR) Title 22 as hazardous waste. Most of the higher concentrations of ADL were within the upper 2 feet of soil.
- To reduce the composite levels of ADL of the soils onsite, the upper 1-foot of soil across the site should be removed and disposed offsite as waste. An additional 2 feet of soil (total 3 feet) should be removed in the vicinity of Boring CAB-3 from Station 62+50 to Station 63+75, and an additional foot (total 2 feet) should be removed in the vicinity of Boring CAB-6 from Stations 66+00 to 68+00, approximately. The ultimate extent of the excavation will consist of the area bound by the existing edge of pavement and the limits of the excavation as shown on the plans, as otherwise deemed necessary for construction, or as directed by the Engineer. Upon completion of the recommended removals, the revised linear regression analysis of the remaining composite soil will have a TTLC less than 100 mg/kg, and STLC less than 5 mg/l. Therefore, it is our opinion that the remaining soils at depths below the removal depths will be classified as nonhazardous and there will be no restrictions on the use of the remaining soil excavated for the Project as fill within the corridor.
- The samples with STLC values greater than 5 mg/l were tested for toxicity characterization leaching procedure (TCLP). The results of the eleven tests performed were below the federal regulatory limit of 5 mg/l. The eleven samples were located in the upper 2 feet of soil.

1.0 INTRODUCTION

This Phase II environmental site investigation was prepared for the proposed improvements to the northbound collector ramp for Cherry Avenue at Interstate (I) 405 in Long Beach, California (Project). This report covers the landscaped portion of the Project between the collector onramp and the I-405 right-of-way (ROW) west of Cherry Avenue, as shown on Figure 1, a portion of which will be excavated during construction of the proposed improvements.

The portion of the Project area to be excavated begins approximately 300 feet west of the Cherry Avenue overcrossing, and continues along the alignment of Collector Road 1-N to the intersection with I-405, as shown on the Site Plan, Figure 2. The intent of this Phase II investigation is to screen the Project for lead-impacted soil as well as other contaminates of concern that may affect construction of the proposed Project to comply with the hazardous waste section of the California Environmental Quality Act (CEQA). Recommendations for remediation are not a part of the scope of this work.

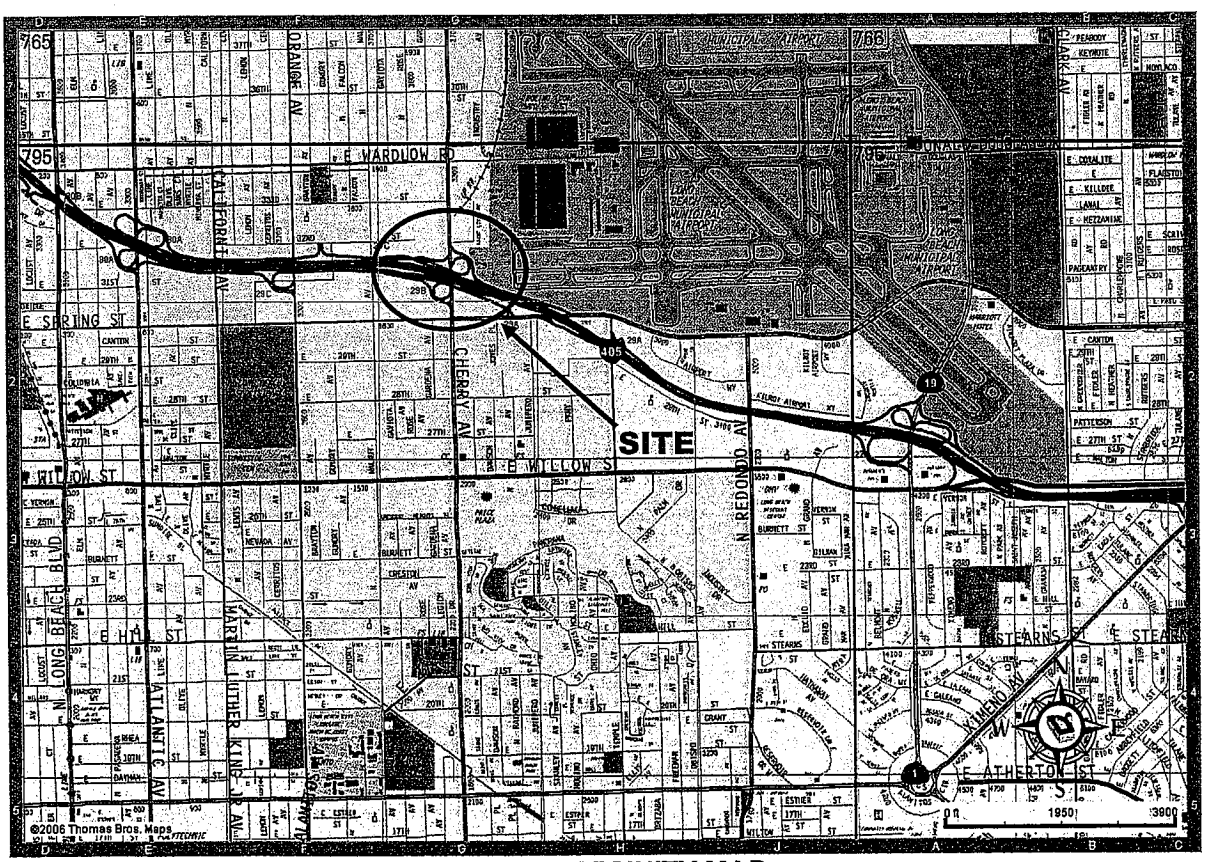


Figure 1 - VICINITY MAP

K:\datafls\PROJECTS\2008\2008-026\CAD\Site Plan.dwg

CAB-1		
	ADL	
Depth	TTLC	STLC
ft	mg/kg	mg/l
0	ND	-
1	6.1	-
2	6.4	-
5	6.9	-

CAB-2		
	ADL	
Depth	TTLC	STLC
ft	mg/kg	mg/l
0	180	8.3
1	7.9	-
2	7.1	-
5	34	-

CAB-3		
	ADL	
Depth	TTLC	STLC
ft	mg/kg	mg/l
0	960	48
1	7.7	-
2	910	33
5	47	-

CAB-4		
	ADL	
Depth	TTLC	STLC
ft	mg/kg	mg/l
0	82	5.0
1	130	6.0
2	21	-
5	2.9	-

CAB-5		
	ADL	
Depth	TTLC	STLC
ft	mg/kg	mg/l
0	180	9.7
1	66	5.1
2	78	1.8
5	68	0.24

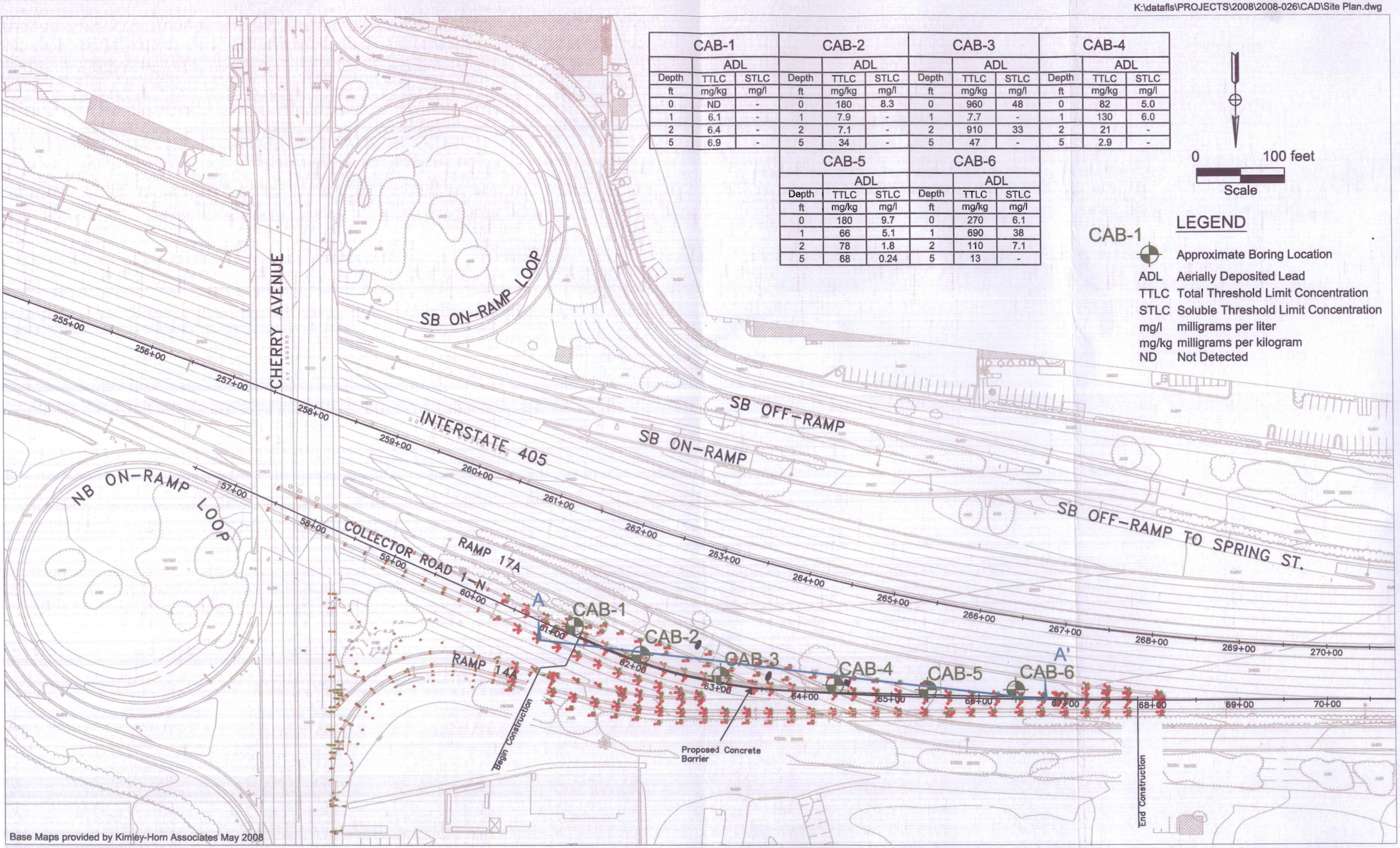
CAB-6		
	ADL	
Depth	TTLC	STLC
ft	mg/kg	mg/l
0	270	6.1
1	690	38
2	110	7.1
5	13	-

0 100 feet
Scale

LEGEND

CAB-1 Approximate Boring Location

ADL Aerially Deposited Lead
TTLC Total Threshold Limit Concentration
STLC Soluble Threshold Limit Concentration
mg/l milligrams per liter
mg/kg milligrams per kilogram
ND Not Detected



Base Maps provided by Kimley-Horn Associates May 2008

Figure 2 - SITE PLAN

2.0 PROJECT BACKGROUND

2.1 DATA REVIEW

An initial site assessment (ISA) checklist was prepared by Kimley-Horn and Associates (Kimley-Horn) for the Project. The ISA checklist identified aerially deposited lead (ADL) and hydrocarbons as potential hazards for this Project.

2.2 HISTORICAL SITE USE

The subject site was undeveloped until approximately 1960, as residential and commercial development increased in the areas adjacent to the site over time. Between 1960 and 1968, I-405 was constructed, at which time the Project site was developed for its present use. The site has remained relatively unchanged since then.

2.3 SITE VISIT

Site visits were performed on September 25, 2008, and October 13, 2008.

2.4 CHEMICALS OF CONCERN

The following descriptions of chemicals of concern are based on the historical land use of the Project vicinity and information gathered in the ISA checklist.

2.4.1 ADL

In soils adjacent to highways, lead has accumulated above natural levels primarily due to historic use of lead antiknock compounds in gasoline. Previous studies show that lead concentrations in near-highway surface soil were commonly highest within the upper 2 feet and decrease with depth (Caltrans, 1998). When soil with elevated lead levels is excavated, the soil becomes a regulated waste. The U.S. Environmental Protection Agency (EPA) and California Department of Toxic Substances (DTSC) have established limit concentrations of lead in waste soil based on specified testing methods that trigger classification of waste soil as a hazardous waste, with guidelines for appropriate disposition (EPA, 2001).

2.4.2 Hydrocarbons

The ISA checklist identified one leaking underground storage tank (LUST) and one site listed as a potential health risk by the State Water Resources Control Board within approximately 1/8 mile of the site. The Project is downgradient of the two sites and may have the potential to affect soil and/or groundwater within the Project area.

2.4.3 Other Metals

Based on previous Phase II investigations performed in Caltrans' ROW, there is potential for elevated levels of other Title 22 metals from multiple sources.

2.5 GEOLOGY AND GROUNDWATER

The Project location is shown on the US Geologic Service (USGS) 7.5 minute quadrangle, Long Beach, California, dated 1964, photo-revised 1981, which is provided in Appendix A. The general ground elevation of the Project area is approximately 55 to 65 feet above mean sea level (MSL) with the freeway and ramp below the surrounding grade. The general Project area drains northeasterly towards the Long Beach Airport.

The Project is located within the southern area of the Los Angeles Coastal Plain, a regional alluvial basin overlying Tertiary sedimentary rocks. The surface of the Project area is mapped as Quaternary non-marine terrace deposits (CDMG, 1962). The Newport-Inglewood fault zone passes northwest to southeast within 1 mile south of the Project area. The active fault is locally manifested by uplifted early Pleistocene sedimentary rock of Signal Hill, ½ mile to the south. According to California Department of Water Resources Bulletin 104 (DWR, 1961), unconsolidated alluvial sediments are approximately 1,000 feet thick in the area and contain a series of confined aquifers used for municipal water supplies. Low permeability Tertiary sedimentary bedrock of the Pico formation lies beneath the unconsolidated sediments.

According to DWR Bulletin 104, the groundwater in the Project area is located on the southern margin of the Central Basin Pressure Area of the Los Angeles Coastal Plain. The basin is characterized by confined sandy aquifers separated by intermittent silt and clay aquicludes to a depth of approximately 1,000 feet. The Cherry Hill fault segment of the Newport-Inglewood fault zone, located approximately 1 mile to the south, forms a groundwater barrier for the southern

boundary of the Central Basin. The aquifers are used extensively for drinking water resources in the basin by municipalities, private suppliers, and water districts. According to Water Replenishment District of Southern California, Groundwater Elevation Contour Map Fall 2001, the groundwater level in the first aquifer is located approximately 80 to 100 feet below grade and flows north toward an inland pumping depression within the central area of the Central Basin. There is no significant surface water within 1 mile of the Project site. The Los Angeles River is located approximately 2 miles west of the project site.

3.0 OBJECTIVE

The objective of the Phase II investigation was to evaluate whether soil contamination in the ROW may impact construction activities, and to provide a hazard assessment for mitigating impacts during earthwork. The Phase II investigation was also performed so that soil excavation and disposal can be managed properly and to inform the contractor of potential contamination so that proper mitigation measures can be implemented. Excavated soils are required by State and Federal regulations to be classified as nonhazardous or hazardous prior to reuse as fill or disposal offsite. A remediation plan was beyond the scope of our services.

Determining the extent of the soil excavated for the Project should be based on results of the testing, data analysis, and potential reuse of excavated soil within the Project corridor. Project planning should include allowances for managing soil with hazardous levels of contaminates as a regulated waste, usually by disposal at a landfill accepting hazardous or regulated wastes.

4.0 SCOPE OF WORK

The scope of this Phase II investigation consisted of the following:

- Preparing a work plan.
- Reviewing existing data.
- Preparing a site-specific health and safety plan.
- Notifying Underground Service Alert (USA).
- Collecting soil samples in the field.
- Performing laboratory analyses.
- Developing preliminary conclusions regarding impact of soil contamination on proposed construction.
- Preparing this Phase II report.

To avoid confusion with previous investigations performed adjacent to this site, the boring names were modified from those used in the work plan (i.e., B-2 was changed to CAB-2). No other deviations were made from the work plan.

5.0 SAMPLING METHODOLOGY

The approximate boring locations for environmental soil testing are shown on the Site Plan presented on Figure 2. Guidelines prepared by Caltrans for ADL sampling (1998, 2001) were used to determine the spacing of the borings. The proposed borings were spaced as an average interval of approximately 100 linear feet. The soil samples collected were transported to the laboratory, and soil samples not tested were put on hold for a limited time for potential future testing.

Borings were performed using a hand auger. Four soil samples were collected from each boring with 2-inch-diameter, 6-inch-long stainless steel tubes using a manually driven sampler with a slide hammer. The soil collected in the stainless steel tubes was capped with Teflon sheets and end-caps. The soil samples were collected at the ground surface (0 to 0.5 foot), 1 foot (1 to 1.5 feet), 2 feet (2 to 2.5 feet), and 5 feet (5 to 5.5 feet) below existing grades. Surface debris and vegetation was cleared before the soil samples were collected. The samples were labeled to specify the sample location and depth. The samples were then placed in ziploc bags, placed on ice, and stored inside coolers. Borings were backfilled with bentonite chips, except for the upper 1 foot, which was backfilled with the cuttings. No excess soils were generated during excavation of the borings. Photographs of the boring locations are provided in Appendix A.

Samples tested for volatile organic compounds (VOCs) were collected using an EnCore sampler using EPA method 5035 and the manufacturer's instructions. At the selected sampling locations, a soil sample was taken using a stainless steel sleeve, as described above. The sleeve was removed from the core sampler, and subcored samples were then immediately collected in three 5-gram Encore samplers. The Encore samples were immediately capped, labeled, and placed in the supplied sample bag. The boring locations and sample depths were specified on the sample label.

The soil samples were stored in a pre-chilled ice chest and maintained at 4 degrees Celsius, plus or minus 2 degrees Celsius with wet ice, and kept chilled until delivered to the analytical laboratory. The soil samples were placed in the ice chest to minimize movement during transport.

The quality assurance/quality control (QA/QC) soil samples were labeled such that the samples would not be distinguished as QA/QC samples by the testing laboratory. However, the same labeling convention (i.e., boring location and sample depth) was still used for these samples.

The borings were logged by a staff engineer working under the supervision of a licensed Civil Engineer and a Certified Engineering Geologist. The boring logs document the sample location, sampling procedures, and other pertinent field activities. Logs of the borings are presented in Appendix B. The soil samples were reviewed at DYA's office by the supervising Civil Engineer, with the Certified Engineering Geologist reviewing the boring logs.

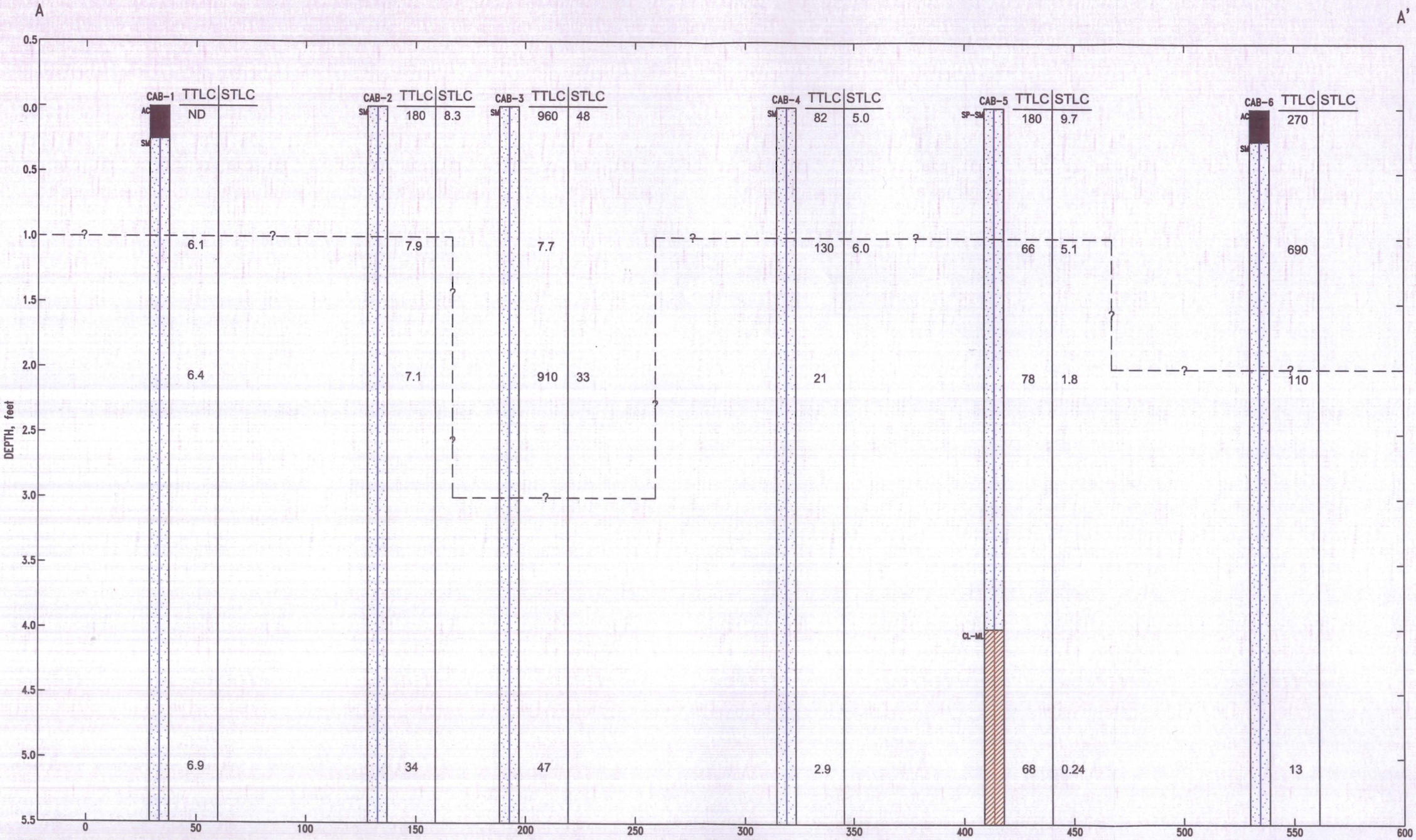
Soils encountered in the test borings were classified in general accordance with the ASTM Soil Classification System (ASTM D2488) and presented on boring logs. Chain-of-custody procedures are described in Section 7.2.

6.0 LABORATORY ANALYSIS

Test America, Inc. in Irvine, California, performed laboratory testing for the Project. Test America, Inc. is certified by the State of California Department of Health Services (DHS) to perform the designated analyses. Laboratory reports are presented in Appendix C.

6.1.1 ADL

Soil samples from each boring were analyzed for lead total threshold limit concentration (TTLC) by U.S. EPA Method 6010B. Caltrans guidelines (2001) recommend that soil samples with lead TTLC less than 1,000 milligrams per kilogram (mg/kg), but greater than or equal to 50 mg/kg, be tested for soluble lead using the California waste extraction test (WET) to determine the soluble threshold limit concentration (STLC) using EPA method 6010B. The eleven soil samples with the greatest TTLC were tested for toxicity characterization leaching procedure (TCLP), using EPA method 6010B. In addition, four soil samples were analyzed for soil pH (EPA 9045C). Three of the soil samples were tested for California Title 22 Metals. A summary of the ADL laboratory test results is presented in Table 1. The laboratory test results are also summarized on the cross section shown on Figure 3. The location of the cross section is shown on Figure 2.



NOTES: See Plate B1 for material graphics description.
Symbol to left of graphic column is based on ASTM D2487 and D2488.
TTLC Total Threshold Limit Concentration, milligrams per kilogram
STLC Soluble Threshold Limit Concentration, milligrams per liter
— ? — Approximate Depth of Recommended Hazardous Waste Removal

Figure 3 - CROSS SECTION A

Table 1 - ADL LABORATORY TEST RESULTS

SAMPLE ID.	DEPTH (feet)	TOTAL LEAD	SOLUBLE LEAD	
		TTLC (mg/kg)	STLC WET (mg/l)	TCLP (mg/l)
CAB-1	0	ND		
	1	6.1		
	2	6.4		
	5	6.9		
CAB -2	0	**180**	**8.3**	0.13
	1	7.9		
	2	7.1		
	5	34		
CAB -3	0	**960**	**48**	0.31
	1	7.7		
	2	**910**	**33**	0.24
	5	47		
CAB -4	0	**82**	5	
	1	**130**	**6**	ND
	2	21		
	5	2.9		
CAB -5	0	**180**	**9.7**	ND
	1	**66**	**5.1**	0.30
	2	**78**	1.8	
	5	**68**	0.24	
CAB -6	0	**270**	**6.1**	0.19
	1	**690**	**38**	0.58
	2	**110**	**7.1**	
	5	13		
CAB -7[1]	0	**120**	**7.5**	ND
	1	**130**	**9.5**	ND
	2	**130**	**8.3**	1.4
	5	7.5		

Notes:

1. Samples collected from CAB-7 are the duplicate samples for CAB-4.

- STLC = Soluble threshold limit concentration.
- TTLC = Total threshold limit concentration.
- Samples with TTLC greater than 50 mg/kg are in bold face type.
- Samples with STLC greater than 5 mg/l are in bold face type.
- mg/kg = milligrams per kilogram.
- mg/l = milligram per liter.

6.1.2 Metals

Selected soil samples collected from Borings CAB-1, CAB-3, and CAB-5 were analyzed for the California Title 22 list of 17 hazardous waste metals. Results from these laboratory tests are summarized in Table 2.

Table 2 - METALS LABORATORY TEST RESULTS

		Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
TTLC (mg/kg)		500	500	10,000	75	100	2,500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
CHHSL (mg/kg)		380	0.24	63,000	1,700	7.5	100,000	3,200	38,000	3,500	180	4,800	16,000	4,800	4,800	63	6,700	100,000
Background Range[1] (mg/kg)		0.15 to 1.95	0.6 to 11	133 to 1400	0.25 to 2.7	0.05 to 1.7	23 to 1579	2.7 to 46.9	9.1 to 96.4	14.3 to 107.9	0.1 to 0.9	0.1 to 9.6	13 to 1210	0.015 to 0.43	0.1 to 8.3	0.17 to 1.1	39 to 288	88 to 236
Reporting Limits[2] (mg/kg)		3	5	1	1	2	2	2	1	3	0.1	1	2	5	2	2	5	1
SAMPLE ID.	**DEPTH (feet)**	**RESULTS**																
CAB-1	0	ND	ND	47	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CAB -3	0	ND	6.2	130	ND	0.63	28	6.7	41	**960**	0.080	3.1	30	ND	ND	ND	28	**330**
CAB -5	0	ND	3.4	64	ND	ND	17	4.6	54	**180**	0.021	3.6	17	ND	ND	ND	16	**110**

Notes:

1. Background Range - Kearny (1996)
2. Effective detection limits

- Samples with concentrations greater than background levels are in bold face type
- TTLC = Title 22 total threshold limit concentration
- CHHSL = California Human Health Screening Levels - Commercial/Industrial Land Use (California EPA, 2005)
- mg/kg = milligrams per kilogram
- Sb = Antimony
- As = Arsenic
- Ba = Barium
- Be = Beryllium
- Cd = Cadmium
- Cr = Chromium (III)
- Co = Cobolt
- Cu = Copper
- Pb = Lead
- Hg = Mercury
- Mo = Molybdenum
- Ni = Nickel
- Se = Selenium
- Ag = Silver
- Tl = Thallium
- V = Vanadium
- Zn = Zinc

6.1.3 TRPH and VOC

Soil samples collected were observed visually for hydrocarbon staining and monitored using a photoionization detector (PID) during the field investigation. None of the soil samples indicated elevated levels of hydrocarbons based on the visual observations or PID readings. At a depth of 3 feet below the ground surface (bgs), soil samples at CAB-1 and CAB-4 were tested for total recoverable petroleum hydrocarbons (TRPH, EPA test method 8015 [gas and diesel]) and VOCs (EPA test method 8260); the soil sample collected from CAB-5 at 3 feet was tested for VOCs. The results of the TRPH and VOC laboratory analyses indicate that no further action is warranted.

7.0 QUALITY ASSURANCE/QUALITY CONTROL

7.1 DECONTAMINATION

The sampling equipment was decontaminated prior to collecting each soil sample. The decontamination consisted of washing the equipment and/or sampler in water mixed with a nonphosphate detergent, rinsing with water, rinsing with distilled water, and then drying using paper towels (paper towels were used once.) Brushes were used with the nonphosphate detergent to remove debris from the hand-augering equipment prior to rinsing. Decontamination water was disposed of in the landscaped area such that the water would not run off into a storm drain.

7.2 CHAIN OF CUSTODY

Soil samples were collected in stainless steel tubes and stored in a cooler with ice. EnCore samples collected at the same depth within a boring were placed in a single Ziploc bag, which was then stored in a cooler on ice. A chain-of-custody form was filled out to track the soil samples. The chain-of-custody form traveled with the cooler and documented that the samples were maintained in possession until relinquished to the laboratory. The chain-of-custody form remained with the soil samples at all times and was placed in the cooler with the samples. The completed chain-of-custody form was placed in a waterproof carrier (e.g., zip-lock bag), and taped to the inside lid of the cooler. Each person involved in the chain of possession signed the chain-of-custody form when sample custody was relinquished or received. Custody of a sample is defined as being in one's actual possession, being in one's view after being in his or her physical possession, was in one's physical possession and that person then locked it up to prevent tampering, and/or in an identified and designated secure area. Copies of the chain-of-custody forms are provided with the results of the laboratory testing in Appendix C.

7.3 QUALITY ASSURANCE/QUALITY CONTROL (QA/QC) SAMPLES

7.3.1 Field QA/QC

7.3.1.1 Equipment Blank

Two equipment blanks were collected by pouring deionized water through the sampling device and into a glass jar after decontamination was completed. The testing for the equipment blanks was consistent with the testing performed on samples collected using the equipment. The blank samples were tested for TPH, VOCs, and Title 22 metals. The results for the testing of the equipment blank were below reporting limits.

7.3.1.2 Trip Blank

One trip blank was collected from the ice chest water used to transport samples. The trip blank was analyzed for VOC, and the test results were below reporting limits.

7.3.1.3 Duplicate Blank

Five duplicate blank samples were collected from Boring CAB-4 by co-located samples. For QA/QC purposes, the duplicate blank samples were labeled as having been collected from Boring CAB-7. The testing for the duplicate blanks was consistent with the testing performed on the original co-located samples. The duplicate soil samples collected at depth of 0, 1, 2, and 5 feet bgs were tested for lead, and the sample collected at 3 feet bgs was tested for TRPH and VOCs; the results were considered by DYA to be consistent with the original samples. ADL test results are presented in Table 1.

7.3.2 Laboratory QA/QC

Laboratory QA/QC was performed in accordance with the respective EPA protocols, and is described in the laboratory analysis reports presented in Appendix C.

8.0 INVESTIGATIVE RESULTS AND FIELD OBSERVATIONS

8.1 SUBSURFACE

Soils encountered in the borings generally consisted of silty sand. Groundwater was not encountered during sampling excavations.

8.2 LABORATORY RESULTS

8.2.1 Comparative Guidelines

The following reference guidelines were used for comparison to evaluate the laboratory test results:

- Caltrans/DTSC for ADL, Proposed Soil Lead Management Criteria as Part of Caltrans Highway Construction Maintenance (Caltrans, 1998), and Lead Testing Recommendations for Districts with Aerially Deposited Lead Variance (Caltrans, 2001) was used for evaluation of ADL concentration.
- California Health and Safety Code (HSC), Division 20, Chapter 6.5, Hazardous Waste Control (HSC, 2003) was used for comparison to hazardous waste classification concentrations.
- California Environmental Protection Agency (CAL EPA, 2005), Use of California Human Health Screening Levels (CHHSL) for use in Evaluating Contaminated Properties, guidelines used to compare concentrations of certain hazardous chemical constituents in soil to thresholds of concern for risk to human health.
- Background Concentrations of Trace and Major Elements in California Soils (Kearny, 1996), used as a frame of reference to evaluate for elevated metals in soils.

8.2.2 Lead

A summary of the laboratory results for the discrete soil samples tested for lead is provided in Table 3. As shown in Table 3, none of the discrete soil samples tested had concentrations of lead that exceeded regulatory (CCR Title 22) TTLC of 1,000 mg/kg, but twelve samples exceeded the regulatory STLC of 5 milligrams per liter (mg/l).

Table 3 - SUMMARY OF LABORATORY RESULTS (Lead and pH)

NUMBER OF TESTS								pH (average)
TTLC (mg/kg)				STLC (mg/l)		TCLP (mg/l)		
<50	50 to 350	350 to 1,000	>1,000	≤5	>5	≤5	>5	
13	12	3	0	3	12	11	0	8.1

Notes:
- TTLC = Total threshold limit concentration = EPA Method 6010.
- STLC = soluble threshold limit concentration.
- DI-WET = California STLC method with deionized water.
- mg/kg = milligrams per kilogram.
- mg/L = milligrams per liter.

The samples with STLC values greater than 5 mg/l were tested for toxicity characterization leaching procedure (TCLP). The results of the eleven tests performed were below the federal regulatory limit of 5 mg/l.

8.2.3 pH

The values of pH varied from 6.8 to 8.4 and the average value is summarized in Table 3. None of the discrete soil samples tested had pH levels less than 5.

8.2.4 Title 22 Metals

None of the discrete soil samples tested for Title 22 metals, except lead, had concentrations that exceeded the regulatory TTLC values for hazardous waste specified in the California Code of Regulations Title 22.

8.2.5 TRPH and VOC

The results of the TPH and VOC laboratory analyses indicate that the concentrations recorded in the samples tested do not exceed regulatory limits.

9.0 ADL DATA EVALUATION AND DISCUSSION

9.1 ADL DATA ANALYSIS

Results of the ADL laboratory tests were evaluated using statistical analysis methods prescribed by Caltrans guidelines for ADL. DYA analyzed the lead testing data on a combined layer with all the samples using statistical methods noted in EPA SW-846. The mean, median, standard deviation, and 95 percent upper confidence limit (UCL) were calculated for TTLC. A regression analysis of TTLC versus STLC was performed to determine the correlation between the total lead and soluble lead for which the data is a bivariate with a linear structure, as shown on Figure 4. STLC was a predicted value corresponding to the 95 percent UCL for TTLC based on the regression analysis. The regression analysis also served as a quality check of field and laboratory procedures.

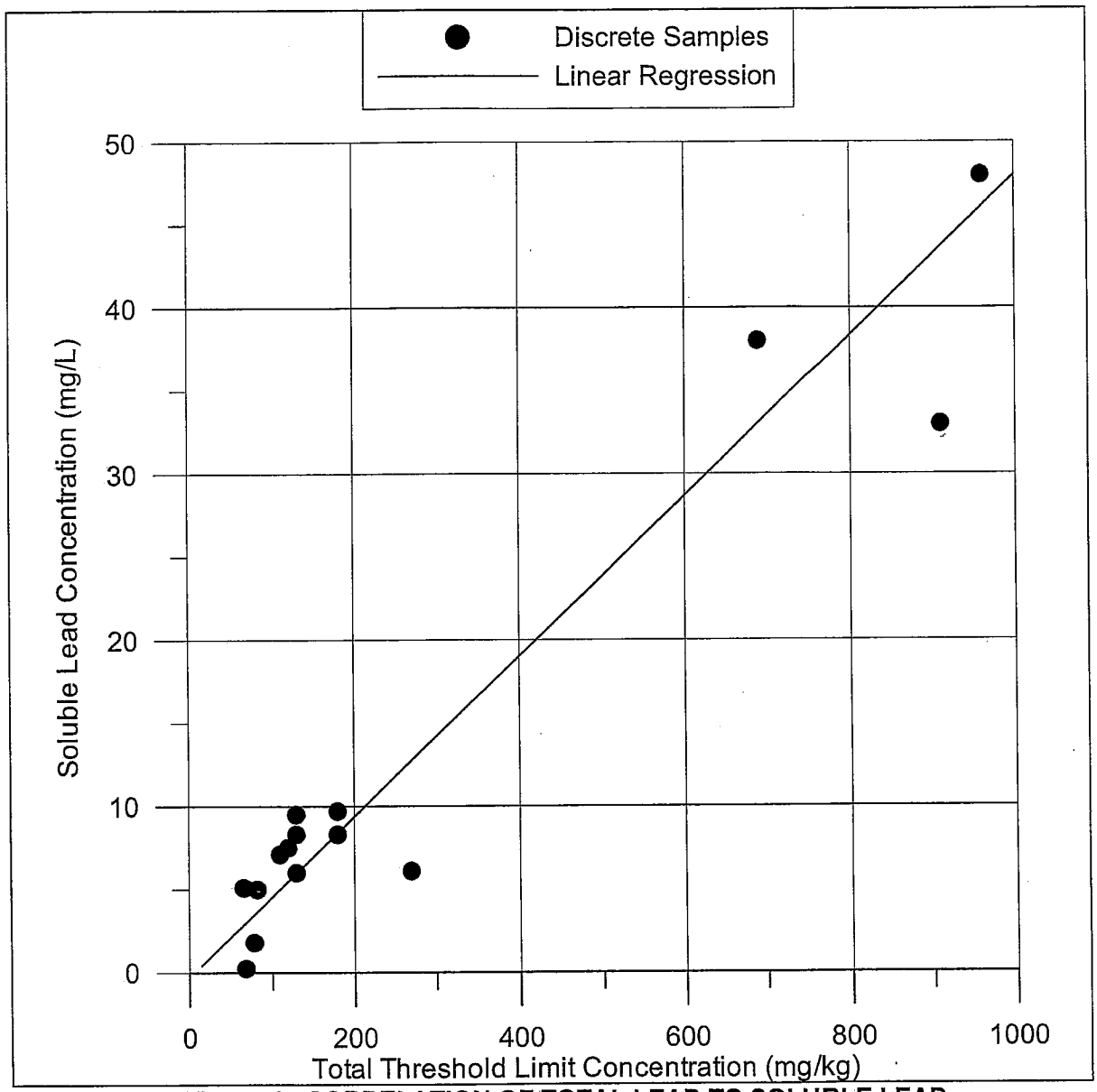


Figure 4 - CORRELATION OF TOTAL LEAD TO SOLUBLE LEAD

The data sets were checked for the appropriate number of samples, and in the datasets, the number of samples tested for TTLC exceeded the minimum number required for a statistical analysis according to EPA SW-846.

The 95 percent UCL values were used to determine handling and disposal of excess soil in accordance with CCR Title 22 (1,000 mg/kg regulation limit). The analysis was performed to obtain an efficient management of soil using a combined layer analysis.

9.2 ADL CRITERIA

Waste soil is classified as hazardous waste if the TTLC is greater than 1,000 mg/kg or greater than 5 mg/L STLC.

9.3 ADL STATISTICAL EVALUATION

Statistical analyses were performed on a combined layer using an arcsine transformation in accordance with EPA SW-846, since the TTLC variance was higher than the TTLC mean. The calculated 95 percent UCL was then reverse transformed to obtain the concentration values. The combined layer did not exceed the threshold for nonhazardous waste of 1,000 mg/kg TTLC content or 5 mg/l STLC content. The analysis is provided in Appendix D.

As specified in the Caltrans ADL Guildelines (2002), the correlation coefficient between TTLC and STLC was calculated to evaluate the quality of sampling procedures and laboratory testing. Based on the data set, the correlation coefficient was calculated to be 0.96.

A linear regression analysis of the STLC versus TTLC was graphed and a best fit line was plotted for the data, as shown on Figure 4. A least squares method was used to estimate a straight line correlation. This graph can be used to approximate the expected STLC from the TTLC.

10.0 CONCLUSIONS AND RECOMMENDATIONS

The existing undisturbed soils are not considered potentially hazardous waste until the soil is excavated. Based on linear regression analysis and statistical analysis for the samples, the existing soils, if left in place, will have a TTLC concentration greater than 100 mg/kg, and a corresponding STLC concentration greater than 5 mg/l. Because the STLC is greater than 5 mg/l, it should be classified by CCR Title 22 as hazardous waste. Most of the higher concentrations of lead were within the upper 2 feet of soil.

To reduce the ADL levels in the composite soil that will remain onsite, the upper 1-foot of soil across the site should be removed and disposed offsite as waste. Also, an additional 2 feet of soil (total 3 feet) should be removed in the vicinity of Boring CAB-3 between Stations 62+50 and 63+75, and an additional foot (total 2 feet) should be removed in the vicinity of Boring CAB-6 between Stations 66+00 and 68+00, approximately. The recommended depths of removal for the site are displayed graphically on Figure 3. The ultimate extent of the excavation will consist of the area bound by the existing edge of pavement and the limits of the excavation as shown on the plans; as otherwise deemed necessary for construction; or as directed by the Engineer. Upon completion of the recommended removals, the revised linear regression analysis of the composite soil remaining on site will have a TTLC of less than 100 mg/kg, and STLC less than 5 mg/l. Therefore, it is our opinion that there are no restrictions on the use of the remaining soil excavated at the Project as fill within the corridor or disposed offsite.

10.1 USE OF SOIL ONSITE

The statistical results indicated that after the recommended removals have been performed and disposed offsite, waste soil generated by earthwork or excavation in the remaining upper 5 feet will be below 1,000 mg/kg TTLC and 5 mg/l STLC. In our opinion, after the initially excavated soils have been disposed offsite, there will be no restrictions on the use of the remaining soil excavated at the Project site. If the soil is not used within the corridor as described above, the excavated soil stockpile should be tested to determine the appropriate waste disposal as discussed in Section 10.2.

10.2 WASTE

10.2.1 Classification of Waste

The soils to be removed and disposed offsite had a statistical TTLC concentration greater 650 mg/kg with a correlated STLC concentration greater than 5 mg/l. Waste with TTLC levels greater than 1,000 mg/kg or STLC levels greater than 5 mg/L are in excess of California hazardous waste criteria and must be disposed of in a Class I hazardous waste landfill. In addition, waste with TCLP levels greater than 5 mg/l are in excess of federal hazardous waste criteria and must be disposed of in a Class I hazardous waste landfill. A remediation specialist should be consulted for options other than disposal offsite. The remaining soils below the recommended removals had a statistical TTLC concentration of less than 100 mg/kg with a correlated STLC concentration less than 5 mg/l. There is no restriction on disposal of soil with TTLC less than 1,000 mg/kg and STLC less than 5 mg/L, but excavated soil stockpiles should be tested prior to disposal.

The contractor should prepare a project-specific lead compliance plan to prevent or minimize worker exposure to lead while handling material containing ADL. Attention is directed to Title 8, California Code of Regulations, Section 1532.1, "Lead," for specific California Department of Industrial Relations, Division of Occupational Safety and Health (Cal-OSHA) requirements when working with lead.

10.2.2 Disposal Volume

The volume of soil to be disposed will depend on actual grading activities. The actual limits of the excavation are unknown at this time. Soils at depths greater than the proposed removals are considered nonhazardous and should not have restrictions on disposal. The volume of nonhazardous soils is unknown at this time.

11.0 LIMITATIONS

This report was prepared for this project in accordance with generally accepted geotechnical engineering practices common to the local area. No other warranty, expressed or implied, is made.

The analyses and recommendations contained in this report are based on the literature review, field investigation, and laboratory testing conducted in the area. The results of the field investigation indicate subsurface conditions only at the specific locations and times, and only to the depths penetrated. They do not necessarily reflect strata variations that may exist between such locations.

The validity of our recommendations is based in part on assumptions about the stratigraphy. Observations during construction can help confirm such assumptions. If subsurface conditions different from those described are noted during construction, recommendations in this report must be reevaluated.

This report is intended for use only for the project described. In the event that any changes in the nature, design, or location of the facilities are planned, the conclusions and recommendations contained in this report should not be considered valid unless the changes are reviewed and conclusions of this report modified or verified in writing by DYA. We are not responsible for any claims, damages, or liability associated with the interpretation of subsurface data or reuse of the subsurface data or engineering analyses without our express written authorization.

12.0 BIBLIOGRAPHY

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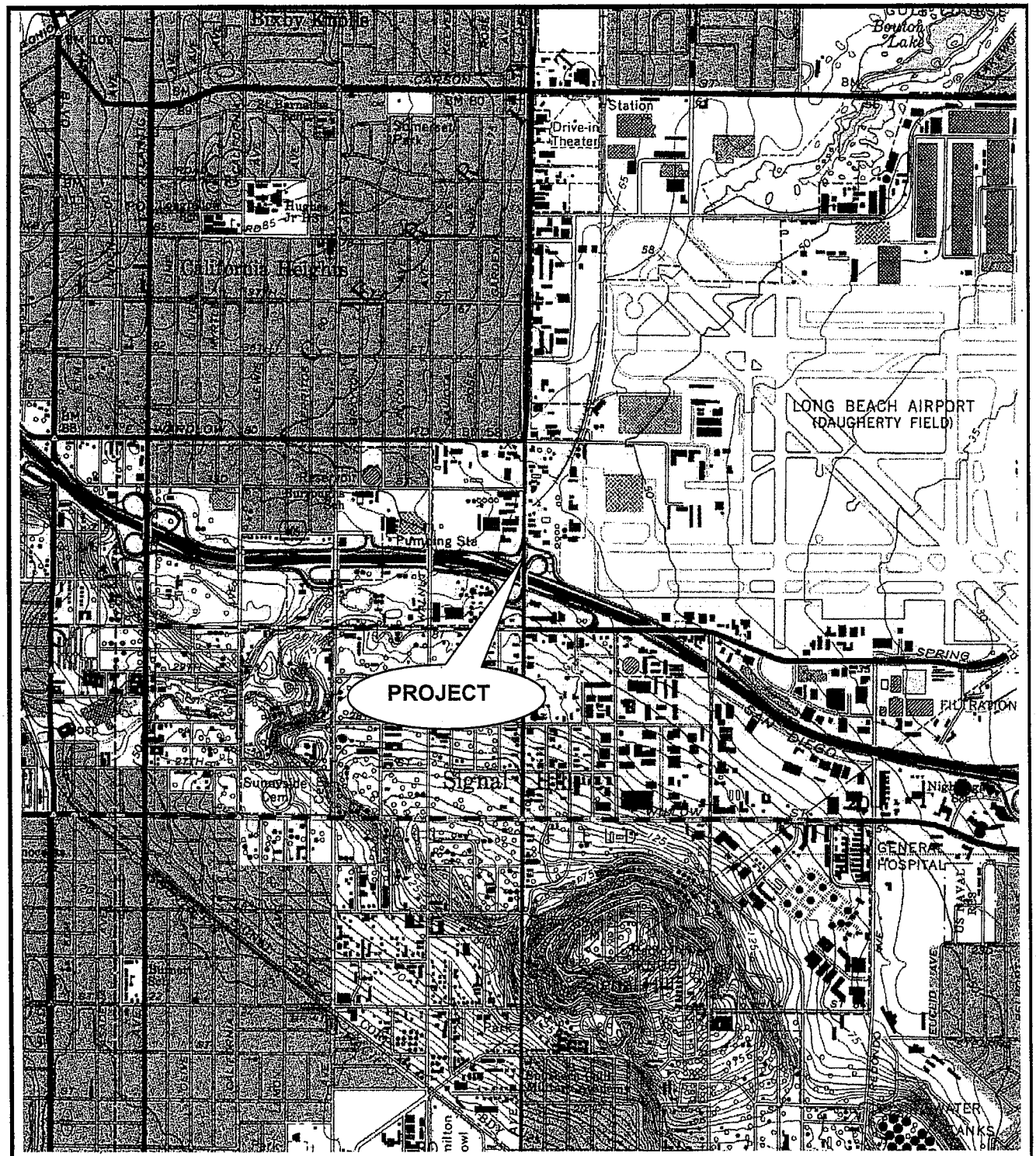
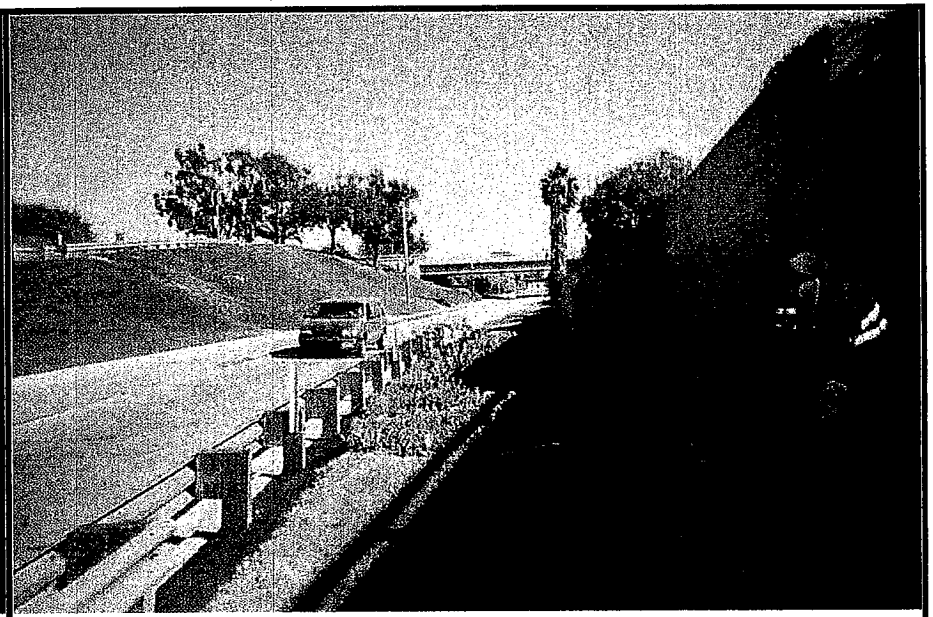
APPENDIX A
SITE PHOTOGRAPHS AND MAPS



DIAZ YOURMAN & ASSOCIATES 1616 E. SEVENTEENTH ST. SANTA ANA, CA 92705 PROJECT NO. 220-05	**TOPOGRAPHIC MAP- FLOWER ST. / USC** Cherry Avenue / 405 Freeway Interchange USGS Hollywood, CA 7.5 Quad., 1964, revised 1981	↑N



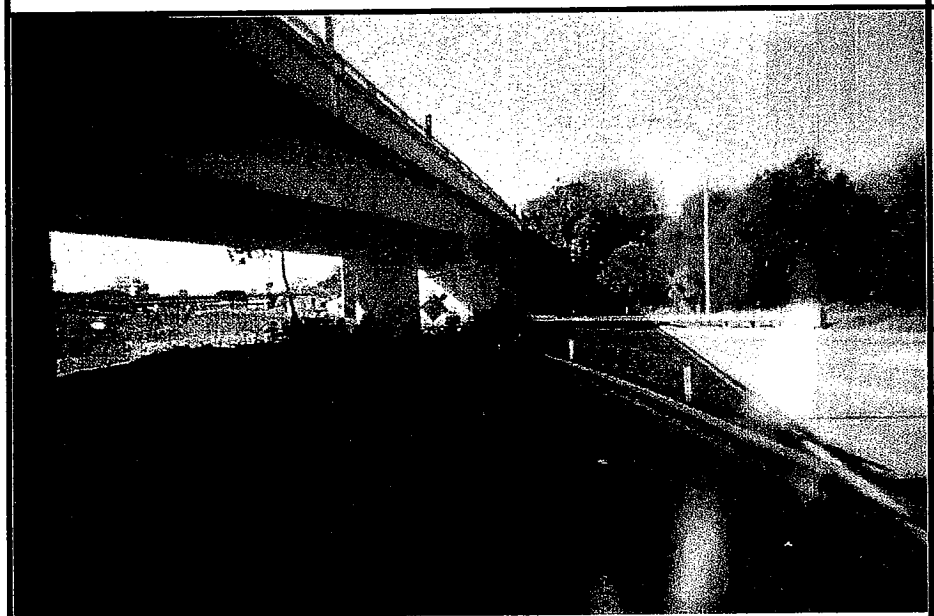


Photo 1:

View from the south of Boring Location CAB-1.

Photo 2:

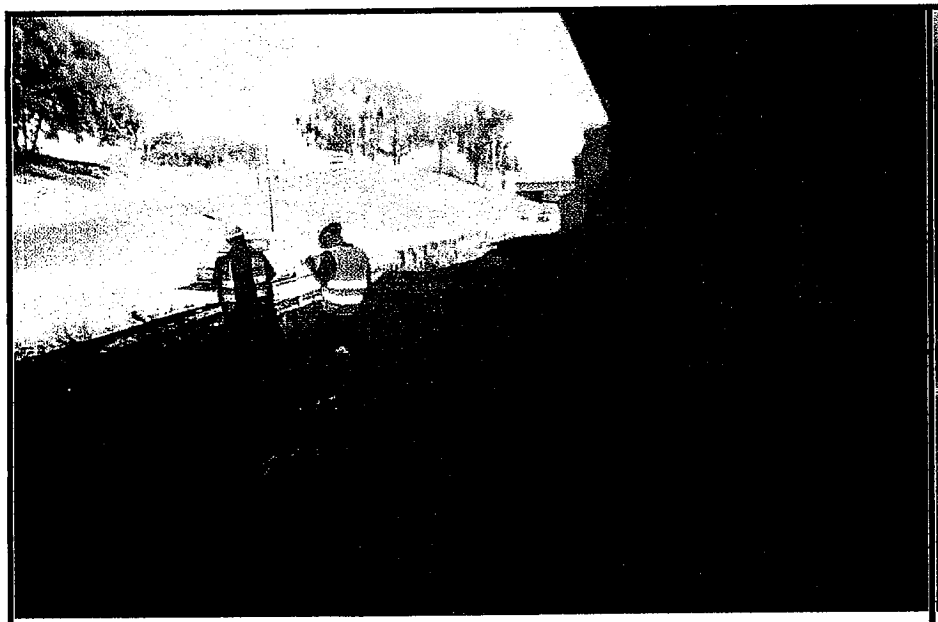
View from the west of Boring Location CAB-2.

Photo 3:

View from the east of Boring Location CAB-3.

Phase II Environmental Investigation
Aerially Deposited Lead (ADL) Study
North-Bound Collector Ramp
Cherry Avenue at I-405
Long Beach, California

Diaz Yourman Associates No. 2008-026
Photo date: October 14, 2008



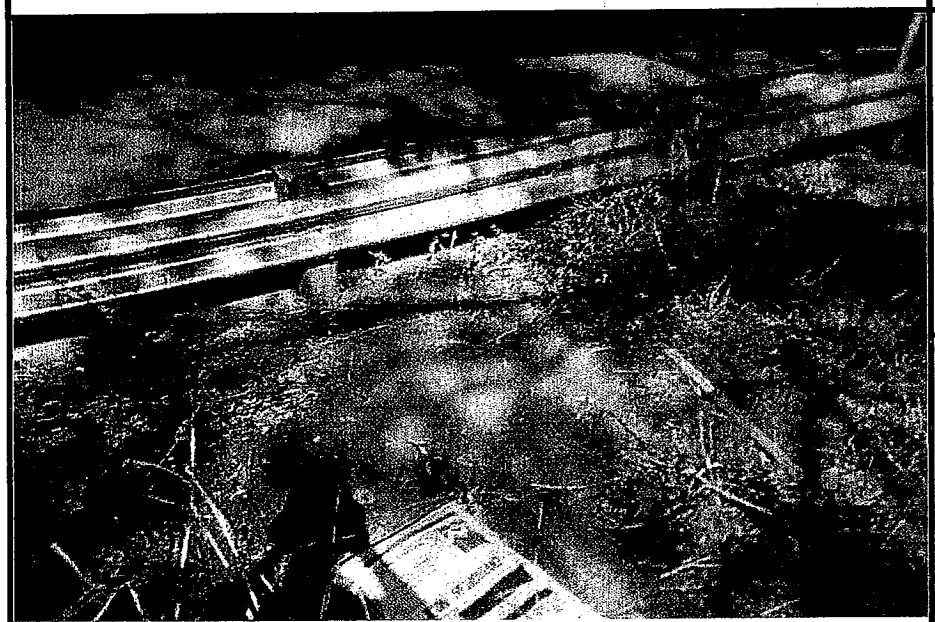


Photo 4:

View from the west of Boring Location CAB-3.

Photo 5:

View from the west of Boring Location CAB-4.

Photo 6:

View from the south of Boring Location CAB-4.

Phase II Environmental Investigation
Aerially Deposited Lead (ADL) Study
North-Bound Collector Ramp
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Diaz Yourman Associates No. 2008-026
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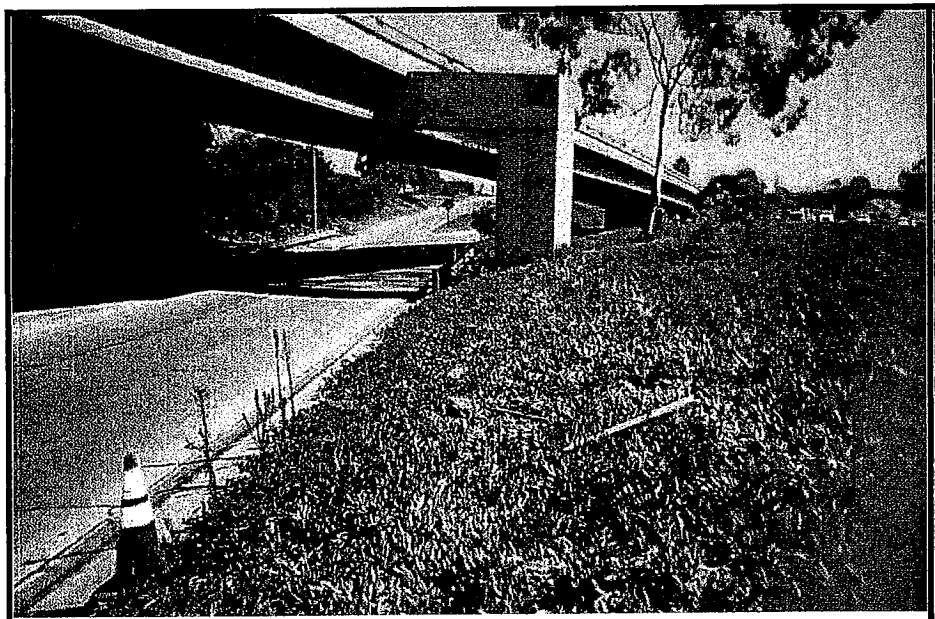


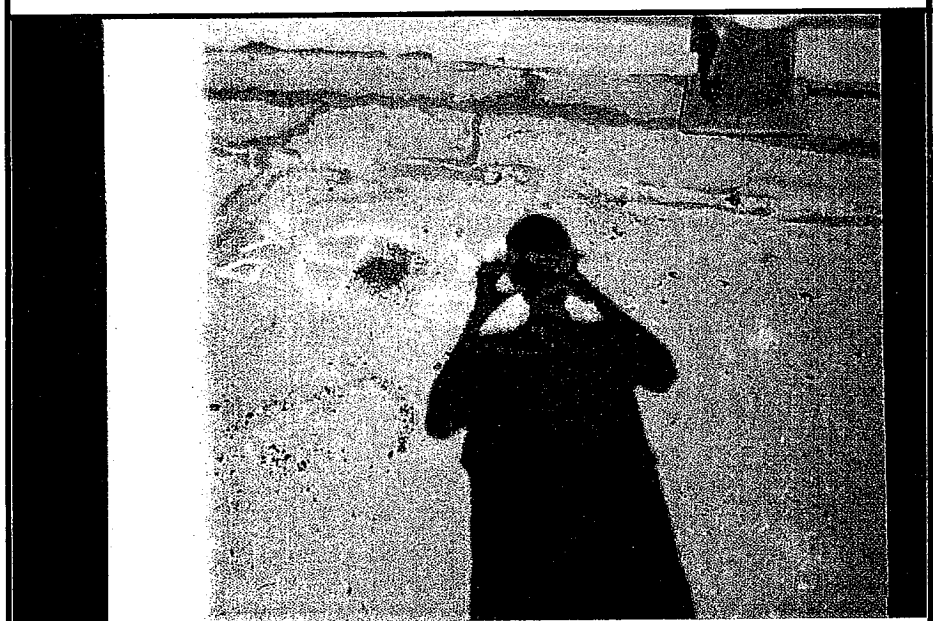


Photo 7:

View from the west of Boring Location CAB-5.

Photo 8:

View from the north of Boring Location CAB-5.

Photo 9:

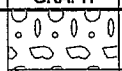
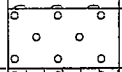
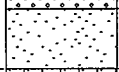
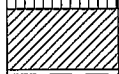
View from the south of Boring Location CAB-6.

Phase II Environmental Investigation
Aerially Deposited Lead (ADL) Study
North-Bound Collector Ramp
Cherry Avenue at I-405
Long Beach, California

Diaz Yourman Associates No. 2008-026
Photo date: October 14, 2008

APPENDIX B
BORING LOGS

SOIL CLASSIFICATION SYSTEM-ASTM D2487

MAJOR DIVISIONS			SYMBOLS GRAPH	SYMBOLS LETTER	TYPICAL DESCRIPTIONS
COARSE-GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
				GP	POORLY GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
	MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	SAND AND SANDY SOILS	CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
				SP	POORLY GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES
	MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND - SILT MIXTURES
				SC	CLAYEY SANDS, SAND - CLAY MIXTURES
FINE-GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

 "Push" Sampler

 Split Barrel "Drive" Sampler With Liner

 Standard Penetration Test (SPT) Sampler

 Bag Sample

 Concrete/Rock Core

 Groundwater Surface

SPT "N" = 0.65 x modified California blows per foot

NP = Nonplastic
EI = Expansion Index Test
SG = Specific Gravity
SE = Sand Equivalent
UC = Unconfined Comp.
CD = Consol. Drained Triaxial.
CU = Consol. Undrained Triaxial.
UU = Undrained, Unconsol. Triaxial.
RV = R-Value
CA = Chemical Analysis
DS = Direct Shear
CN = Consolidation
CP = Collapse Potential
SA = Grain size; HD = Hydrometer
MD = Compaction Test
HC = Hydraulic Conductivity Test
[PID] Reading in ppm above background

Caltrans Cherry Avenue Phase II Investigation
Project No. 2008-026

PLATE
B1

Template: DYLG1-2006; Prj ID: 2008-026.GPJ

BORING LOCATION:	See Figure 2	**ELEVATION AND DATUM (feet):**	39 MSL
LATITUDE:	33° 48' 51.3" N	**LONGITUDE:**	118° 10' 7.2" W
DRILLING EQUIPMENT:		**DRILLING METHOD:**	Hand Auger
BORING DIAMETER (inches):	4	**BORING DEPTH (feet):**	5.5
DATE STARTED:	10/14/08	**DATE COMPLETED:**	10/14/08
SPT HAMMER DROP:	30 inches **WT:** 140 lbs	**DRIVE HAMMER DROP:**	inches **WT:** lbs
LOGGED BY:	WKD **CHECKED BY:** CI	**DRIVE SAMPLER DIAMETER (inches)**	**ID:** 2.4 **OD:** 3

Elevation (feet)	Depth (feet)	Sampler	Symbol	Blows per 6 Inches	SPT N Blows per Foot	Field Unc. Comp. Str. (tsf)	DESCRIPTION	Dry Density (pcf)	Moisture Content (%)	Liquid Limit (%)	Plasticity Index (%)	Percent Passing #200 Sieve	Other Tests [PID]
							ASPHALT CONCRETE (AC)						[0]
							SILTY SAND (SM): brown, moist, fine- to medium-grained sand						[0]
													[0]
													[0]
35													
	5												[0]
							Bottom of boring at 5.5 feet. Groundwater not encountered during drilling. Boring backfilled with bentonite chips to 1 foot bgs, then to surface with cuttings.						
30													
	10												
25													

LOG OF BORING CAB-1

Page 1 of 1

Caltrans Cherry Avenue Phase II Investigation

Project No. 2008-026

PLATE

B2

Template: DYLG1-2006; Prj ID: 2008-026.GPJ

BORING LOCATION: See Figure 2	**ELEVATION AND DATUM (feet):** 43 MSL
LATITUDE: 33° 48' 51.5" N	**LONGITUDE:** 118° 10' 8.4" W
DRILLING EQUIPMENT:	**DRILLING METHOD:** Hand Auger
BORING DIAMETER (inches): 4	**BORING DEPTH (feet):** 5.5
DATE STARTED: 10/14/08	**DATE COMPLETED:** 10/14/08
SPT HAMMER DROP: 30 inches **WT:** 140 lbs	**DRIVE HAMMER DROP:** inches **WT:** lbs
LOGGED BY: WKD **CHECKED BY:** CI	**DRIVE SAMPLER DIAMETER (inches)** **ID:** 2.4 **OD:** 3

Elevation (feet)	Depth (feet)	Sampler	Symbol	Blows per 6 Inches	SPT N Blows per Foot	Field Unc. Comp. Str. (tsf)	DESCRIPTION	Dry Density (pcf)	Moisture Content (%)	Liquid Limit (%)	Plasticity Index (%)	Percent Passing #200 Sieve	Other Tests [PID]
40	0						SILTY SAND (SM): brown, dry, fine- to medium-grained sand						[0]
							moist						[0]
													[0]
	5												[0]
35							Bottom of boring at 5.5 feet. Groundwater not encountered during drilling. Boring backfilled with bentonite chips to 1 foot bgs, then to surface with cuttings.						
	10												
30													

LOG OF BORING CAB-2

Page 1 of 1

Caltrans Cherry Avenue Phase II Investigation

Project No. 2008-026

PLATE

B3

Template: DYLG1-2006; Prj ID: 2008-026.GPJ

BORING LOCATION:	See Figure 2	**ELEVATION AND DATUM (feet):**	43 MSL
LATITUDE:	33° 48' 51.7" N	**LONGITUDE:**	118° 10' 9.1" W
DRILLING EQUIPMENT:		**DRILLING METHOD:**	Hand Auger
BORING DIAMETER (inches):	4	**BORING DEPTH (feet):**	5.5
DATE STARTED:	10/14/08	**DATE COMPLETED:**	10/14/08
SPT HAMMER DROP:	30 inches **WT:** 140 lbs	**DRIVE HAMMER DROP:**	inches **WT:** lbs
LOGGED BY:	WKD **CHECKED BY:** CI	**DRIVE SAMPLER DIAMETER (inches)**	**ID:** 2.4 **OD:** 3

Elevation (feet)	Depth (feet)	Sampler	Symbol	Blows per 6 Inches	SPT N Blows per Foot	Field Unc. Comp. Str. (tsf)	DESCRIPTION	Dry Density (pcf)	Moisture Content (%)	Liquid Limit (%)	Plasticity Index (%)	Percent Passing #200 Sieve	Other Tests [PID]
40	0						SILTY SAND (SM): brown, dry, fine- to medium-grained sand						[0]
							moist						[0]
													[0]
	5												[0]
							Bottom of boring at 5.5 feet. Groundwater not encountered during drilling. Boring backfilled with bentonite chips to 1 foot bgs, then to surface with cuttings.						
35													
	10												
30													

LOG OF BORING CAB-3

Page 1 of 1

Caltrans Cherry Avenue Phase II Investigation

Project No. 2008-026

PLATE

B4

Template: DYLG1-2006; Prj ID: 2008-026.GPJ

BORING LOCATION: See Figure 2	**ELEVATION AND DATUM (feet):** 43 MSL
LATITUDE: 33° 48' 51.6" N	**LONGITUDE:** 118° 10' 10.6" W
DRILLING EQUIPMENT:	**DRILLING METHOD:** Hand Auger
BORING DIAMETER (inches): 4	**BORING DEPTH (feet):** 5.5
DATE STARTED: 10/14/08	**DATE COMPLETED:** 10/14/08
SPT HAMMER DROP: 30 inches **WT:** 140 lbs	**DRIVE HAMMER DROP:** inches **WT:** lbs
LOGGED BY: WKD **CHECKED BY:** CI	**DRIVE SAMPLER DIAMETER (inches)** **ID:** 2.4 **OD:** 3

Elevation (feet)	Depth (feet)	Sampler	Symbol	Blows per 6 Inches	SPT N Blows per Foot	Field Unc. Comp. Str. (tsf)	DESCRIPTION	Dry Density (pcf)	Moisture Content (%)	Liquid Limit (%)	Plasticity Index (%)	Percent Passing #200 Sieve	Other Tests [PID]
40	0						SILTY SAND (SM): brown, dry, fine- to medium-grained sand						[0]
							moist						[0]
													[0]
													[0]
	5												[0]
							Bottom of boring at 5.5 feet. Groundwater not encountered during drilling. Boring backfilled with bentonite chips to 1 foot bgs, then to surface with cuttings.						
35													
	10												
30													

LOG OF BORING CAB-4

Caltrans Cherry Avenue Phase II Investigation

Project No. 2008-026

PLATE

B5

Template: DYLG1-2006; Prj ID: 2008-026.GPJ

BORING LOCATION:	See Figure 2	**ELEVATION AND DATUM (feet):**	46 MSL
LATITUDE:	33° 48' 51.9" N	**LONGITUDE:**	118° 10' 11.7" W
DRILLING EQUIPMENT:		**DRILLING METHOD:**	Hand Auger
BORING DIAMETER (inches):	4	**BORING DEPTH (feet):**	5.5
DATE STARTED:	10/14/08	**DATE COMPLETED:**	10/14/08
SPT HAMMER DROP: 30 inches	**WT:** 140 lbs	**DRIVE HAMMER DROP:** inches	**WT:** lbs
LOGGED BY: WKD	**CHECKED BY:** CI	**DRIVE SAMPLER DIAMETER (inches)**	**ID:** 2.4 **OD:** 3

Elevation (feet)	Depth (feet)	Sampler	Symbol	Blows per 6 Inches	SPT N Blows per Foot	Field Unc. Comp. Str. (tsf)	DESCRIPTION	Dry Density (pcf)	Moisture Content (%)	Liquid Limit (%)	Plasticity Index (%)	Percent Passing #200 Sieve	Other Tests [PID]
45	0						POORLY GRADED SAND with SILT (SP-SM): brown, dry, fine-grained sand						[0]
							moist						[0]
													[0]
													[0]
	5						SILTY CLAY (CL-ML): brown, moist						[0]
40							Bottom of boring at 5.5 feet. Groundwater not encountered during drilling. Boring backfilled with bentonite chips to 1 foot bgs, then to surface with cuttings.						
	10												
35													

LOG OF BORING CAB-5

Page 1 of 1

Caltrans Cherry Avenue Phase II Investigation

Project No. 2008-026

PLATE

B6

Template: DYLG1-2006; Prj ID: 2008-026.GPJ

BORING LOCATION:	See Figure 2	**ELEVATION AND DATUM (feet):**	46 MSL
LATITUDE:	33° 48' 52.1" N	**LONGITUDE:**	118° 10' 13.1" W
DRILLING EQUIPMENT:		**DRILLING METHOD:**	Hand Auger
BORING DIAMETER (inches):	4	**BORING DEPTH (feet):**	5.5
DATE STARTED:	10/14/08	**DATE COMPLETED:**	10/14/08
SPT HAMMER DROP:	30 inches **WT:** 140 lbs	**DRIVE HAMMER DROP:**	inches **WT:** lbs
LOGGED BY:	WKD **CHECKED BY:** CI	**DRIVE SAMPLER DIAMETER (inches)**	**ID:** 2.4 **OD:** 3

Elevation (feet)	Depth (feet)	Sampler	Symbol	Blows per 6 Inches	SPT N Blows per Foot	Field Unc. Comp. Str. (tsf)	DESCRIPTION	Dry Density (pcf)	Moisture Content (%)	Liquid Limit (%)	Plasticity Index (%)	Percent Passing #200 Sieve	Other Tests [PID]
							ASPHALT CONCRETE (AC)						[0]
45							SILTY SAND (SM): brown, moist, fine-grained sand						[0]
													[0]
	5												[12]
40							Bottom of boring at 5.5 feet. Groundwater not encountered during drilling. Boring backfilled with bentonite chips to 1 foot bgs, then to surface with cuttings.						
	10												
35													

LOG OF BORING CAB-6

Caltrans Cherry Avenue Phase II Investigation

Project No. 2008-026

PLATE

B7

APPENDIX C
LABORATORY ANALYSES REPORTS

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

LABORATORY REPORT

Prepared For: Diaz Yourman
1616 East 17th Street
Santa Ana, CA 92705-8509
Attention: Gary Gilbert

Project: Cherry Ave / 2008-026
Cherry Ave / 2008-026

Sampled: 10/14/08
Received: 10/14/08
Issued: 10/24/08 17:18

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain(s) of Custody, 3 pages, are included and are an integral part of this report.
This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID	CLIENT ID	MATRIX
IRJ1808-01	B-1@0'	Soil
IRJ1808-02	B-1@1'	Soil
IRJ1808-03	B-1@2'	Soil
IRJ1808-04	B-1@3'	Soil
IRJ1808-05	B-1@5'	Soil
IRJ1808-06	B-2@0'	Soil
IRJ1808-07	B-2@1'	Soil
IRJ1808-08	B-2@2'	Soil
IRJ1808-09	B-2@5'	Soil
IRJ1808-10	B-3@0'	Soil
IRJ1808-11	B-3@1'	Soil
IRJ1808-12	B-3@2'	Soil
IRJ1808-13	B-3@5'	Soil
IRJ1808-14	B-4@0'	Soil
IRJ1808-15	B-4@1'	Soil
IRJ1808-16	B-4@2'	Soil
IRJ1808-17	B-4@3'	Soil
IRJ1808-18	B-4@5'	Soil
IRJ1808-19	B-5@0'	Soil
IRJ1808-20	B-5@1'	Soil
IRJ1808-21	B-5@2'	Soil
IRJ1808-22	B-5@3'	Soil
IRJ1808-23	B-5@5'	Soil

TestAmerica Irvine

Lena Davidkova
Project Manager

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Attention: Gary Gilbert

Project ID: Cherry Ave / 2008-026
Cherry Ave / 2008-026
Report Number: IRJ1808

Sampled: 10/14/08
Received: 10/14/08

LABORATORY ID	CLIENT ID	MATRIX
IRJ1808-28	B-7@0'	Soil
IRJ1808-29	B-7@1'	Soil
IRJ1808-30	B-7@2'	Soil
IRJ1808-31	B-7@3'	Soil
IRJ1808-32	B-7@5'	Soil
IRJ1808-33	EB-1	Water
IRJ1808-34	EB-2	Water
IRJ1808-35	Trip Blank	Water

Reviewed By:

TestAmerica Irvine

Lena Davidkova
Project Manager

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1616 East 17th Street
Santa Ana, CA 92705-8509
Attention: Gary Gilbert

Project ID: Cherry Ave / 2008-026
Cherry Ave / 2008-026
Report Number: IRJ1808

Sampled: 10/14/08
Received: 10/14/08

EXTRACTABLE FUEL HYDROCARBONS (CADHS/8015 Modified)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1808-04 (B-1@3' - Soil)								
Reporting Units: mg/kg								
DRO (C13 - C28)	EPA 8015B MOD.	8J17138	10	**12**	2	10/18/2008	10/20/2008	
ORO (C29-C40)	EPA 8015B MOD.	8J17138	10	**14**	2	10/18/2008	10/20/2008	
EFH (C13 - C40)	EPA 8015B MOD.	8J17138	10	**26**	2	10/18/2008	10/20/2008	
Surrogate: n-Octacosane (40-125%)				*79 %*				
Sample ID: IRJ1808-17 (B-4@3' - Soil)								
Reporting Units: mg/kg								
DRO (C13 - C28)	EPA 8015B MOD.	8J17138	10	**38**	2	10/18/2008	10/21/2008	
ORO (C29-C40)	EPA 8015B MOD.	8J17138	10	**43**	2	10/18/2008	10/21/2008	
EFH (C13 - C40)	EPA 8015B MOD.	8J17138	10	**81**	2	10/18/2008	10/21/2008	
Surrogate: n-Octacosane (40-125%)				*118 %*				
Sample ID: IRJ1808-31 (B-7@3' - Soil)								
Reporting Units: mg/kg								
DRO (C13 - C28)	EPA 8015B MOD.	8J17138	10	**44**	2	10/18/2008	10/21/2008	
ORO (C29-C40)	EPA 8015B MOD.	8J17138	10	**61**	2	10/18/2008	10/21/2008	
EFH (C13 - C40)	EPA 8015B MOD.	8J17138	10	**110**	2	10/18/2008	10/21/2008	
Surrogate: n-Octacosane (40-125%)				*124 %*				

TestAmerica Irvine

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Project ID: Cherry Ave / 2008-026
Cherry Ave / 2008-026
Report Number: IRJ1808

Sampled: 10/14/08
Received: 10/14/08

EXTRACTABLE FUEL HYDROCARBONS (EPA 8015 CADHS Modified)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1808-33 (EB-1 - Water)								**RL4**
Reporting Units: mg/l								
DRO (C13 - C28)	EPA 8015B MOD.	8J18043	0.62	ND	1.25	10/18/2008	10/20/2008	
ORO (C29-C40)	EPA 8015B MOD.	8J18043	0.62	ND	1.25	10/18/2008	10/20/2008	
EFH (C13 - C40)	EPA 8015B MOD.	8J18043	0.62	ND	1.25	10/18/2008	10/20/2008	
Surrogate: n-Octacosane (40-125%)				*72 %*				
Sample ID: IRJ1808-34 (EB-2 - Water)								
Reporting Units: mg/l								
DRO (C13 - C28)	EPA 8015B MOD.	8J18043	0.47	ND	0.943	10/18/2008	10/20/2008	
ORO (C29-C40)	EPA 8015B MOD.	8J18043	0.47	ND	0.943	10/18/2008	10/20/2008	
EFH (C13 - C40)	EPA 8015B MOD.	8J18043	0.47	ND	0.943	10/18/2008	10/20/2008	
Surrogate: n-Octacosane (40-125%)				*81 %*				

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Project ID: Cherry Ave / 2008-026
Cherry Ave / 2008-026
Report Number: IRJ1808

Sampled: 10/14/08
Received: 10/14/08

VOLATILE FUEL HYDROCARBONS (EPA 5030/CADHS Mod. 8015)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1808-04 (B-1@3' - Soil)								
Reporting Units: mg/kg								
Volatile Fuel Hydrocarbons (C6-C12)	EPA 8015 Mod.	8J18002	0.40	ND	0.99	10/18/2008	10/18/2008	
Surrogate: 4-BFB (FID) (65-140%)				*86 %*				
Sample ID: IRJ1808-17 (B-4@3' - Soil)								
Reporting Units: mg/kg								
Volatile Fuel Hydrocarbons (C6-C12)	EPA 8015 Mod.	8J18002	0.40	ND	1	10/18/2008	10/18/2008	
Surrogate: 4-BFB (FID) (65-140%)				*89 %*				
Sample ID: IRJ1808-31 (B-7@3' - Soil)								
Reporting Units: mg/kg								
Volatile Fuel Hydrocarbons (C6-C12)	EPA 8015 Mod.	8J18002	0.39	ND	0.984	10/18/2008	10/18/2008	
Surrogate: 4-BFB (FID) (65-140%)				*87 %*				
Sample ID: IRJ1808-33 (EB-1 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C6-C12)	EPA 8015 Mod.	8J22038	50	ND	1	10/22/2008	10/22/2008	
Surrogate: 4-BFB (FID) (65-140%)				*82 %*				
Sample ID: IRJ1808-34 (EB-2 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C6-C12)	EPA 8015 Mod.	8J22038	50	ND	1	10/22/2008	10/22/2008	
Surrogate: 4-BFB (FID) (65-140%)				*81 %*				

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Attention: Gary Gilbert

Project ID: Cherry Ave / 2008-026
Cherry Ave / 2008-026
Report Number: IRJ1808

Sampled: 10/14/08
Received: 10/14/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1808-33 (EB-1 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Bromobenzene	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
Bromochloromethane	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
Bromodichloromethane	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Bromoform	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
Bromomethane	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
n-Butylbenzene	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
tert-Butylbenzene	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
sec-Butylbenzene	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
Carbon tetrachloride	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
Chlorobenzene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Chloroethane	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
Chloroform	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Chloromethane	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
4-Chlorotoluene	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
2-Chlorotoluene	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
1,2-Dibromo-3-chloropropane	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
Dibromochloromethane	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
1,2-Dibromoethane (EDB)	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Dibromomethane	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
1,2-Dichlorobenzene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
1,3-Dichlorobenzene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
1,4-Dichlorobenzene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Dichlorodifluoromethane	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
1,1-Dichloroethane	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
1,2-Dichloroethane	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
1,1-Dichloroethene	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
cis-1,2-Dichloroethene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
trans-1,2-Dichloroethene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
1,3-Dichloropropane	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
2,2-Dichloropropane	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
1,2-Dichloropropane	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
cis-1,3-Dichloropropene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
trans-1,3-Dichloropropene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
1,1-Dichloropropene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Ethylbenzene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Hexachlorobutadiene	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
Isopropylbenzene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
p-Isopropyltoluene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Methylene chloride	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
Naphthalene	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	

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Project ID: Cherry Ave / 2008-026
Cherry Ave / 2008-026
Report Number: IRJ1808

Sampled: 10/14/08
Received: 10/14/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1808-33 (EB-1 - Water) - cont.								
Reporting Units: ug/l								
n-Propylbenzene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Styrene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
1,1,1,2-Tetrachloroethane	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
1,1,2,2-Tetrachloroethane	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Tetrachloroethene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Toluene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
1,2,3-Trichlorobenzene	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
1,2,4-Trichlorobenzene	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
1,1,1-Trichloroethane	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
1,1,2-Trichloroethane	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Trichloroethene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Trichlorofluoromethane	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
1,2,3-Trichloropropane	EPA 8260B	8J19015	10	ND	1	10/19/2008	10/19/2008	
1,2,4-Trimethylbenzene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
1,3,5-Trimethylbenzene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Vinyl chloride	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
m,p-Xylenes	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
o-Xylene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Surrogate: 4-Bromofluorobenzene (80-120%)				*87 %*				
Surrogate: Dibromofluoromethane (80-120%)				*89 %*				
Surrogate: Toluene-d8 (80-120%)				*90 %*				

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Report Number: IRJ1808

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Received: 10/14/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1808-34 (EB-2 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Bromobenzene	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
Bromochloromethane	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
Bromodichloromethane	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Bromoform	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
Bromomethane	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
n-Butylbenzene	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
tert-Butylbenzene	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
sec-Butylbenzene	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
Carbon tetrachloride	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
Chlorobenzene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Chloroethane	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
Chloroform	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Chloromethane	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
4-Chlorotoluene	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
2-Chlorotoluene	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
1,2-Dibromo-3-chloropropane	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
Dibromochloromethane	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
1,2-Dibromoethane (EDB)	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Dibromomethane	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
1,2-Dichlorobenzene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
1,3-Dichlorobenzene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
1,4-Dichlorobenzene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Dichlorodifluoromethane	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
1,1-Dichloroethane	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
1,2-Dichloroethane	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
1,1-Dichloroethene	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
cis-1,2-Dichloroethene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
trans-1,2-Dichloroethene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
1,3-Dichloropropane	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
2,2-Dichloropropane	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
1,2-Dichloropropane	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
cis-1,3-Dichloropropene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
trans-1,3-Dichloropropene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
1,1-Dichloropropene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Ethylbenzene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Hexachlorobutadiene	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
Isopropylbenzene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
p-Isopropyltoluene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Methylene chloride	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
Naphthalene	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1808-34 (EB-2 - Water) - cont.								
Reporting Units: ug/l								
n-Propylbenzene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Styrene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
1,1,1,2-Tetrachloroethane	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
1,1,2,2-Tetrachloroethane	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Tetrachloroethene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Toluene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
1,2,3-Trichlorobenzene	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
1,2,4-Trichlorobenzene	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
1,1,1-Trichloroethane	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
1,1,2-Trichloroethane	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Trichloroethene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Trichlorofluoromethane	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
1,2,3-Trichloropropane	EPA 8260B	8J19015	10	ND	1	10/19/2008	10/19/2008	
1,2,4-Trimethylbenzene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
1,3,5-Trimethylbenzene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Vinyl chloride	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
m,p-Xylenes	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
o-Xylene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Surrogate: 4-Bromofluorobenzene (80-120%)				*87 %*				
Surrogate: Dibromofluoromethane (80-120%)				*89 %*				
Surrogate: Toluene-d8 (80-120%)				*90 %*				

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Sampled: 10/14/08
Received: 10/14/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1808-35 (Trip Blank - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Bromobenzene	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
Bromochloromethane	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
Bromodichloromethane	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Bromoform	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
Bromomethane	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
n-Butylbenzene	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
tert-Butylbenzene	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
sec-Butylbenzene	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
Carbon tetrachloride	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
Chlorobenzene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Chloroethane	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
Chloroform	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Chloromethane	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
4-Chlorotoluene	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
2-Chlorotoluene	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
1,2-Dibromo-3-chloropropane	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
Dibromochloromethane	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
1,2-Dibromoethane (EDB)	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Dibromomethane	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
1,2-Dichlorobenzene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
1,3-Dichlorobenzene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
1,4-Dichlorobenzene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Dichlorodifluoromethane	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
1,1-Dichloroethane	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
1,2-Dichloroethane	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
1,1-Dichloroethene	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
cis-1,2-Dichloroethene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
trans-1,2-Dichloroethene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
1,3-Dichloropropane	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
2,2-Dichloropropane	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
1,2-Dichloropropane	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
cis-1,3-Dichloropropene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
trans-1,3-Dichloropropene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
1,1-Dichloropropene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Ethylbenzene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Hexachlorobutadiene	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
Isopropylbenzene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
p-Isopropyltoluene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Methylene chloride	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
Naphthalene	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1808-35 (Trip Blank - Water) - cont.								
Reporting Units: ug/l								
n-Propylbenzene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Styrene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
1,1,1,2-Tetrachloroethane	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
1,1,2,2-Tetrachloroethane	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Tetrachloroethene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Toluene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
1,2,3-Trichlorobenzene	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
1,2,4-Trichlorobenzene	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
1,1,1-Trichloroethane	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
1,1,2-Trichloroethane	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Trichloroethene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Trichlorofluoromethane	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
1,2,3-Trichloropropane	EPA 8260B	8J19015	10	ND	1	10/19/2008	10/19/2008	
1,2,4-Trimethylbenzene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
1,3,5-Trimethylbenzene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Vinyl chloride	EPA 8260B	8J19015	5.0	ND	1	10/19/2008	10/19/2008	
m,p-Xylenes	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
o-Xylene	EPA 8260B	8J19015	2.0	ND	1	10/19/2008	10/19/2008	
Surrogate: 4-Bromofluorobenzene (80-120%)				*87 %*				
Surrogate: Dibromofluoromethane (80-120%)				*91 %*				
Surrogate: Toluene-d8 (80-120%)				*90 %*				

TestAmerica Irvine

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Attention: Gary Gilbert

Project ID: Cherry Ave / 2008-026
Cherry Ave / 2008-026
Report Number: IRJ1808

Sampled: 10/14/08
Received: 10/14/08

VOLATILE ORGANICS by GC/MS (EPA 5035/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1808-04 (B-1@3' - Soil)								
Reporting Units: ug/kg								
Benzene	EPA 8260B	8J19012	2.0	ND	0.982	10/19/2008	10/19/2008	
Bromobenzene	EPA 8260B	8J19012	4.9	ND	0.982	10/19/2008	10/19/2008	
Bromochloromethane	EPA 8260B	8J19012	4.9	ND	0.982	10/19/2008	10/19/2008	
Bromodichloromethane	EPA 8260B	8J19012	2.0	ND	0.982	10/19/2008	10/19/2008	
Bromoform	EPA 8260B	8J19012	4.9	ND	0.982	10/19/2008	10/19/2008	
Bromomethane	EPA 8260B	8J19012	4.9	ND	0.982	10/19/2008	10/19/2008	
n-Butylbenzene	EPA 8260B	8J19012	4.9	ND	0.982	10/19/2008	10/19/2008	
tert-Butylbenzene	EPA 8260B	8J19012	4.9	ND	0.982	10/19/2008	10/19/2008	
sec-Butylbenzene	EPA 8260B	8J19012	4.9	ND	0.982	10/19/2008	10/19/2008	
Carbon tetrachloride	EPA 8260B	8J19012	4.9	ND	0.982	10/19/2008	10/19/2008	
Chlorobenzene	EPA 8260B	8J19012	2.0	ND	0.982	10/19/2008	10/19/2008	
Chloroethane	EPA 8260B	8J19012	4.9	ND	0.982	10/19/2008	10/19/2008	
Chloroform	EPA 8260B	8J19012	2.0	ND	0.982	10/19/2008	10/19/2008	
Chloromethane	EPA 8260B	8J19012	4.9	ND	0.982	10/19/2008	10/19/2008	
4-Chlorotoluene	EPA 8260B	8J19012	4.9	ND	0.982	10/19/2008	10/19/2008	
2-Chlorotoluene	EPA 8260B	8J19012	4.9	ND	0.982	10/19/2008	10/19/2008	
1,2-Dibromo-3-chloropropane	EPA 8260B	8J19012	4.9	ND	0.982	10/19/2008	10/19/2008	
Dibromochloromethane	EPA 8260B	8J19012	2.0	ND	0.982	10/19/2008	10/19/2008	
1,2-Dibromoethane (EDB)	EPA 8260B	8J19012	2.0	ND	0.982	10/19/2008	10/19/2008	
Dibromomethane	EPA 8260B	8J19012	2.0	ND	0.982	10/19/2008	10/19/2008	
1,2-Dichlorobenzene	EPA 8260B	8J19012	2.0	ND	0.982	10/19/2008	10/19/2008	
1,3-Dichlorobenzene	EPA 8260B	8J19012	2.0	ND	0.982	10/19/2008	10/19/2008	
1,4-Dichlorobenzene	EPA 8260B	8J19012	2.0	ND	0.982	10/19/2008	10/19/2008	
Dichlorodifluoromethane	EPA 8260B	8J19012	4.9	ND	0.982	10/19/2008	10/19/2008	
1,1-Dichloroethane	EPA 8260B	8J19012	2.0	ND	0.982	10/19/2008	10/19/2008	
1,2-Dichloroethane	EPA 8260B	8J19012	2.0	ND	0.982	10/19/2008	10/19/2008	
1,1-Dichloroethene	EPA 8260B	8J19012	4.9	ND	0.982	10/19/2008	10/19/2008	
cis-1,2-Dichloroethene	EPA 8260B	8J19012	2.0	ND	0.982	10/19/2008	10/19/2008	
trans-1,2-Dichloroethene	EPA 8260B	8J19012	2.0	ND	0.982	10/19/2008	10/19/2008	
1,3-Dichloropropane	EPA 8260B	8J19012	2.0	ND	0.982	10/19/2008	10/19/2008	
2,2-Dichloropropane	EPA 8260B	8J19012	2.0	ND	0.982	10/19/2008	10/19/2008	
1,2-Dichloropropane	EPA 8260B	8J19012	2.0	ND	0.982	10/19/2008	10/19/2008	
cis-1,3-Dichloropropene	EPA 8260B	8J19012	2.0	ND	0.982	10/19/2008	10/19/2008	L
trans-1,3-Dichloropropene	EPA 8260B	8J19012	2.0	ND	0.982	10/19/2008	10/19/2008	
1,1-Dichloropropene	EPA 8260B	8J19012	2.0	ND	0.982	10/19/2008	10/19/2008	
Ethylbenzene	EPA 8260B	8J19012	2.0	ND	0.982	10/19/2008	10/19/2008	
Hexachlorobutadiene	EPA 8260B	8J19012	4.9	ND	0.982	10/19/2008	10/19/2008	
Isopropylbenzene	EPA 8260B	8J19012	2.0	ND	0.982	10/19/2008	10/19/2008	L
p-Isopropyltoluene	EPA 8260B	8J19012	2.0	ND	0.982	10/19/2008	10/19/2008	
Methylene chloride	EPA 8260B	8J19012	20	ND	0.982	10/19/2008	10/19/2008	
Naphthalene	EPA 8260B	8J19012	4.9	ND	0.982	10/19/2008	10/19/2008	

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Project ID: Cherry Ave / 2008-026
Cherry Ave / 2008-026
Report Number: IRJ1808

Sampled: 10/14/08
Received: 10/14/08

VOLATILE ORGANICS by GC/MS (EPA 5035/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1808-04 (B-1@3' - Soil) - cont.								
Reporting Units: ug/kg								
n-Propylbenzene	EPA 8260B	8J19012	2.0	ND	0.982	10/19/2008	10/19/2008	
Styrene	EPA 8260B	8J19012	2.0	ND	0.982	10/19/2008	10/19/2008	
1,1,1,2-Tetrachloroethane	EPA 8260B	8J19012	4.9	ND	0.982	10/19/2008	10/19/2008	
1,1,2,2-Tetrachloroethane	EPA 8260B	8J19012	2.0	ND	0.982	10/19/2008	10/19/2008	
Tetrachloroethene	EPA 8260B	8J19012	2.0	ND	0.982	10/19/2008	10/19/2008	
Toluene	EPA 8260B	8J19012	2.0	ND	0.982	10/19/2008	10/19/2008	
1,2,3-Trichlorobenzene	EPA 8260B	8J19012	4.9	ND	0.982	10/19/2008	10/19/2008	
1,2,4-Trichlorobenzene	EPA 8260B	8J19012	4.9	ND	0.982	10/19/2008	10/19/2008	
1,1,1-Trichloroethane	EPA 8260B	8J19012	2.0	ND	0.982	10/19/2008	10/19/2008	
1,1,2-Trichloroethane	EPA 8260B	8J19012	2.0	ND	0.982	10/19/2008	10/19/2008	
Trichloroethene	EPA 8260B	8J19012	2.0	ND	0.982	10/19/2008	10/19/2008	
Trichlorofluoromethane	EPA 8260B	8J19012	4.9	ND	0.982	10/19/2008	10/19/2008	
1,2,3-Trichloropropane	EPA 8260B	8J19012	9.8	ND	0.982	10/19/2008	10/19/2008	
1,2,4-Trimethylbenzene	EPA 8260B	8J19012	2.0	ND	0.982	10/19/2008	10/19/2008	
1,3,5-Trimethylbenzene	EPA 8260B	8J19012	2.0	ND	0.982	10/19/2008	10/19/2008	
Vinyl chloride	EPA 8260B	8J19012	4.9	ND	0.982	10/19/2008	10/19/2008	
m,p-Xylenes	EPA 8260B	8J19012	2.0	ND	0.982	10/19/2008	10/19/2008	
o-Xylene	EPA 8260B	8J19012	2.0	ND	0.982	10/19/2008	10/19/2008	
Surrogate: 4-Bromofluorobenzene (80-120%)				*93 %*				
Surrogate: Dibromofluoromethane (80-125%)				*102 %*				
Surrogate: Toluene-d8 (80-120%)				*104 %*				

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Project ID: Cherry Ave / 2008-026
Cherry Ave / 2008-026
Report Number: IRJ1808

Sampled: 10/14/08
Received: 10/14/08

VOLATILE ORGANICS by GC/MS (EPA 5035/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1808-17 (B-4@3' - Soil)								
Reporting Units: ug/kg								
Benzene	EPA 8260B	8J19012	2.0	ND	1.02	10/19/2008	10/19/2008	
Bromobenzene	EPA 8260B	8J19012	5.1	ND	1.02	10/19/2008	10/19/2008	
Bromochloromethane	EPA 8260B	8J19012	5.1	ND	1.02	10/19/2008	10/19/2008	
Bromodichloromethane	EPA 8260B	8J19012	2.0	ND	1.02	10/19/2008	10/19/2008	
Bromoform	EPA 8260B	8J19012	5.1	ND	1.02	10/19/2008	10/19/2008	
Bromomethane	EPA 8260B	8J19012	5.1	ND	1.02	10/19/2008	10/19/2008	
n-Butylbenzene	EPA 8260B	8J19012	5.1	ND	1.02	10/19/2008	10/19/2008	
tert-Butylbenzene	EPA 8260B	8J19012	5.1	ND	1.02	10/19/2008	10/19/2008	
sec-Butylbenzene	EPA 8260B	8J19012	5.1	ND	1.02	10/19/2008	10/19/2008	
Carbon tetrachloride	EPA 8260B	8J19012	5.1	ND	1.02	10/19/2008	10/19/2008	
Chlorobenzene	EPA 8260B	8J19012	2.0	ND	1.02	10/19/2008	10/19/2008	
Chloroethane	EPA 8260B	8J19012	5.1	ND	1.02	10/19/2008	10/19/2008	
Chloroform	EPA 8260B	8J19012	2.0	ND	1.02	10/19/2008	10/19/2008	
Chloromethane	EPA 8260B	8J19012	5.1	ND	1.02	10/19/2008	10/19/2008	
4-Chlorotoluene	EPA 8260B	8J19012	5.1	ND	1.02	10/19/2008	10/19/2008	
2-Chlorotoluene	EPA 8260B	8J19012	5.1	ND	1.02	10/19/2008	10/19/2008	
1,2-Dibromo-3-chloropropane	EPA 8260B	8J19012	5.1	ND	1.02	10/19/2008	10/19/2008	
Dibromochloromethane	EPA 8260B	8J19012	2.0	ND	1.02	10/19/2008	10/19/2008	
1,2-Dibromoethane (EDB)	EPA 8260B	8J19012	2.0	ND	1.02	10/19/2008	10/19/2008	
Dibromomethane	EPA 8260B	8J19012	2.0	ND	1.02	10/19/2008	10/19/2008	
1,2-Dichlorobenzene	EPA 8260B	8J19012	2.0	ND	1.02	10/19/2008	10/19/2008	
1,3-Dichlorobenzene	EPA 8260B	8J19012	2.0	ND	1.02	10/19/2008	10/19/2008	
1,4-Dichlorobenzene	EPA 8260B	8J19012	2.0	ND	1.02	10/19/2008	10/19/2008	
Dichlorodifluoromethane	EPA 8260B	8J19012	5.1	ND	1.02	10/19/2008	10/19/2008	
1,1-Dichloroethane	EPA 8260B	8J19012	2.0	ND	1.02	10/19/2008	10/19/2008	
1,2-Dichloroethane	EPA 8260B	8J19012	2.0	ND	1.02	10/19/2008	10/19/2008	
1,1-Dichloroethene	EPA 8260B	8J19012	5.1	ND	1.02	10/19/2008	10/19/2008	
cis-1,2-Dichloroethene	EPA 8260B	8J19012	2.0	ND	1.02	10/19/2008	10/19/2008	
trans-1,2-Dichloroethene	EPA 8260B	8J19012	2.0	ND	1.02	10/19/2008	10/19/2008	
1,3-Dichloropropane	EPA 8260B	8J19012	2.0	ND	1.02	10/19/2008	10/19/2008	
2,2-Dichloropropane	EPA 8260B	8J19012	2.0	ND	1.02	10/19/2008	10/19/2008	
1,2-Dichloropropane	EPA 8260B	8J19012	2.0	ND	1.02	10/19/2008	10/19/2008	
cis-1,3-Dichloropropene	EPA 8260B	8J19012	2.0	ND	1.02	10/19/2008	10/19/2008	L
trans-1,3-Dichloropropene	EPA 8260B	8J19012	2.0	ND	1.02	10/19/2008	10/19/2008	
1,1-Dichloropropene	EPA 8260B	8J19012	2.0	ND	1.02	10/19/2008	10/19/2008	
Ethylbenzene	EPA 8260B	8J19012	2.0	ND	1.02	10/19/2008	10/19/2008	
Hexachlorobutadiene	EPA 8260B	8J19012	5.1	ND	1.02	10/19/2008	10/19/2008	
Isopropylbenzene	EPA 8260B	8J19012	2.0	ND	1.02	10/19/2008	10/19/2008	L
p-Isopropyltoluene	EPA 8260B	8J19012	2.0	ND	1.02	10/19/2008	10/19/2008	
Methylene chloride	EPA 8260B	8J19012	20	ND	1.02	10/19/2008	10/19/2008	
Naphthalene	EPA 8260B	8J19012	5.1	ND	1.02	10/19/2008	10/19/2008	

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Project ID: Cherry Ave / 2008-026
Cherry Ave / 2008-026
Report Number: IRJ1808

Sampled: 10/14/08
Received: 10/14/08

VOLATILE ORGANICS by GC/MS (EPA 5035/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1808-17 (B-4@3' - Soil) - cont.								
Reporting Units: ug/kg								
n-Propylbenzene	EPA 8260B	8J19012	2.0	ND	1.02	10/19/2008	10/19/2008	
Styrene	EPA 8260B	8J19012	2.0	ND	1.02	10/19/2008	10/19/2008	
1,1,1,2-Tetrachloroethane	EPA 8260B	8J19012	5.1	ND	1.02	10/19/2008	10/19/2008	
1,1,2,2-Tetrachloroethane	EPA 8260B	8J19012	2.0	ND	1.02	10/19/2008	10/19/2008	
Tetrachloroethene	EPA 8260B	8J19012	2.0	ND	1.02	10/19/2008	10/19/2008	
Toluene	EPA 8260B	8J19012	2.0	ND	1.02	10/19/2008	10/19/2008	
1,2,3-Trichlorobenzene	EPA 8260B	8J19012	5.1	ND	1.02	10/19/2008	10/19/2008	
1,2,4-Trichlorobenzene	EPA 8260B	8J19012	5.1	ND	1.02	10/19/2008	10/19/2008	
1,1,1-Trichloroethane	EPA 8260B	8J19012	2.0	ND	1.02	10/19/2008	10/19/2008	
1,1,2-Trichloroethane	EPA 8260B	8J19012	2.0	ND	1.02	10/19/2008	10/19/2008	
Trichloroethene	EPA 8260B	8J19012	2.0	ND	1.02	10/19/2008	10/19/2008	
Trichlorofluoromethane	EPA 8260B	8J19012	5.1	ND	1.02	10/19/2008	10/19/2008	
1,2,3-Trichloropropane	EPA 8260B	8J19012	10	ND	1.02	10/19/2008	10/19/2008	
1,2,4-Trimethylbenzene	EPA 8260B	8J19012	2.0	ND	1.02	10/19/2008	10/19/2008	
1,3,5-Trimethylbenzene	EPA 8260B	8J19012	2.0	ND	1.02	10/19/2008	10/19/2008	
Vinyl chloride	EPA 8260B	8J19012	5.1	ND	1.02	10/19/2008	10/19/2008	
m,p-Xylenes	EPA 8260B	8J19012	2.0	ND	1.02	10/19/2008	10/19/2008	
o-Xylene	EPA 8260B	8J19012	2.0	ND	1.02	10/19/2008	10/19/2008	
Surrogate: 4-Bromofluorobenzene (80-120%)				*93 %*				
Surrogate: Dibromofluoromethane (80-125%)				*103 %*				
Surrogate: Toluene-d8 (80-120%)				*103 %*				

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Project ID: Cherry Ave / 2008-026
Cherry Ave / 2008-026
Report Number: IRJ1808

Sampled: 10/14/08
Received: 10/14/08

VOLATILE ORGANICS by GC/MS (EPA 5035/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1808-22 (B-5@3' - Soil)								
Reporting Units: ug/kg								
Benzene	EPA 8260B	8J20023	1.8	ND	0.921	10/20/2008	10/21/2008	
Bromobenzene	EPA 8260B	8J20023	4.6	ND	0.921	10/20/2008	10/21/2008	I
Bromochloromethane	EPA 8260B	8J20023	4.6	ND	0.921	10/20/2008	10/21/2008	
Bromodichloromethane	EPA 8260B	8J20023	1.8	ND	0.921	10/20/2008	10/21/2008	
Bromoform	EPA 8260B	8J20023	4.6	ND	0.921	10/20/2008	10/21/2008	
Bromomethane	EPA 8260B	8J20023	4.6	ND	0.921	10/20/2008	10/21/2008	
n-Butylbenzene	EPA 8260B	8J20023	4.6	ND	0.921	10/20/2008	10/21/2008	I
tert-Butylbenzene	EPA 8260B	8J20023	4.6	ND	0.921	10/20/2008	10/21/2008	I
sec-Butylbenzene	EPA 8260B	8J20023	4.6	ND	0.921	10/20/2008	10/21/2008	I
Carbon tetrachloride	EPA 8260B	8J20023	4.6	ND	0.921	10/20/2008	10/21/2008	
Chlorobenzene	EPA 8260B	8J20023	1.8	ND	0.921	10/20/2008	10/21/2008	
Chloroethane	EPA 8260B	8J20023	4.6	ND	0.921	10/20/2008	10/21/2008	
Chloroform	EPA 8260B	8J20023	1.8	ND	0.921	10/20/2008	10/21/2008	
Chloromethane	EPA 8260B	8J20023	4.6	ND	0.921	10/20/2008	10/21/2008	
4-Chlorotoluene	EPA 8260B	8J20023	4.6	ND	0.921	10/20/2008	10/21/2008	I
2-Chlorotoluene	EPA 8260B	8J20023	4.6	ND	0.921	10/20/2008	10/21/2008	I
1,2-Dibromo-3-chloropropane	EPA 8260B	8J20023	4.6	ND	0.921	10/20/2008	10/21/2008	I
Dibromochloromethane	EPA 8260B	8J20023	1.8	ND	0.921	10/20/2008	10/21/2008	
1,2-Dibromoethane (EDB)	EPA 8260B	8J20023	1.8	ND	0.921	10/20/2008	10/21/2008	
Dibromomethane	EPA 8260B	8J20023	1.8	ND	0.921	10/20/2008	10/21/2008	
1,2-Dichlorobenzene	EPA 8260B	8J20023	1.8	ND	0.921	10/20/2008	10/21/2008	I
1,3-Dichlorobenzene	EPA 8260B	8J20023	1.8	ND	0.921	10/20/2008	10/21/2008	I
1,4-Dichlorobenzene	EPA 8260B	8J20023	1.8	ND	0.921	10/20/2008	10/21/2008	I
Dichlorodifluoromethane	EPA 8260B	8J20023	4.6	ND	0.921	10/20/2008	10/21/2008	
1,1-Dichloroethane	EPA 8260B	8J20023	1.8	ND	0.921	10/20/2008	10/21/2008	
1,2-Dichloroethane	EPA 8260B	8J20023	1.8	ND	0.921	10/20/2008	10/21/2008	
1,1-Dichloroethene	EPA 8260B	8J20023	4.6	ND	0.921	10/20/2008	10/21/2008	
cis-1,2-Dichloroethene	EPA 8260B	8J20023	1.8	ND	0.921	10/20/2008	10/21/2008	
trans-1,2-Dichloroethene	EPA 8260B	8J20023	1.8	ND	0.921	10/20/2008	10/21/2008	
1,3-Dichloropropane	EPA 8260B	8J20023	1.8	ND	0.921	10/20/2008	10/21/2008	
2,2-Dichloropropane	EPA 8260B	8J20023	1.8	ND	0.921	10/20/2008	10/21/2008	
1,2-Dichloropropane	EPA 8260B	8J20023	1.8	ND	0.921	10/20/2008	10/21/2008	
cis-1,3-Dichloropropene	EPA 8260B	8J20023	1.8	ND	0.921	10/20/2008	10/21/2008	
trans-1,3-Dichloropropene	EPA 8260B	8J20023	1.8	ND	0.921	10/20/2008	10/21/2008	
1,1-Dichloropropene	EPA 8260B	8J20023	1.8	ND	0.921	10/20/2008	10/21/2008	
Ethylbenzene	EPA 8260B	8J20023	1.8	ND	0.921	10/20/2008	10/21/2008	
Hexachlorobutadiene	EPA 8260B	8J20023	4.6	ND	0.921	10/20/2008	10/21/2008	I
Isopropylbenzene	EPA 8260B	8J20023	1.8	ND	0.921	10/20/2008	10/21/2008	I
p-Isopropyltoluene	EPA 8260B	8J20023	1.8	ND	0.921	10/20/2008	10/21/2008	I
Methylene chloride	EPA 8260B	8J20023	18	ND	0.921	10/20/2008	10/21/2008	
Naphthalene	EPA 8260B	8J20023	4.6	ND	0.921	10/20/2008	10/21/2008	I

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Project ID: Cherry Ave / 2008-026
Cherry Ave / 2008-026
Report Number: IRJ1808

Sampled: 10/14/08
Received: 10/14/08

VOLATILE ORGANICS by GC/MS (EPA 5035/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1808-22 (B-5@3' - Soil) - cont.								
Reporting Units: ug/kg								
n-Propylbenzene	EPA 8260B	8J20023	1.8	ND	0.921	10/20/2008	10/21/2008	I
Styrene	EPA 8260B	8J20023	1.8	ND	0.921	10/20/2008	10/21/2008	
1,1,1,2-Tetrachloroethane	EPA 8260B	8J20023	4.6	ND	0.921	10/20/2008	10/21/2008	
1,1,2,2-Tetrachloroethane	EPA 8260B	8J20023	1.8	ND	0.921	10/20/2008	10/21/2008	I
Tetrachloroethene	EPA 8260B	8J20023	1.8	ND	0.921	10/20/2008	10/21/2008	
Toluene	EPA 8260B	8J20023	1.8	ND	0.921	10/20/2008	10/21/2008	
1,2,3-Trichlorobenzene	EPA 8260B	8J20023	4.6	ND	0.921	10/20/2008	10/21/2008	I
1,2,4-Trichlorobenzene	EPA 8260B	8J20023	4.6	ND	0.921	10/20/2008	10/21/2008	I
1,1,1-Trichloroethane	EPA 8260B	8J20023	1.8	ND	0.921	10/20/2008	10/21/2008	
1,1,2-Trichloroethane	EPA 8260B	8J20023	1.8	ND	0.921	10/20/2008	10/21/2008	
Trichloroethene	EPA 8260B	8J20023	1.8	ND	0.921	10/20/2008	10/21/2008	
Trichlorofluoromethane	EPA 8260B	8J20023	4.6	ND	0.921	10/20/2008	10/21/2008	
1,2,3-Trichloropropane	EPA 8260B	8J20023	9.2	ND	0.921	10/20/2008	10/21/2008	I
1,2,4-Trimethylbenzene	EPA 8260B	8J20023	1.8	ND	0.921	10/20/2008	10/21/2008	I
1,3,5-Trimethylbenzene	EPA 8260B	8J20023	1.8	ND	0.921	10/20/2008	10/21/2008	I
Vinyl chloride	EPA 8260B	8J20023	4.6	ND	0.921	10/20/2008	10/21/2008	
m,p-Xylenes	EPA 8260B	8J20023	1.8	ND	0.921	10/20/2008	10/21/2008	
o-Xylene	EPA 8260B	8J20023	1.8	ND	0.921	10/20/2008	10/21/2008	
Surrogate: 4-Bromofluorobenzene (80-120%)				*72 %*				*Z*
Surrogate: Dibromofluoromethane (80-125%)				*111 %*				
Surrogate: Toluene-d8 (80-120%)				*85 %*				

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VOLATILE ORGANICS by GC/MS (EPA 5035/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1808-31 (B-7@3' - Soil)								
Reporting Units: ug/kg								
Benzene	EPA 8260B	8J20023	2.1	ND	1.03	10/20/2008	10/21/2008	
Bromobenzene	EPA 8260B	8J20023	5.1	ND	1.03	10/20/2008	10/21/2008	
Bromochloromethane	EPA 8260B	8J20023	5.1	ND	1.03	10/20/2008	10/21/2008	
Bromodichloromethane	EPA 8260B	8J20023	2.1	ND	1.03	10/20/2008	10/21/2008	
Bromoform	EPA 8260B	8J20023	5.1	ND	1.03	10/20/2008	10/21/2008	
Bromomethane	EPA 8260B	8J20023	5.1	ND	1.03	10/20/2008	10/21/2008	
n-Butylbenzene	EPA 8260B	8J20023	5.1	ND	1.03	10/20/2008	10/21/2008	
tert-Butylbenzene	EPA 8260B	8J20023	5.1	ND	1.03	10/20/2008	10/21/2008	
sec-Butylbenzene	EPA 8260B	8J20023	5.1	ND	1.03	10/20/2008	10/21/2008	
Carbon tetrachloride	EPA 8260B	8J20023	5.1	ND	1.03	10/20/2008	10/21/2008	
Chlorobenzene	EPA 8260B	8J20023	2.1	ND	1.03	10/20/2008	10/21/2008	
Chloroethane	EPA 8260B	8J20023	5.1	ND	1.03	10/20/2008	10/21/2008	
Chloroform	EPA 8260B	8J20023	2.1	ND	1.03	10/20/2008	10/21/2008	
Chloromethane	EPA 8260B	8J20023	5.1	ND	1.03	10/20/2008	10/21/2008	
4-Chlorotoluene	EPA 8260B	8J20023	5.1	ND	1.03	10/20/2008	10/21/2008	
2-Chlorotoluene	EPA 8260B	8J20023	5.1	ND	1.03	10/20/2008	10/21/2008	
1,2-Dibromo-3-chloropropane	EPA 8260B	8J20023	5.1	ND	1.03	10/20/2008	10/21/2008	
Dibromochloromethane	EPA 8260B	8J20023	2.1	ND	1.03	10/20/2008	10/21/2008	
1,2-Dibromoethane (EDB)	EPA 8260B	8J20023	2.1	ND	1.03	10/20/2008	10/21/2008	
Dibromomethane	EPA 8260B	8J20023	2.1	ND	1.03	10/20/2008	10/21/2008	
1,2-Dichlorobenzene	EPA 8260B	8J20023	2.1	ND	1.03	10/20/2008	10/21/2008	
1,3-Dichlorobenzene	EPA 8260B	8J20023	2.1	ND	1.03	10/20/2008	10/21/2008	
1,4-Dichlorobenzene	EPA 8260B	8J20023	2.1	ND	1.03	10/20/2008	10/21/2008	
Dichlorodifluoromethane	EPA 8260B	8J20023	5.1	ND	1.03	10/20/2008	10/21/2008	
1,1-Dichloroethane	EPA 8260B	8J20023	2.1	ND	1.03	10/20/2008	10/21/2008	
1,2-Dichloroethane	EPA 8260B	8J20023	2.1	ND	1.03	10/20/2008	10/21/2008	
1,1-Dichloroethene	EPA 8260B	8J20023	5.1	ND	1.03	10/20/2008	10/21/2008	
cis-1,2-Dichloroethene	EPA 8260B	8J20023	2.1	ND	1.03	10/20/2008	10/21/2008	
trans-1,2-Dichloroethene	EPA 8260B	8J20023	2.1	ND	1.03	10/20/2008	10/21/2008	
1,3-Dichloropropane	EPA 8260B	8J20023	2.1	ND	1.03	10/20/2008	10/21/2008	
2,2-Dichloropropane	EPA 8260B	8J20023	2.1	ND	1.03	10/20/2008	10/21/2008	
1,2-Dichloropropane	EPA 8260B	8J20023	2.1	ND	1.03	10/20/2008	10/21/2008	
cis-1,3-Dichloropropene	EPA 8260B	8J20023	2.1	ND	1.03	10/20/2008	10/21/2008	
trans-1,3-Dichloropropene	EPA 8260B	8J20023	2.1	ND	1.03	10/20/2008	10/21/2008	
1,1-Dichloropropene	EPA 8260B	8J20023	2.1	ND	1.03	10/20/2008	10/21/2008	
Ethylbenzene	EPA 8260B	8J20023	2.1	ND	1.03	10/20/2008	10/21/2008	
Hexachlorobutadiene	EPA 8260B	8J20023	5.1	ND	1.03	10/20/2008	10/21/2008	
Isopropylbenzene	EPA 8260B	8J20023	2.1	ND	1.03	10/20/2008	10/21/2008	
p-Isopropyltoluene	EPA 8260B	8J20023	2.1	ND	1.03	10/20/2008	10/21/2008	
Methylene chloride	EPA 8260B	8J20023	21	ND	1.03	10/20/2008	10/21/2008	
Naphthalene	EPA 8260B	8J20023	5.1	ND	1.03	10/20/2008	10/21/2008	

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Cherry Ave / 2008-026
Report Number: IRJ1808

Sampled: 10/14/08
Received: 10/14/08

VOLATILE ORGANICS by GC/MS (EPA 5035/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1808-31 (B-7@3' - Soil) - cont.								
Reporting Units: ug/kg								
n-Propylbenzene	EPA 8260B	8J20023	2.1	ND	1.03	10/20/2008	10/21/2008	
Styrene	EPA 8260B	8J20023	2.1	ND	1.03	10/20/2008	10/21/2008	
1,1,1,2-Tetrachloroethane	EPA 8260B	8J20023	5.1	ND	1.03	10/20/2008	10/21/2008	
1,1,2,2-Tetrachloroethane	EPA 8260B	8J20023	2.1	ND	1.03	10/20/2008	10/21/2008	
Tetrachloroethene	EPA 8260B	8J20023	2.1	ND	1.03	10/20/2008	10/21/2008	
Toluene	EPA 8260B	8J20023	2.1	ND	1.03	10/20/2008	10/21/2008	
1,2,3-Trichlorobenzene	EPA 8260B	8J20023	5.1	ND	1.03	10/20/2008	10/21/2008	
1,2,4-Trichlorobenzene	EPA 8260B	8J20023	5.1	ND	1.03	10/20/2008	10/21/2008	
1,1,1-Trichloroethane	EPA 8260B	8J20023	2.1	ND	1.03	10/20/2008	10/21/2008	
1,1,2-Trichloroethane	EPA 8260B	8J20023	2.1	ND	1.03	10/20/2008	10/21/2008	
Trichloroethene	EPA 8260B	8J20023	2.1	ND	1.03	10/20/2008	10/21/2008	
Trichlorofluoromethane	EPA 8260B	8J20023	5.1	ND	1.03	10/20/2008	10/21/2008	
1,2,3-Trichloropropane	EPA 8260B	8J20023	10	ND	1.03	10/20/2008	10/21/2008	
1,2,4-Trimethylbenzene	EPA 8260B	8J20023	2.1	ND	1.03	10/20/2008	10/21/2008	
1,3,5-Trimethylbenzene	EPA 8260B	8J20023	2.1	ND	1.03	10/20/2008	10/21/2008	
Vinyl chloride	EPA 8260B	8J20023	5.1	ND	1.03	10/20/2008	10/21/2008	
m,p-Xylenes	EPA 8260B	8J20023	2.1	ND	1.03	10/20/2008	10/21/2008	
o-Xylene	EPA 8260B	8J20023	2.1	ND	1.03	10/20/2008	10/21/2008	
Surrogate: 4-Bromofluorobenzene (80-120%)				*86 %*				
Surrogate: Dibromofluoromethane (80-125%)				*110 %*				
Surrogate: Toluene-d8 (80-120%)				*91 %*				

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METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1808-01 (B-1@0' - Soil)								
Reporting Units: mg/kg								
Mercury	EPA 7471A	8J21069	0.020	ND	1	10/21/2008	10/21/2008	
Antimony	EPA 6010B	8J22104	10	ND	1	10/22/2008	10/22/2008	
Arsenic	EPA 6010B	8J22104	2.0	ND	1	10/22/2008	10/22/2008	
Barium	EPA 6010B	8J22104	1.0	47	1	10/22/2008	10/23/2008	
Beryllium	EPA 6010B	8J22104	0.50	ND	1	10/22/2008	10/22/2008	
Cadmium	EPA 6010B	8J22104	0.50	ND	1	10/22/2008	10/22/2008	
Chromium	EPA 6010B	8J22104	1.0	ND	1	10/22/2008	10/22/2008	
Cobalt	EPA 6010B	8J22104	1.0	ND	1	10/22/2008	10/22/2008	
Copper	EPA 6010B	8J22104	2.0	ND	1	10/22/2008	10/22/2008	
Lead	EPA 6010B	8J22104	2.0	ND	1	10/22/2008	10/22/2008	
Molybdenum	EPA 6010B	8J22104	2.0	ND	1	10/22/2008	10/22/2008	
Nickel	EPA 6010B	8J22104	2.0	ND	1	10/22/2008	10/22/2008	
Selenium	EPA 6010B	8J22104	2.0	ND	1	10/22/2008	10/22/2008	
Silver	EPA 6010B	8J22104	1.0	ND	1	10/22/2008	10/22/2008	
Thallium	EPA 6010B	8J22104	10	ND	1	10/22/2008	10/22/2008	
Vanadium	EPA 6010B	8J22104	1.0	ND	1	10/22/2008	10/22/2008	M1
Zinc	EPA 6010B	8J22104	5.0	ND	1	10/22/2008	10/22/2008	M1
Sample ID: IRJ1808-02 (B-1@1' - Soil)								
Reporting Units: mg/kg								
Lead	EPA 6010B	8J22104	2.0	**6.1**	0.995	10/22/2008	10/22/2008	
Sample ID: IRJ1808-03 (B-1@2' - Soil)								
Reporting Units: mg/kg								
Lead	EPA 6010B	8J22104	2.0	**6.4**	0.995	10/22/2008	10/22/2008	
Sample ID: IRJ1808-05 (B-1@5' - Soil)								
Reporting Units: mg/kg								
Lead	EPA 6010B	8J22104	2.0	**6.9**	1.01	10/22/2008	10/22/2008	
Sample ID: IRJ1808-06 (B-2@0' - Soil)								
Reporting Units: mg/kg								
Lead	EPA 6010B	8J22104	2.0	**180**	1	10/22/2008	10/22/2008	
Sample ID: IRJ1808-07 (B-2@1' - Soil)								
Reporting Units: mg/kg								
Lead	EPA 6010B	8J22104	2.0	**7.9**	0.995	10/22/2008	10/22/2008	

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METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1808-08 (B-2@2' - Soil)								
Reporting Units: mg/kg								
Lead	EPA 6010B	8J22104	2.0	**7.1**	0.995	10/22/2008	10/22/2008	
Sample ID: IRJ1808-09 (B-2@5' - Soil)								
Reporting Units: mg/kg								
Lead	EPA 6010B	8J22104	2.0	**34**	0.995	10/22/2008	10/22/2008	
Sample ID: IRJ1808-10 (B-3@0' - Soil)								
Reporting Units: mg/kg								
Mercury	EPA 7471A	8J21069	0.020	**0.080**	1	10/21/2008	10/21/2008	
Antimony	EPA 6010B	8J22104	10	ND	1.01	10/22/2008	10/22/2008	
Arsenic	EPA 6010B	8J22104	2.0	**6.2**	1.01	10/22/2008	10/22/2008	
Barium	EPA 6010B	8J22104	1.0	**130**	1.01	10/22/2008	10/22/2008	
Beryllium	EPA 6010B	8J22104	0.50	ND	1.01	10/22/2008	10/22/2008	
Cadmium	EPA 6010B	8J22104	0.50	**0.63**	1.01	10/22/2008	10/22/2008	
Chromium	EPA 6010B	8J22104	1.0	**28**	1.01	10/22/2008	10/22/2008	
Cobalt	EPA 6010B	8J22104	1.0	**6.7**	1.01	10/22/2008	10/22/2008	
Copper	EPA 6010B	8J22104	2.0	**41**	1.01	10/22/2008	10/22/2008	
Lead	EPA 6010B	8J22104	2.0	**960**	1.01	10/22/2008	10/22/2008	
Molybdenum	EPA 6010B	8J22104	2.0	**3.1**	1.01	10/22/2008	10/22/2008	
Nickel	EPA 6010B	8J22104	2.0	**30**	1.01	10/22/2008	10/22/2008	
Selenium	EPA 6010B	8J22104	2.0	ND	1.01	10/22/2008	10/22/2008	
Silver	EPA 6010B	8J22104	1.0	ND	1.01	10/22/2008	10/22/2008	
Thallium	EPA 6010B	8J22104	10	ND	1.01	10/22/2008	10/22/2008	
Vanadium	EPA 6010B	8J22104	1.0	**28**	1.01	10/22/2008	10/22/2008	
Zinc	EPA 6010B	8J22104	5.0	**330**	1.01	10/22/2008	10/22/2008	
Sample ID: IRJ1808-11 (B-3@1' - Soil)								
Reporting Units: mg/kg								
Lead	EPA 6010B	8J22104	2.0	**7.7**	1.01	10/22/2008	10/23/2008	
Sample ID: IRJ1808-12 (B-3@2' - Soil)								
Reporting Units: mg/kg								
Lead	EPA 6010B	8J22104	2.0	**910**	1	10/22/2008	10/23/2008	
Sample ID: IRJ1808-13 (B-3@5' - Soil)								
Reporting Units: mg/kg								
Lead	EPA 6010B	8J22104	2.0	**47**	1.01	10/22/2008	10/23/2008	

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METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1808-14 (B-4@0' - Soil)								
Reporting Units: mg/kg								
Lead	EPA 6010B	8J22104	2.0	**82**	1.01	10/22/2008	10/23/2008	
Sample ID: IRJ1808-15 (B-4@1' - Soil)								
Reporting Units: mg/kg								
Lead	EPA 6010B	8J22104	2.0	**130**	1.01	10/22/2008	10/23/2008	
Sample ID: IRJ1808-16 (B-4@2' - Soil)								
Reporting Units: mg/kg								
Lead	EPA 6010B	8J22104	2.0	**21**	0.995	10/22/2008	10/23/2008	
Sample ID: IRJ1808-18 (B-4@5' - Soil)								
Reporting Units: mg/kg								
Lead	EPA 6010B	8J22104	2.0	**2.9**	0.995	10/22/2008	10/23/2008	
Sample ID: IRJ1808-19 (B-5@0' - Soil)								
Reporting Units: mg/kg								
Mercury	EPA 7471A	8J21069	0.020	**0.021**	1	10/21/2008	10/21/2008	
Antimony	EPA 6010B	8J22104	10	ND	1.01	10/22/2008	10/23/2008	
Arsenic	EPA 6010B	8J22104	2.0	**3.4**	1.01	10/22/2008	10/23/2008	
Barium	EPA 6010B	8J22104	1.0	**64**	1.01	10/22/2008	10/23/2008	
Beryllium	EPA 6010B	8J22104	0.50	ND	1.01	10/22/2008	10/23/2008	
Cadmium	EPA 6010B	8J22104	0.50	ND	1.01	10/22/2008	10/23/2008	
Chromium	EPA 6010B	8J22104	1.0	**17**	1.01	10/22/2008	10/23/2008	
Cobalt	EPA 6010B	8J22104	1.0	**4.6**	1.01	10/22/2008	10/23/2008	
Copper	EPA 6010B	8J22104	2.0	**54**	1.01	10/22/2008	10/23/2008	
Lead	EPA 6010B	8J22104	2.0	**180**	1.01	10/22/2008	10/23/2008	
Molybdenum	EPA 6010B	8J22104	2.0	**3.6**	1.01	10/22/2008	10/23/2008	
Nickel	EPA 6010B	8J22104	2.0	**17**	1.01	10/22/2008	10/23/2008	
Selenium	EPA 6010B	8J22104	2.0	ND	1.01	10/22/2008	10/23/2008	
Silver	EPA 6010B	8J22104	1.0	ND	1.01	10/22/2008	10/23/2008	
Thallium	EPA 6010B	8J22104	10	ND	1.01	10/22/2008	10/23/2008	
Vanadium	EPA 6010B	8J22104	1.0	**16**	1.01	10/22/2008	10/23/2008	
Zinc	EPA 6010B	8J22104	5.0	**110**	1.01	10/22/2008	10/23/2008	

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Project ID: Cherry Ave / 2008-026
Cherry Ave / 2008-026
Report Number: IRJ1808

Sampled: 10/14/08
Received: 10/14/08

METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1808-20 (B-5@1' - Soil)								
Reporting Units: mg/kg								
Lead	EPA 6010B	8J22104	2.0	**66**	1	10/22/2008	10/23/2008	
Sample ID: IRJ1808-21 (B-5@2' - Soil)								
Reporting Units: mg/kg								
Lead	EPA 6010B	8J22104	2.0	**78**	1.01	10/22/2008	10/23/2008	
Sample ID: IRJ1808-23 (B-5@5' - Soil)								
Reporting Units: mg/kg								
Lead	EPA 6010B	8J22104	2.0	**68**	0.995	10/22/2008	10/23/2008	
Sample ID: IRJ1808-28 (B-7@0' - Soil)								
Reporting Units: mg/kg								
Lead	EPA 6010B	8J23167	2.0	**120**	1	10/23/2008	10/24/2008	
Sample ID: IRJ1808-29 (B-7@1' - Soil)								
Reporting Units: mg/kg								
Lead	EPA 6010B	8J23167	2.0	**130**	1	10/23/2008	10/24/2008	
Sample ID: IRJ1808-30 (B-7@2' - Soil)								
Reporting Units: mg/kg								
Lead	EPA 6010B	8J23167	2.0	**130**	1	10/23/2008	10/24/2008	
Sample ID: IRJ1808-32 (B-7@5' - Soil)								
Reporting Units: mg/kg								
Lead	EPA 6010B	8J23167	2.0	**7.5**	1	10/23/2008	10/24/2008	
Sample ID: IRJ1808-33 (EB-1 - Water)								
Reporting Units: mg/l								
Mercury	EPA 7470A	8J20085	0.00020	ND	1	10/20/2008	10/20/2008	
Antimony	EPA 6010B	8J18050	0.010	ND	1	10/18/2008	10/20/2008	
Arsenic	EPA 6010B	8J18050	0.010	ND	1	10/18/2008	10/20/2008	
Barium	EPA 6010B	8J18050	0.010	ND	1	10/18/2008	10/20/2008	
Beryllium	EPA 6010B	8J18050	0.0040	ND	1	10/18/2008	10/20/2008	
Cadmium	EPA 6010B	8J18050	0.0050	ND	1	10/18/2008	10/20/2008	
Chromium	EPA 6010B	8J18050	0.0050	ND	1	10/18/2008	10/20/2008	
Cobalt	EPA 6010B	8J18050	0.010	ND	1	10/18/2008	10/20/2008	
Copper	EPA 6010B	8J18050	0.010	ND	1	10/18/2008	10/20/2008	
Lead	EPA 6010B	8J18050	0.0050	ND	1	10/18/2008	10/20/2008	
Molybdenum	EPA 6010B	8J18050	0.020	ND	1	10/18/2008	10/20/2008	
Nickel	EPA 6010B	8J18050	0.010	ND	1	10/18/2008	10/20/2008	
Selenium	EPA 6010B	8J18050	0.010	ND	1	10/18/2008	10/20/2008	
Silver	EPA 6010B	8J18050	0.010	ND	1	10/18/2008	10/20/2008	
Thallium	EPA 6010B	8J18050	0.010	ND	1	10/18/2008	10/20/2008	
Vanadium	EPA 6010B	8J18050	0.010	ND	1	10/18/2008	10/20/2008	

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METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1808-33 (EB-1 - Water) - cont.								
Reporting Units: mg/l								
Zinc	EPA 6010B	8J18050	0.020	ND	1	10/18/2008	10/20/2008	
Sample ID: IRJ1808-34 (EB-2 - Water)								
Reporting Units: mg/l								
Mercury	EPA 7470A	8J20085	0.00020	ND	1	10/20/2008	10/20/2008	
Antimony	EPA 6010B	8J18050	0.010	ND	1	10/18/2008	10/20/2008	
Arsenic	EPA 6010B	8J18050	0.010	ND	1	10/18/2008	10/20/2008	
Barium	EPA 6010B	8J18050	0.010	ND	1	10/18/2008	10/20/2008	
Beryllium	EPA 6010B	8J18050	0.0040	ND	1	10/18/2008	10/20/2008	
Cadmium	EPA 6010B	8J18050	0.0050	ND	1	10/18/2008	10/20/2008	
Chromium	EPA 6010B	8J18050	0.0050	ND	1	10/18/2008	10/20/2008	
Cobalt	EPA 6010B	8J18050	0.010	ND	1	10/18/2008	10/20/2008	
Copper	EPA 6010B	8J18050	0.010	ND	1	10/18/2008	10/20/2008	
Lead	EPA 6010B	8J18050	0.0050	ND	1	10/18/2008	10/20/2008	
Molybdenum	EPA 6010B	8J18050	0.020	ND	1	10/18/2008	10/20/2008	
Nickel	EPA 6010B	8J18050	0.010	ND	1	10/18/2008	10/20/2008	
Selenium	EPA 6010B	8J18050	0.010	ND	1	10/18/2008	10/20/2008	
Silver	EPA 6010B	8J18050	0.010	ND	1	10/18/2008	10/20/2008	
Thallium	EPA 6010B	8J18050	0.010	ND	1	10/18/2008	10/20/2008	
Vanadium	EPA 6010B	8J18050	0.010	ND	1	10/18/2008	10/20/2008	
Zinc	EPA 6010B	8J18050	0.020	ND	1	10/18/2008	10/20/2008	

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METHOD BLANK/QC DATA

EXTRACTABLE FUEL HYDROCARBONS (CADHS/8015 Modified)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J17138 Extracted: 10/18/08										
Blank Analyzed: 10/20/2008 (8J17138-BLK1)										
DRO (C13 - C28)	ND	5.0	mg/kg							
ORO (C29-C40)	ND	5.0	mg/kg							
EFH (C13 - C40)	ND	5.0	mg/kg							
Surrogate: n-Octacosane	*5.27*		*mg/kg*	*6.67*		*79*	*40-125*			
LCS Analyzed: 10/20/2008 (8J17138-BS1)										
DRO (C13 - C28)	17.3	5.0	mg/kg	25.0		69	45-115			
Surrogate: n-Octacosane	*5.07*		*mg/kg*	*6.67*		*76*	*40-125*			
Matrix Spike Analyzed: 10/20/2008 (8J17138-MS1)					**Source: IRJ1811-01**					
EFH (C13 - C40)	201	10	mg/kg	25.0	231	-120	40-120			*M2*
Surrogate: n-Octacosane	*9.08*		*mg/kg*	*6.67*		*136*	*40-125*			*ZX*
Matrix Spike Dup Analyzed: 10/20/2008 (8J17138-MSD1)					**Source: IRJ1811-01**					
EFH (C13 - C40)	235	10	mg/kg	25.0	231	18	40-120	16	30	*M2*
Surrogate: n-Octacosane	*9.38*		*mg/kg*	*6.67*		*141*	*40-125*			*ZX*

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EXTRACTABLE FUEL HYDROCARBONS (EPA 8015 CADHS Modified)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J18043 Extracted: 10/18/08										
Blank Analyzed: 10/20/2008 (8J18043-BLK1)										
DRO (C13 - C28)	ND	0.50	mg/l							
ORO (C29-C40)	ND	0.50	mg/l							
EFH (C13 - C40)	ND	0.50	mg/l							
Surrogate: n-Octacosane	*0.166*		*mg/l*	*0.200*		*83*	*40-125*			
LCS Analyzed: 10/20/2008 (8J18043-BS1)										
EFH (C13 - C40)	0.587	0.50	mg/l	0.750		78	40-115			
Surrogate: n-Octacosane	*0.162*		*mg/l*	*0.200*		*81*	*40-125*			
Matrix Spike Analyzed: 10/20/2008 (8J18043-MS1)					**Source: IRJ1758-38**					
EFH (C13 - C40)	0.592	0.47	mg/l	0.708	ND	84	40-120			
Surrogate: n-Octacosane	*0.155*		*mg/l*	*0.189*		*82*	*40-125*			
Matrix Spike Dup Analyzed: 10/20/2008 (8J18043-MSD1)					**Source: IRJ1758-38**					
EFH (C13 - C40)	0.679	0.47	mg/l	0.708	ND	96	40-120	14	30	
Surrogate: n-Octacosane	*0.168*		*mg/l*	*0.189*		*89*	*40-125*			

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VOLATILE FUEL HYDROCARBONS (EPA 5030/CADHS Mod. 8015)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J18002 Extracted: 10/18/08										
Blank Analyzed: 10/18/2008 (8J18002-BLK1)										
Volatile Fuel Hydrocarbons (C6-C12)	ND	0.40	mg/kg							
Surrogate: 4-BFB (FID)	*0.0193*		*mg/kg*	*0.0200*		*96*	*65-140*			
LCS Analyzed: 10/18/2008 (8J18002-BS1)										
Volatile Fuel Hydrocarbons (C6-C12)	1.69	0.40	mg/kg	1.60		105	70-135			
Surrogate: 4-BFB (FID)	*0.0259*		*mg/kg*	*0.0200*		*130*	*65-140*			
Matrix Spike Analyzed: 10/18/2008 (8J18002-MS1)					**Source: IRJ1719-01**					
Volatile Fuel Hydrocarbons (C6-C12)	0.543	0.38	mg/kg	0.422	ND	129	60-140			
Surrogate: 4-BFB (FID)	*0.0203*		*mg/kg*	*0.0192*		*106*	*65-140*			
Matrix Spike Dup Analyzed: 10/18/2008 (8J18002-MSD1)					**Source: IRJ1719-01**					
Volatile Fuel Hydrocarbons (C6-C12)	0.515	0.38	mg/kg	0.415	ND	124	60-140	5	30	
Surrogate: 4-BFB (FID)	*0.0203*		*mg/kg*	*0.0189*		*108*	*65-140*			
Batch: 8J22038 Extracted: 10/22/08										
Blank Analyzed: 10/22/2008 (8J22038-BLK1)										
Volatile Fuel Hydrocarbons (C6-C12)	ND	50	ug/l							
Surrogate: 4-BFB (FID)	*7.96*		*ug/l*	*10.0*		*80*	*65-140*			
LCS Analyzed: 10/22/2008 (8J22038-BS1)										
Volatile Fuel Hydrocarbons (C6-C12)	758	50	ug/l	800		95	80-120			
Surrogate: 4-BFB (FID)	*12.7*		*ug/l*	*10.0*		*127*	*65-140*			
Matrix Spike Analyzed: 10/22/2008 (8J22038-MS1)					**Source: IRJ2060-01**					
Volatile Fuel Hydrocarbons (C6-C12)	242	50	ug/l	220	ND	110	65-140			
Surrogate: 4-BFB (FID)	*10.6*		*ug/l*	*10.0*		*106*	*65-140*			

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METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS (EPA 5030/CADHS Mod. 8015)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J22038 Extracted: 10/22/08										
Matrix Spike Dup Analyzed: 10/22/2008 (8J22038-MSD1)					**Source: IRJ2060-01**					
Volatile Fuel Hydrocarbons (C6-C12)	240	50	ug/l	220	ND	109	65-140	1	20	
Surrogate: 4-BFB (FID)	*10.4*		*ug/l*	*10.0*		*104*	*65-140*			

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J19015 Extracted: 10/19/08										
Blank Analyzed: 10/19/2008 (8J19015-BLK1)										
Benzene	ND	2.0	ug/l							
Bromobenzene	ND	5.0	ug/l							
Bromochloromethane	ND	5.0	ug/l							
Bromodichloromethane	ND	2.0	ug/l							
Bromoform	ND	5.0	ug/l							
Bromomethane	ND	5.0	ug/l							
n-Butylbenzene	ND	5.0	ug/l							
tert-Butylbenzene	ND	5.0	ug/l							
sec-Butylbenzene	ND	5.0	ug/l							
Carbon tetrachloride	ND	5.0	ug/l							
Chlorobenzene	ND	2.0	ug/l							
Chloroethane	ND	5.0	ug/l							
Chloroform	ND	2.0	ug/l							
Chloromethane	ND	5.0	ug/l							
4-Chlorotoluene	ND	5.0	ug/l							
2-Chlorotoluene	ND	5.0	ug/l							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/l							
Dibromochloromethane	ND	2.0	ug/l							
1,2-Dibromoethane (EDB)	ND	2.0	ug/l							
Dibromomethane	ND	2.0	ug/l							
1,2-Dichlorobenzene	ND	2.0	ug/l							
1,3-Dichlorobenzene	ND	2.0	ug/l							
1,4-Dichlorobenzene	ND	2.0	ug/l							
Dichlorodifluoromethane	ND	5.0	ug/l							
1,1-Dichloroethane	ND	2.0	ug/l							
1,2-Dichloroethane	ND	2.0	ug/l							
1,1-Dichloroethene	ND	5.0	ug/l							
cis-1,2-Dichloroethene	ND	2.0	ug/l							
trans-1,2-Dichloroethene	ND	2.0	ug/l							
1,3-Dichloropropane	ND	2.0	ug/l							
2,2-Dichloropropane	ND	2.0	ug/l							
1,2-Dichloropropane	ND	2.0	ug/l							
cis-1,3-Dichloropropene	ND	2.0	ug/l							
trans-1,3-Dichloropropene	ND	2.0	ug/l							
1,1-Dichloropropene	ND	2.0	ug/l							
Ethylbenzene	ND	2.0	ug/l							

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J19015 Extracted: 10/19/08										
Blank Analyzed: 10/19/2008 (8J19015-BLK1)										
Hexachlorobutadiene	ND	5.0	ug/l							
Isopropylbenzene	ND	2.0	ug/l							
p-Isopropyltoluene	ND	2.0	ug/l							
Methylene chloride	ND	5.0	ug/l							
Naphthalene	ND	5.0	ug/l							
n-Propylbenzene	ND	2.0	ug/l							
Styrene	ND	2.0	ug/l							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/l							
1,1,2,2-Tetrachloroethane	ND	2.0	ug/l							
Tetrachloroethene	ND	2.0	ug/l							
Toluene	ND	2.0	ug/l							
1,2,3-Trichlorobenzene	ND	5.0	ug/l							
1,2,4-Trichlorobenzene	ND	5.0	ug/l							
1,1,1-Trichloroethane	ND	2.0	ug/l							
1,1,2-Trichloroethane	ND	2.0	ug/l							
Trichloroethene	ND	2.0	ug/l							
Trichlorofluoromethane	ND	5.0	ug/l							
1,2,3-Trichloropropane	ND	10	ug/l							
1,2,4-Trimethylbenzene	ND	2.0	ug/l							
1,3,5-Trimethylbenzene	ND	2.0	ug/l							
Vinyl chloride	ND	5.0	ug/l							
m,p-Xylenes	ND	2.0	ug/l							
o-Xylene	ND	2.0	ug/l							
Surrogate: 4-Bromofluorobenzene	*21.9*		*ug/l*	*25.0*		*88*	*80-120*			
Surrogate: Dibromofluoromethane	*22.2*		*ug/l*	*25.0*		*89*	*80-120*			
Surrogate: Toluene-d8	*22.5*		*ug/l*	*25.0*		*90*	*80-120*			
LCS Analyzed: 10/19/2008 (8J19015-BS1)										
Benzene	24.8	2.0	ug/l	25.0		99	70-120			
Bromobenzene	26.8	5.0	ug/l	25.0		107	75-120			
Bromochloromethane	25.8	5.0	ug/l	25.0		103	70-130			
Bromodichloromethane	23.8	2.0	ug/l	25.0		95	70-135			
Bromoform	20.3	5.0	ug/l	25.0		81	55-130			
Bromomethane	26.7	5.0	ug/l	25.0		107	65-140			
n-Butylbenzene	24.7	5.0	ug/l	25.0		99	70-130			
tert-Butylbenzene	26.2	5.0	ug/l	25.0		105	70-125			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J19015 Extracted: 10/19/08										
LCS Analyzed: 10/19/2008 (8J19015-BS1)										
sec-Butylbenzene	25.6	5.0	ug/l	25.0		102	70-125			
Carbon tetrachloride	23.2	5.0	ug/l	25.0		93	65-140			
Chlorobenzene	26.6	2.0	ug/l	25.0		107	75-120			
Chloroethane	25.1	5.0	ug/l	25.0		101	60-140			
Chloroform	23.0	2.0	ug/l	25.0		92	70-130			
Chloromethane	25.0	5.0	ug/l	25.0		100	50-140			
4-Chlorotoluene	25.8	5.0	ug/l	25.0		103	75-125			
2-Chlorotoluene	25.6	5.0	ug/l	25.0		102	70-125			
1,2-Dibromo-3-chloropropane	21.3	5.0	ug/l	25.0		85	50-135			
Dibromochloromethane	21.8	2.0	ug/l	25.0		87	70-140			
1,2-Dibromoethane (EDB)	25.8	2.0	ug/l	25.0		103	75-125			
Dibromomethane	25.7	2.0	ug/l	25.0		103	70-125			
1,2-Dichlorobenzene	26.6	2.0	ug/l	25.0		107	75-120			
1,3-Dichlorobenzene	27.3	2.0	ug/l	25.0		109	75-120			
1,4-Dichlorobenzene	26.3	2.0	ug/l	25.0		105	75-120			
Dichlorodifluoromethane	31.1	5.0	ug/l	25.0		124	35-155			
1,1-Dichloroethane	23.8	2.0	ug/l	25.0		95	70-125			
1,2-Dichloroethane	24.2	2.0	ug/l	25.0		97	60-140			
1,1-Dichloroethene	26.1	5.0	ug/l	25.0		104	70-125			
cis-1,2-Dichloroethene	24.3	2.0	ug/l	25.0		97	70-125			
trans-1,2-Dichloroethene	27.5	2.0	ug/l	25.0		110	70-125			
1,3-Dichloropropane	25.1	2.0	ug/l	25.0		100	70-120			
2,2-Dichloropropane	24.3	2.0	ug/l	25.0		97	65-140			
1,2-Dichloropropane	25.0	2.0	ug/l	25.0		100	70-125			
cis-1,3-Dichloropropene	24.7	2.0	ug/l	25.0		99	75-125			
trans-1,3-Dichloropropene	24.0	2.0	ug/l	25.0		96	70-125			
1,1-Dichloropropene	24.8	2.0	ug/l	25.0		99	75-130			
Ethylbenzene	26.2	2.0	ug/l	25.0		105	75-125			
Hexachlorobutadiene	29.9	5.0	ug/l	25.0		120	65-135			
Isopropylbenzene	30.5	2.0	ug/l	25.0		122	75-130			
p-Isopropyltoluene	25.6	2.0	ug/l	25.0		103	75-125			
Methylene chloride	23.8	5.0	ug/l	25.0		95	55-130			
Naphthalene	23.6	5.0	ug/l	25.0		95	55-135			
n-Propylbenzene	26.4	2.0	ug/l	25.0		106	75-130			
Styrene	26.4	2.0	ug/l	25.0		106	75-130			
1,1,1,2-Tetrachloroethane	24.6	5.0	ug/l	25.0		98	70-130			

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Project ID: Cherry Ave / 2008-026
Cherry Ave / 2008-026
Report Number: IRJ1808

Sampled: 10/14/08
Received: 10/14/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J19015 Extracted: 10/19/08										
LCS Analyzed: 10/19/2008 (8J19015-BS1)										
1,1,2,2-Tetrachloroethane	25.3	2.0	ug/l	25.0		101	55-130			
Tetrachloroethene	26.8	2.0	ug/l	25.0		107	70-125			
Toluene	25.3	2.0	ug/l	25.0		101	70-120			
1,2,3-Trichlorobenzene	24.0	5.0	ug/l	25.0		96	65-125			
1,2,4-Trichlorobenzene	24.8	5.0	ug/l	25.0		99	70-135			
1,1,1-Trichloroethane	23.9	2.0	ug/l	25.0		96	65-135			
1,1,2-Trichloroethane	25.2	2.0	ug/l	25.0		101	70-125			
Trichloroethene	26.3	2.0	ug/l	25.0		105	70-125			
Trichlorofluoromethane	26.1	5.0	ug/l	25.0		104	65-145			
1,2,3-Trichloropropane	24.4	10	ug/l	25.0		97	60-130			
1,2,4-Trimethylbenzene	25.7	2.0	ug/l	25.0		103	75-125			
1,3,5-Trimethylbenzene	26.6	2.0	ug/l	25.0		107	75-125			
Vinyl chloride	26.4	5.0	ug/l	25.0		106	55-135			
m,p-Xylenes	51.9	2.0	ug/l	50.0		104	75-125			
o-Xylene	25.8	2.0	ug/l	25.0		103	75-125			
Surrogate: 4-Bromofluorobenzene	*22.4*		*ug/l*	*25.0*		*89*	*80-120*			
Surrogate: Dibromofluoromethane	*22.2*		*ug/l*	*25.0*		*89*	*80-120*			
Surrogate: Toluene-d8	*22.7*		*ug/l*	*25.0*		*91*	*80-120*			
Matrix Spike Analyzed: 10/19/2008 (8J19015-MS1)					**Source: IRJ1592-02**					
Benzene	24.0	2.0	ug/l	25.0	ND	96	65-125			
Bromobenzene	26.5	5.0	ug/l	25.0	ND	106	70-125			
Bromochloromethane	24.8	5.0	ug/l	25.0	ND	99	65-135			
Bromodichloromethane	23.9	2.0	ug/l	25.0	ND	95	70-135			
Bromoform	20.7	5.0	ug/l	25.0	ND	83	55-135			
Bromomethane	24.8	5.0	ug/l	25.0	ND	99	55-145			
n-Butylbenzene	25.3	5.0	ug/l	25.0	ND	101	65-135			
tert-Butylbenzene	26.2	5.0	ug/l	25.0	ND	105	65-130			
sec-Butylbenzene	25.6	5.0	ug/l	25.0	0.250	101	70-125			
Carbon tetrachloride	23.1	5.0	ug/l	25.0	ND	92	65-140			
Chlorobenzene	26.6	2.0	ug/l	25.0	ND	107	75-125			
Chloroethane	23.1	5.0	ug/l	25.0	ND	92	55-140			
Chloroform	22.5	2.0	ug/l	25.0	ND	90	65-135			
Chloromethane	22.0	5.0	ug/l	25.0	ND	88	45-145			
4-Chlorotoluene	25.7	5.0	ug/l	25.0	ND	103	70-135			
2-Chlorotoluene	25.3	5.0	ug/l	25.0	ND	101	65-135			

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Project ID: Cherry Ave / 2008-026
Cherry Ave / 2008-026
Report Number: IRJ1808

Sampled: 10/14/08
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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J19015 Extracted: 10/19/08										
Matrix Spike Analyzed: 10/19/2008 (8J19015-MS1)					**Source: IRJ1592-02**					
1,2-Dibromo-3-chloropropane	21.3	5.0	ug/l	25.0	ND	85	45-145			
Dibromochloromethane	21.8	2.0	ug/l	25.0	ND	87	65-140			
1,2-Dibromoethane (EDB)	25.4	2.0	ug/l	25.0	ND	101	70-130			
Dibromomethane	25.1	2.0	ug/l	25.0	ND	101	65-135			
1,2-Dichlorobenzene	26.2	2.0	ug/l	25.0	ND	105	75-125			
1,3-Dichlorobenzene	27.2	2.0	ug/l	25.0	ND	109	75-125			
1,4-Dichlorobenzene	26.0	2.0	ug/l	25.0	ND	104	75-125			
Dichlorodifluoromethane	22.9	5.0	ug/l	25.0	ND	92	25-155			
1,1-Dichloroethane	22.9	2.0	ug/l	25.0	ND	92	65-130			
1,2-Dichloroethane	23.2	2.0	ug/l	25.0	ND	93	60-140			
1,1-Dichloroethene	24.4	5.0	ug/l	25.0	ND	98	60-130			
cis-1,2-Dichloroethene	23.6	2.0	ug/l	25.0	ND	94	65-130			
trans-1,2-Dichloroethene	26.1	2.0	ug/l	25.0	ND	104	65-130			
1,3-Dichloropropane	24.0	2.0	ug/l	25.0	ND	96	65-135			
2,2-Dichloropropane	24.3	2.0	ug/l	25.0	ND	97	60-145			
1,2-Dichloropropane	24.8	2.0	ug/l	25.0	ND	99	65-130			
cis-1,3-Dichloropropene	24.7	2.0	ug/l	25.0	ND	99	70-130			
trans-1,3-Dichloropropene	23.5	2.0	ug/l	25.0	ND	94	65-135			
1,1-Dichloropropene	24.7	2.0	ug/l	25.0	ND	99	70-135			
Ethylbenzene	26.2	2.0	ug/l	25.0	ND	105	65-130			
Hexachlorobutadiene	30.6	5.0	ug/l	25.0	ND	122	60-135			
Isopropylbenzene	30.4	2.0	ug/l	25.0	ND	122	70-135			
p-Isopropyltoluene	25.6	2.0	ug/l	25.0	1.04	98	65-130			
Methylene chloride	22.5	5.0	ug/l	25.0	ND	90	50-135			
Naphthalene	23.7	5.0	ug/l	25.0	0.510	93	50-140			
n-Propylbenzene	26.3	2.0	ug/l	25.0	ND	105	70-135			
Styrene	26.0	2.0	ug/l	25.0	ND	104	50-145			
1,1,1,2-Tetrachloroethane	24.9	5.0	ug/l	25.0	ND	100	65-140			
1,1,2,2-Tetrachloroethane	24.7	2.0	ug/l	25.0	ND	99	55-135			
Tetrachloroethene	27.2	2.0	ug/l	25.0	ND	109	65-130			
Toluene	25.1	2.0	ug/l	25.0	ND	101	70-125			
1,2,3-Trichlorobenzene	24.6	5.0	ug/l	25.0	ND	99	60-135			
1,2,4-Trichlorobenzene	25.5	5.0	ug/l	25.0	ND	102	65-135			
1,1,1-Trichloroethane	23.6	2.0	ug/l	25.0	ND	94	65-140			
1,1,2-Trichloroethane	27.1	2.0	ug/l	25.0	ND	108	65-130			
Trichloroethene	26.1	2.0	ug/l	25.0	ND	104	65-125			

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Project ID: Cherry Ave / 2008-026
Cherry Ave / 2008-026
Report Number: IRJ1808

Sampled: 10/14/08
Received: 10/14/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J19015 Extracted: 10/19/08										
Matrix Spike Analyzed: 10/19/2008 (8J19015-MS1)					**Source: IRJ1592-02**					
Trichlorofluoromethane	24.2	5.0	ug/l	25.0	ND	97	60-145			
1,2,3-Trichloropropane	23.1	10	ug/l	25.0	ND	92	55-135			
1,2,4-Trimethylbenzene	25.6	2.0	ug/l	25.0	ND	103	55-135			
1,3,5-Trimethylbenzene	26.4	2.0	ug/l	25.0	ND	106	70-130			
Vinyl chloride	24.0	5.0	ug/l	25.0	ND	96	45-140			
m,p-Xylenes	52.2	2.0	ug/l	50.0	ND	104	65-130			
o-Xylene	26.2	2.0	ug/l	25.0	ND	105	65-125			
Surrogate: 4-Bromofluorobenzene	*22.9*		*ug/l*	*25.0*		*91*	*80-120*			
Surrogate: Dibromofluoromethane	*21.8*		*ug/l*	*25.0*		*87*	*80-120*			
Surrogate: Toluene-d8	*22.7*		*ug/l*	*25.0*		*91*	*80-120*			
Matrix Spike Dup Analyzed: 10/19/2008 (8J19015-MSD1)					**Source: IRJ1592-02**					
Benzene	22.8	2.0	ug/l	25.0	ND	91	65-125	5	20	
Bromobenzene	25.1	5.0	ug/l	25.0	ND	100	70-125	5	20	
Bromochloromethane	24.5	5.0	ug/l	25.0	ND	98	65-135	1	25	
Bromodichloromethane	23.0	2.0	ug/l	25.0	ND	92	70-135	4	20	
Bromoform	20.3	5.0	ug/l	25.0	ND	81	55-135	2	25	
Bromomethane	23.6	5.0	ug/l	25.0	ND	94	55-145	5	25	
n-Butylbenzene	23.4	5.0	ug/l	25.0	ND	93	65-135	8	20	
tert-Butylbenzene	24.5	5.0	ug/l	25.0	ND	98	65-130	7	20	
sec-Butylbenzene	23.8	5.0	ug/l	25.0	0.250	94	70-125	7	20	
Carbon tetrachloride	22.6	5.0	ug/l	25.0	ND	90	65-140	2	25	
Chlorobenzene	25.4	2.0	ug/l	25.0	ND	101	75-125	5	20	
Chloroethane	21.8	5.0	ug/l	25.0	ND	87	55-140	6	25	
Chloroform	21.4	2.0	ug/l	25.0	ND	86	65-135	5	20	
Chloromethane	20.5	5.0	ug/l	25.0	ND	82	45-145	7	25	
4-Chlorotoluene	24.0	5.0	ug/l	25.0	ND	96	70-135	7	20	
2-Chlorotoluene	23.8	5.0	ug/l	25.0	ND	95	65-135	6	20	
1,2-Dibromo-3-chloropropane	20.4	5.0	ug/l	25.0	ND	81	45-145	5	30	
Dibromochloromethane	21.1	2.0	ug/l	25.0	ND	84	65-140	3	25	
1,2-Dibromoethane (EDB)	24.1	2.0	ug/l	25.0	ND	96	70-130	5	25	
Dibromomethane	24.2	2.0	ug/l	25.0	ND	97	65-135	4	25	
1,2-Dichlorobenzene	25.2	2.0	ug/l	25.0	ND	101	75-125	4	20	
1,3-Dichlorobenzene	25.6	2.0	ug/l	25.0	ND	102	75-125	6	20	
1,4-Dichlorobenzene	24.9	2.0	ug/l	25.0	ND	99	75-125	5	20	
Dichlorodifluoromethane	21.1	5.0	ug/l	25.0	ND	85	25-155	8	30	

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Project ID: Cherry Ave / 2008-026
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Report Number: IRJ1808

Sampled: 10/14/08
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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J19015 Extracted: 10/19/08										
Matrix Spike Dup Analyzed: 10/19/2008 (8J19015-MSD1)					**Source: IRJ1592-02**					
1,1-Dichloroethane	21.7	2.0	ug/l	25.0	ND	87	65-130	6	20	
1,2-Dichloroethane	22.3	2.0	ug/l	25.0	ND	89	60-140	4	20	
1,1-Dichloroethene	23.6	5.0	ug/l	25.0	ND	94	60-130	3	20	
cis-1,2-Dichloroethene	22.8	2.0	ug/l	25.0	ND	91	65-130	3	20	
trans-1,2-Dichloroethene	24.7	2.0	ug/l	25.0	ND	99	65-130	5	20	
1,3-Dichloropropane	23.1	2.0	ug/l	25.0	ND	93	65-135	4	25	
2,2-Dichloropropane	23.2	2.0	ug/l	25.0	ND	93	60-145	5	25	
1,2-Dichloropropane	23.7	2.0	ug/l	25.0	ND	95	65-130	4	20	
cis-1,3-Dichloropropene	23.8	2.0	ug/l	25.0	ND	95	70-130	4	20	
trans-1,3-Dichloropropene	22.9	2.0	ug/l	25.0	ND	92	65-135	3	25	
1,1-Dichloropropene	23.0	2.0	ug/l	25.0	ND	92	70-135	7	20	
Ethylbenzene	24.5	2.0	ug/l	25.0	ND	98	65-130	7	20	
Hexachlorobutadiene	29.2	5.0	ug/l	25.0	ND	117	60-135	5	20	
Isopropylbenzene	28.1	2.0	ug/l	25.0	ND	112	70-135	8	20	
p-Isopropyltoluene	23.9	2.0	ug/l	25.0	1.04	92	65-130	7	20	
Methylene chloride	22.0	5.0	ug/l	25.0	ND	88	50-135	2	20	
Naphthalene	23.5	5.0	ug/l	25.0	0.510	92	50-140	1	30	
n-Propylbenzene	24.5	2.0	ug/l	25.0	ND	98	70-135	7	20	
Styrene	24.5	2.0	ug/l	25.0	ND	98	50-145	6	30	
1,1,1,2-Tetrachloroethane	24.1	5.0	ug/l	25.0	ND	96	65-140	3	20	
1,1,2,2-Tetrachloroethane	23.3	2.0	ug/l	25.0	ND	93	55-135	6	30	
Tetrachloroethene	24.8	2.0	ug/l	25.0	ND	99	65-130	9	20	
Toluene	23.6	2.0	ug/l	25.0	ND	95	70-125	6	20	
1,2,3-Trichlorobenzene	24.1	5.0	ug/l	25.0	ND	96	60-135	2	20	
1,2,4-Trichlorobenzene	24.9	5.0	ug/l	25.0	ND	100	65-135	2	20	
1,1,1-Trichloroethane	22.6	2.0	ug/l	25.0	ND	90	65-140	4	20	
1,1,2-Trichloroethane	25.9	2.0	ug/l	25.0	ND	104	65-130	4	25	
Trichloroethene	24.8	2.0	ug/l	25.0	ND	99	65-125	5	20	
Trichlorofluoromethane	22.5	5.0	ug/l	25.0	ND	90	60-145	7	25	
1,2,3-Trichloropropane	21.9	10	ug/l	25.0	ND	88	55-135	5	30	
1,2,4-Trimethylbenzene	24.2	2.0	ug/l	25.0	ND	97	55-135	6	25	
1,3,5-Trimethylbenzene	24.8	2.0	ug/l	25.0	ND	99	70-130	6	20	
Vinyl chloride	22.5	5.0	ug/l	25.0	ND	90	45-140	7	30	
m,p-Xylenes	49.0	2.0	ug/l	50.0	ND	98	65-130	6	25	
o-Xylene	24.6	2.0	ug/l	25.0	ND	99	65-125	6	20	
Surrogate: 4-Bromofluorobenzene	*22.9*		*ug/l*	*25.0*		*91*	*80-120*			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J19015 Extracted: 10/19/08										
Matrix Spike Dup Analyzed: 10/19/2008 (8J19015-MSD1)					**Source: IRJ1592-02**					
Surrogate: Dibromofluoromethane	*22.2*		*ug/l*	*25.0*		*89*	*80-120*			
Surrogate: Toluene-d8	*22.7*		*ug/l*	*25.0*		*91*	*80-120*			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5035/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J19012 Extracted: 10/19/08										
Blank Analyzed: 10/19/2008 (8J19012-BLK1)										
Benzene	ND	2.0	ug/kg							
Bromobenzene	ND	5.0	ug/kg							
Bromochloromethane	ND	5.0	ug/kg							
Bromodichloromethane	ND	2.0	ug/kg							
Bromoform	ND	5.0	ug/kg							
Bromomethane	ND	5.0	ug/kg							
n-Butylbenzene	ND	5.0	ug/kg							
tert-Butylbenzene	ND	5.0	ug/kg							
sec-Butylbenzene	ND	5.0	ug/kg							
Carbon tetrachloride	ND	5.0	ug/kg							
Chlorobenzene	ND	2.0	ug/kg							
Chloroethane	ND	5.0	ug/kg							
Chloroform	ND	2.0	ug/kg							
Chloromethane	ND	5.0	ug/kg							
4-Chlorotoluene	ND	5.0	ug/kg							
2-Chlorotoluene	ND	5.0	ug/kg							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/kg							
Dibromochloromethane	ND	2.0	ug/kg							
1,2-Dibromoethane (EDB)	ND	2.0	ug/kg							
Dibromomethane	ND	2.0	ug/kg							
1,2-Dichlorobenzene	ND	2.0	ug/kg							
1,3-Dichlorobenzene	ND	2.0	ug/kg							
1,4-Dichlorobenzene	ND	2.0	ug/kg							
Dichlorodifluoromethane	ND	5.0	ug/kg							
1,1-Dichloroethane	ND	2.0	ug/kg							
1,2-Dichloroethane	ND	2.0	ug/kg							
1,1-Dichloroethene	ND	5.0	ug/kg							
cis-1,2-Dichloroethene	ND	2.0	ug/kg							
trans-1,2-Dichloroethene	ND	2.0	ug/kg							
1,3-Dichloropropane	ND	2.0	ug/kg							
2,2-Dichloropropane	ND	2.0	ug/kg							
1,2-Dichloropropane	ND	2.0	ug/kg							
cis-1,3-Dichloropropene	ND	2.0	ug/kg							
trans-1,3-Dichloropropene	ND	2.0	ug/kg							
1,1-Dichloropropene	ND	2.0	ug/kg							
Ethylbenzene	ND	2.0	ug/kg							

TestAmerica Irvine

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Diaz Yourman
1616 East 17th Street
Santa Ana, CA 92705-8509
Attention: Gary Gilbert

Project ID: Cherry Ave / 2008-026
Cherry Ave / 2008-026
Report Number: IRJ1808

Sampled: 10/14/08
Received: 10/14/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5035/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J19012 Extracted: 10/19/08										
Blank Analyzed: 10/19/2008 (8J19012-BLK1)										
Hexachlorobutadiene	ND	5.0	ug/kg							
Isopropylbenzene	ND	2.0	ug/kg							
p-Isopropyltoluene	ND	2.0	ug/kg							
Methylene chloride	ND	20	ug/kg							
Naphthalene	ND	5.0	ug/kg							
n-Propylbenzene	ND	2.0	ug/kg							
Styrene	ND	2.0	ug/kg							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg							
1,1,2,2-Tetrachloroethane	ND	2.0	ug/kg							
Tetrachloroethene	ND	2.0	ug/kg							
Toluene	ND	2.0	ug/kg							
1,2,3-Trichlorobenzene	ND	5.0	ug/kg							
1,2,4-Trichlorobenzene	ND	5.0	ug/kg							
1,1,1-Trichloroethane	ND	2.0	ug/kg							
1,1,2-Trichloroethane	ND	2.0	ug/kg							
Trichloroethene	ND	2.0	ug/kg							
Trichlorofluoromethane	ND	5.0	ug/kg							
1,2,3-Trichloropropane	ND	10	ug/kg							
1,2,4-Trimethylbenzene	ND	2.0	ug/kg							
1,3,5-Trimethylbenzene	ND	2.0	ug/kg							
Vinyl chloride	ND	5.0	ug/kg							
m,p-Xylenes	ND	2.0	ug/kg							
o-Xylene	ND	2.0	ug/kg							
Surrogate: 4-Bromofluorobenzene	*50.5*		*ug/kg*	*50.0*		*101*	*80-120*			
Surrogate: Dibromofluoromethane	*51.8*		*ug/kg*	*50.0*		*104*	*80-125*			
Surrogate: Toluene-d8	*52.4*		*ug/kg*	*50.0*		*105*	*80-120*			
LCS Analyzed: 10/19/2008 (8J19012-BS1)										**MX**
Benzene	47.2	2.0	ug/kg	50.0		94	65-120			
Bromobenzene	52.5	5.0	ug/kg	50.0		105	75-120			
Bromochloromethane	49.3	5.0	ug/kg	50.0		99	70-135			
Bromodichloromethane	51.4	2.0	ug/kg	50.0		103	70-135			
Bromoform	47.0	5.0	ug/kg	50.0		94	55-135			
Bromomethane	44.1	5.0	ug/kg	50.0		88	60-145			
n-Butylbenzene	49.2	5.0	ug/kg	50.0		98	70-130			
tert-Butylbenzene	53.6	5.0	ug/kg	50.0		107	70-125			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5035/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J19012 Extracted: 10/19/08										
LCS Analyzed: 10/19/2008 (8J19012-BS1)										**MX**
sec-Butylbenzene	50.1	5.0	ug/kg	50.0		100	70-125			
Carbon tetrachloride	58.9	5.0	ug/kg	50.0		118	65-140			
Chlorobenzene	49.4	2.0	ug/kg	50.0		99	75-120			
Chloroethane	45.7	5.0	ug/kg	50.0		91	60-140			
Chloroform	45.9	2.0	ug/kg	50.0		92	70-130			
Chloromethane	47.5	5.0	ug/kg	50.0		95	45-145			
4-Chlorotoluene	53.2	5.0	ug/kg	50.0		106	75-125			
2-Chlorotoluene	52.5	5.0	ug/kg	50.0		105	70-125			
1,2-Dibromo-3-chloropropane	43.7	5.0	ug/kg	50.0		87	50-135			
Dibromochloromethane	50.3	2.0	ug/kg	50.0		101	65-140			
1,2-Dibromoethane (EDB)	50.8	2.0	ug/kg	50.0		102	70-130			
Dibromomethane	48.7	2.0	ug/kg	50.0		97	70-130			
1,2-Dichlorobenzene	51.3	2.0	ug/kg	50.0		103	75-120			
1,3-Dichlorobenzene	51.3	2.0	ug/kg	50.0		103	75-125			
1,4-Dichlorobenzene	49.1	2.0	ug/kg	50.0		98	75-120			
Dichlorodifluoromethane	51.2	5.0	ug/kg	50.0		102	35-160			
1,1-Dichloroethane	47.4	2.0	ug/kg	50.0		95	70-130			
1,2-Dichloroethane	51.6	2.0	ug/kg	50.0		103	60-140			
1,1-Dichloroethene	45.1	5.0	ug/kg	50.0		90	70-125			
cis-1,2-Dichloroethene	45.4	2.0	ug/kg	50.0		91	70-125			
trans-1,2-Dichloroethene	50.3	2.0	ug/kg	50.0		101	70-125			
1,3-Dichloropropane	50.6	2.0	ug/kg	50.0		101	70-125			
2,2-Dichloropropane	54.1	2.0	ug/kg	50.0		108	60-145			
1,2-Dichloropropane	47.7	2.0	ug/kg	50.0		95	70-130			
cis-1,3-Dichloropropene	56.6	2.0	ug/kg	50.0		113	75-125			
trans-1,3-Dichloropropene	52.6	2.0	ug/kg	50.0		105	70-135			
1,1-Dichloropropene	48.5	2.0	ug/kg	50.0		97	70-130			
Ethylbenzene	51.4	2.0	ug/kg	50.0		103	70-125			
Hexachlorobutadiene	47.1	5.0	ug/kg	50.0		94	60-135			
Isopropylbenzene	59.5	2.0	ug/kg	50.0		119	75-130			
p-Isopropyltoluene	49.9	2.0	ug/kg	50.0		100	75-125			
Methylene chloride	40.7	20	ug/kg	50.0		81	55-135			
Naphthalene	47.4	5.0	ug/kg	50.0		95	55-135			
n-Propylbenzene	53.2	2.0	ug/kg	50.0		106	70-130			
Styrene	46.2	2.0	ug/kg	50.0		92	75-130			
1,1,1,2-Tetrachloroethane	51.9	5.0	ug/kg	50.0		104	70-130			

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Cherry Ave / 2008-026
Report Number: IRJ1808

Sampled: 10/14/08
Received: 10/14/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5035/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J19012 Extracted: 10/19/08										
LCS Analyzed: 10/19/2008 (8J19012-BS1)										**MX**
1,1,2,2-Tetrachloroethane	53.9	2.0	ug/kg	50.0		108	55-140			
Tetrachloroethene	47.3	2.0	ug/kg	50.0		95	70-125			
Toluene	47.9	2.0	ug/kg	50.0		96	70-125			
1,2,3-Trichlorobenzene	49.5	5.0	ug/kg	50.0		99	60-130			
1,2,4-Trichlorobenzene	52.9	5.0	ug/kg	50.0		106	70-135			
1,1,1-Trichloroethane	52.9	2.0	ug/kg	50.0		106	65-135			
1,1,2-Trichloroethane	49.8	2.0	ug/kg	50.0		100	65-135			
Trichloroethene	48.0	2.0	ug/kg	50.0		96	70-125			
Trichlorofluoromethane	49.5	5.0	ug/kg	50.0		99	60-145			
1,2,3-Trichloropropane	54.3	10	ug/kg	50.0		109	60-135			
1,2,4-Trimethylbenzene	51.9	2.0	ug/kg	50.0		104	70-125			
1,3,5-Trimethylbenzene	54.8	2.0	ug/kg	50.0		110	70-125			
Vinyl chloride	52.8	5.0	ug/kg	50.0		106	55-135			
m,p-Xylenes	102	2.0	ug/kg	100		102	70-125			
o-Xylene	50.2	2.0	ug/kg	50.0		100	70-125			
Surrogate: 4-Bromofluorobenzene	*50.6*		*ug/kg*	*50.0*		*101*	*80-120*			
Surrogate: Dibromofluoromethane	*52.1*		*ug/kg*	*50.0*		*104*	*80-125*			
Surrogate: Toluene-d8	*52.6*		*ug/kg*	*50.0*		*105*	*80-120*			
LCS Dup Analyzed: 10/19/2008 (8J19012-BSD1)										
Benzene	53.4	2.0	ug/kg	50.0		107	65-120	12	20	
Bromobenzene	59.7	5.0	ug/kg	50.0		119	75-120	13	20	
Bromochloromethane	56.1	5.0	ug/kg	50.0		112	70-135	13	20	
Bromodichloromethane	58.3	2.0	ug/kg	50.0		117	70-135	13	20	
Bromoform	53.6	5.0	ug/kg	50.0		107	55-135	13	25	
Bromomethane	50.6	5.0	ug/kg	50.0		101	60-145	14	20	
n-Butylbenzene	56.1	5.0	ug/kg	50.0		112	70-130	13	20	
tert-Butylbenzene	61.2	5.0	ug/kg	50.0		122	70-125	13	20	
sec-Butylbenzene	57.2	5.0	ug/kg	50.0		114	70-125	13	20	
Carbon tetrachloride	67.8	5.0	ug/kg	50.0		136	65-140	14	20	
Chlorobenzene	56.1	2.0	ug/kg	50.0		112	75-120	13	20	
Chloroethane	52.4	5.0	ug/kg	50.0		105	60-140	13	25	
Chloroform	52.3	2.0	ug/kg	50.0		105	70-130	13	20	
Chloromethane	54.4	5.0	ug/kg	50.0		109	45-145	13	25	
4-Chlorotoluene	60.8	5.0	ug/kg	50.0		122	75-125	13	20	
2-Chlorotoluene	59.8	5.0	ug/kg	50.0		120	70-125	13	20	

TestAmerica Irvine

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Report Number: IRJ1808

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5035/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J19012 Extracted: 10/19/08										
LCS Dup Analyzed: 10/19/2008 (8J19012-BSD1)										
1,2-Dibromo-3-chloropropane	53.0	5.0	ug/kg	50.0		106	50-135	19	30	
Dibromochloromethane	58.0	2.0	ug/kg	50.0		116	65-140	14	20	
1,2-Dibromoethane (EDB)	59.2	2.0	ug/kg	50.0		118	70-130	15	20	
Dibromomethane	55.8	2.0	ug/kg	50.0		112	70-130	14	20	
1,2-Dichlorobenzene	58.2	2.0	ug/kg	50.0		116	75-120	13	20	
1,3-Dichlorobenzene	58.3	2.0	ug/kg	50.0		117	75-125	13	20	
1,4-Dichlorobenzene	56.1	2.0	ug/kg	50.0		112	75-120	13	20	
Dichlorodifluoromethane	59.2	5.0	ug/kg	50.0		118	35-160	14	30	
1,1-Dichloroethane	54.0	2.0	ug/kg	50.0		108	70-130	13	20	
1,2-Dichloroethane	59.1	2.0	ug/kg	50.0		118	60-140	14	20	
1,1-Dichloroethene	51.5	5.0	ug/kg	50.0		103	70-125	13	20	
cis-1,2-Dichloroethene	51.8	2.0	ug/kg	50.0		104	70-125	13	20	
trans-1,2-Dichloroethene	57.6	2.0	ug/kg	50.0		115	70-125	13	20	
1,3-Dichloropropane	57.9	2.0	ug/kg	50.0		116	70-125	14	20	
2,2-Dichloropropane	65.5	2.0	ug/kg	50.0		131	60-145	19	20	
1,2-Dichloropropane	54.0	2.0	ug/kg	50.0		108	70-130	12	20	
cis-1,3-Dichloropropene	64.8	2.0	ug/kg	50.0		130	75-125	14	20	*L*
trans-1,3-Dichloropropene	61.0	2.0	ug/kg	50.0		122	70-135	15	20	
1,1-Dichloropropene	55.4	2.0	ug/kg	50.0		111	70-130	13	20	
Ethylbenzene	58.1	2.0	ug/kg	50.0		116	70-125	12	20	
Hexachlorobutadiene	53.2	5.0	ug/kg	50.0		106	60-135	12	20	
Isopropylbenzene	68.3	2.0	ug/kg	50.0		137	75-130	14	20	*L*
p-Isopropyltoluene	56.7	2.0	ug/kg	50.0		113	75-125	13	20	
Methylene chloride	46.5	20	ug/kg	50.0		93	55-135	13	20	
Naphthalene	54.5	5.0	ug/kg	50.0		109	55-135	14	25	
n-Propylbenzene	61.1	2.0	ug/kg	50.0		122	70-130	14	20	
Styrene	52.6	2.0	ug/kg	50.0		105	75-130	13	20	
1,1,1,2-Tetrachloroethane	58.7	5.0	ug/kg	50.0		117	70-130	12	20	
1,1,2,2-Tetrachloroethane	64.6	2.0	ug/kg	50.0		129	55-140	18	30	
Tetrachloroethene	53.9	2.0	ug/kg	50.0		108	70-125	13	20	
Toluene	54.3	2.0	ug/kg	50.0		109	70-125	12	20	
1,2,3-Trichlorobenzene	55.2	5.0	ug/kg	50.0		110	60-130	11	20	
1,2,4-Trichlorobenzene	59.0	5.0	ug/kg	50.0		118	70-135	11	20	
1,1,1-Trichloroethane	60.6	2.0	ug/kg	50.0		121	65-135	14	20	
1,1,2-Trichloroethane	57.5	2.0	ug/kg	50.0		115	65-135	14	20	
Trichloroethene	54.3	2.0	ug/kg	50.0		109	70-125	12	20	

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VOLATILE ORGANICS by GC/MS (EPA 5035/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J19012 Extracted: 10/19/08										
LCS Dup Analyzed: 10/19/2008 (8J19012-BSD1)										
Trichlorofluoromethane	57.3	5.0	ug/kg	50.0		115	60-145	15	25	
1,2,3-Trichloropropane	65.1	10	ug/kg	50.0		130	60-135	18	25	
1,2,4-Trimethylbenzene	58.9	2.0	ug/kg	50.0		118	70-125	13	20	
1,3,5-Trimethylbenzene	62.7	2.0	ug/kg	50.0		125	70-125	13	20	
Vinyl chloride	59.1	5.0	ug/kg	50.0		118	55-135	11	25	
m,p-Xylenes	115	2.0	ug/kg	100		115	70-125	13	20	
o-Xylene	56.3	2.0	ug/kg	50.0		113	70-125	12	20	
Surrogate: 4-Bromofluorobenzene	*50.3*		*ug/kg*	*50.0*		*101*	*80-120*			
Surrogate: Dibromofluoromethane	*51.7*		*ug/kg*	*50.0*		*103*	*80-125*			
Surrogate: Toluene-d8	*52.0*		*ug/kg*	*50.0*		*104*	*80-120*			
Batch: 8J20023 Extracted: 10/20/08										
Blank Analyzed: 10/20/2008 (8J20023-BLK1)										
Benzene	ND	2.0	ug/kg							
Bromobenzene	ND	5.0	ug/kg							
Bromochloromethane	ND	5.0	ug/kg							
Bromodichloromethane	ND	2.0	ug/kg							
Bromoform	ND	5.0	ug/kg							
Bromomethane	ND	5.0	ug/kg							
n-Butylbenzene	ND	5.0	ug/kg							
tert-Butylbenzene	ND	5.0	ug/kg							
sec-Butylbenzene	ND	5.0	ug/kg							
Carbon tetrachloride	ND	5.0	ug/kg							
Chlorobenzene	ND	2.0	ug/kg							
Chloroethane	ND	5.0	ug/kg							
Chloroform	ND	2.0	ug/kg							
Chloromethane	ND	5.0	ug/kg							
4-Chlorotoluene	ND	5.0	ug/kg							
2-Chlorotoluene	ND	5.0	ug/kg							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/kg							
Dibromochloromethane	ND	2.0	ug/kg							
1,2-Dibromoethane (EDB)	ND	2.0	ug/kg							
Dibromomethane	ND	2.0	ug/kg							
1,2-Dichlorobenzene	ND	2.0	ug/kg							
1,3-Dichlorobenzene	ND	2.0	ug/kg							

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J20023 Extracted: 10/20/08										
Blank Analyzed: 10/20/2008 (8J20023-BLK1)										
1,4-Dichlorobenzene	ND	2.0	ug/kg							
Dichlorodifluoromethane	ND	5.0	ug/kg							
1,1-Dichloroethane	ND	2.0	ug/kg							
1,2-Dichloroethane	ND	2.0	ug/kg							
1,1-Dichloroethene	ND	5.0	ug/kg							
cis-1,2-Dichloroethene	ND	2.0	ug/kg							
trans-1,2-Dichloroethene	ND	2.0	ug/kg							
1,3-Dichloropropane	ND	2.0	ug/kg							
2,2-Dichloropropane	ND	2.0	ug/kg							
1,2-Dichloropropane	ND	2.0	ug/kg							
cis-1,3-Dichloropropene	ND	2.0	ug/kg							
trans-1,3-Dichloropropene	ND	2.0	ug/kg							
1,1-Dichloropropene	ND	2.0	ug/kg							
Ethylbenzene	ND	2.0	ug/kg							
Hexachlorobutadiene	ND	5.0	ug/kg							
Isopropylbenzene	ND	2.0	ug/kg							
p-Isopropyltoluene	ND	2.0	ug/kg							
Methylene chloride	ND	20	ug/kg							
Naphthalene	ND	5.0	ug/kg							
n-Propylbenzene	ND	2.0	ug/kg							
Styrene	ND	2.0	ug/kg							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg							
1,1,2,2-Tetrachloroethane	ND	2.0	ug/kg							
Tetrachloroethene	ND	2.0	ug/kg							
Toluene	ND	2.0	ug/kg							
1,2,3-Trichlorobenzene	ND	5.0	ug/kg							
1,2,4-Trichlorobenzene	ND	5.0	ug/kg							
1,1,1-Trichloroethane	ND	2.0	ug/kg							
1,1,2-Trichloroethane	ND	2.0	ug/kg							
Trichloroethene	ND	2.0	ug/kg							
Trichlorofluoromethane	ND	5.0	ug/kg							
1,2,3-Trichloropropane	ND	10	ug/kg							
1,2,4-Trimethylbenzene	ND	2.0	ug/kg							
1,3,5-Trimethylbenzene	ND	2.0	ug/kg							
Vinyl chloride	ND	5.0	ug/kg							
m,p-Xylenes	ND	2.0	ug/kg							

TestAmerica Irvine

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Attention: Gary Gilbert

Project ID: Cherry Ave / 2008-026
Cherry Ave / 2008-026
Report Number: IRJ1808

Sampled: 10/14/08
Received: 10/14/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5035/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J20023 Extracted: 10/20/08										
Blank Analyzed: 10/20/2008 (8J20023-BLK1)										
o-Xylene	ND	2.0	ug/kg							
Surrogate: 4-Bromofluorobenzene	*49.5*		*ug/kg*	*50.0*		*99*	*80-120*			
Surrogate: Dibromofluoromethane	*55.0*		*ug/kg*	*50.0*		*110*	*80-125*			
Surrogate: Toluene-d8	*47.2*		*ug/kg*	*50.0*		*94*	*80-120*			
LCS Analyzed: 10/20/2008 (8J20023-BS1)										
Benzene	44.3	2.0	ug/kg	50.0		89	65-120			
Bromobenzene	48.6	5.0	ug/kg	50.0		97	75-120			
Bromochloromethane	51.5	5.0	ug/kg	50.0		103	70-135			
Bromodichloromethane	58.6	2.0	ug/kg	50.0		117	70-135			
Bromoform	52.8	5.0	ug/kg	50.0		106	55-135			
Bromomethane	52.8	5.0	ug/kg	50.0		106	60-145			
n-Butylbenzene	48.8	5.0	ug/kg	50.0		98	70-130			
tert-Butylbenzene	45.7	5.0	ug/kg	50.0		91	70-125			
sec-Butylbenzene	46.5	5.0	ug/kg	50.0		93	70-125			
Carbon tetrachloride	63.7	5.0	ug/kg	50.0		127	65-140			
Chlorobenzene	49.8	2.0	ug/kg	50.0		100	75-120			
Chloroethane	46.6	5.0	ug/kg	50.0		93	60-140			
Chloroform	54.0	2.0	ug/kg	50.0		108	70-130			
Chloromethane	39.1	5.0	ug/kg	50.0		78	45-145			
4-Chlorotoluene	48.5	5.0	ug/kg	50.0		97	75-125			
2-Chlorotoluene	48.6	5.0	ug/kg	50.0		97	70-125			
1,2-Dibromo-3-chloropropane	47.4	5.0	ug/kg	50.0		95	50-135			
Dibromochloromethane	55.2	2.0	ug/kg	50.0		110	65-140			
1,2-Dibromoethane (EDB)	53.0	2.0	ug/kg	50.0		106	70-130			
Dibromomethane	52.9	2.0	ug/kg	50.0		106	70-130			
1,2-Dichlorobenzene	49.4	2.0	ug/kg	50.0		99	75-120			
1,3-Dichlorobenzene	47.9	2.0	ug/kg	50.0		96	75-125			
1,4-Dichlorobenzene	46.3	2.0	ug/kg	50.0		93	75-120			
Dichlorodifluoromethane	54.5	5.0	ug/kg	50.0		109	35-160			
1,1-Dichloroethane	47.5	2.0	ug/kg	50.0		95	70-130			
1,2-Dichloroethane	56.7	2.0	ug/kg	50.0		113	60-140			
1,1-Dichloroethene	49.7	5.0	ug/kg	50.0		99	70-125			
cis-1,2-Dichloroethene	48.4	2.0	ug/kg	50.0		97	70-125			
trans-1,2-Dichloroethene	49.1	2.0	ug/kg	50.0		98	70-125			
1,3-Dichloropropane	53.5	2.0	ug/kg	50.0		107	70-125			

TestAmerica Irvine

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Project ID: Cherry Ave / 2008-026
Cherry Ave / 2008-026
Report Number: IRJ1808

Sampled: 10/14/08
Received: 10/14/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5035/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J20023 Extracted: 10/20/08										
LCS Analyzed: 10/20/2008 (8J20023-BS1)										
2,2-Dichloropropane	57.8	2.0	ug/kg	50.0		116	60-145			
1,2-Dichloropropane	42.9	2.0	ug/kg	50.0		86	70-130			
cis-1,3-Dichloropropene	49.6	2.0	ug/kg	50.0		99	75-125			
trans-1,3-Dichloropropene	52.4	2.0	ug/kg	50.0		105	70-135			
1,1-Dichloropropene	50.3	2.0	ug/kg	50.0		101	70-130			
Ethylbenzene	49.9	2.0	ug/kg	50.0		100	70-125			
Hexachlorobutadiene	47.4	5.0	ug/kg	50.0		95	60-135			
Isopropylbenzene	54.4	2.0	ug/kg	50.0		109	75-130			
p-Isopropyltoluene	46.5	2.0	ug/kg	50.0		93	75-125			
Methylene chloride	44.8	20	ug/kg	50.0		90	55-135			
Naphthalene	48.5	5.0	ug/kg	50.0		97	55-135			
n-Propylbenzene	48.1	2.0	ug/kg	50.0		96	70-130			
Styrene	48.5	2.0	ug/kg	50.0		97	75-130			
1,1,1,2-Tetrachloroethane	57.9	5.0	ug/kg	50.0		116	70-130			
1,1,2,2-Tetrachloroethane	48.2	2.0	ug/kg	50.0		96	55-140			
Tetrachloroethene	49.9	2.0	ug/kg	50.0		100	70-125			
Toluene	46.3	2.0	ug/kg	50.0		93	70-125			
1,2,3-Trichlorobenzene	50.4	5.0	ug/kg	50.0		101	60-130			
1,2,4-Trichlorobenzene	50.7	5.0	ug/kg	50.0		101	70-135			
1,1,1-Trichloroethane	58.3	2.0	ug/kg	50.0		117	65-135			
1,1,2-Trichloroethane	49.7	2.0	ug/kg	50.0		99	65-135			
Trichloroethene	49.4	2.0	ug/kg	50.0		99	70-125			
Trichlorofluoromethane	64.6	5.0	ug/kg	50.0		129	60-145			
1,2,3-Trichloropropane	49.7	10	ug/kg	50.0		99	60-135			
1,2,4-Trimethylbenzene	45.9	2.0	ug/kg	50.0		92	70-125			
1,3,5-Trimethylbenzene	47.2	2.0	ug/kg	50.0		94	70-125			
Vinyl chloride	48.5	5.0	ug/kg	50.0		97	55-135			
m,p-Xylenes	91.4	2.0	ug/kg	100		91	70-125			
o-Xylene	47.2	2.0	ug/kg	50.0		94	70-125			
Surrogate: 4-Bromofluorobenzene	*51.1*		*ug/kg*	*50.0*		*102*	*80-120*			
Surrogate: Dibromofluoromethane	*54.7*		*ug/kg*	*50.0*		*109*	*80-125*			
Surrogate: Toluene-d8	*46.9*		*ug/kg*	*50.0*		*94*	*80-120*			

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Cherry Ave / 2008-026
Report Number: IRJ1808

Sampled: 10/14/08
Received: 10/14/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5035/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J20023 Extracted: 10/20/08										
Matrix Spike Analyzed: 10/21/2008 (8J20023-MS1)					**Source: IRJ1811-01**					
Benzene	54.1	2.1	ug/kg	52.6	ND	103	65-130			
Bromobenzene	67.7	5.3	ug/kg	52.6	ND	129	65-140			
Bromochloromethane	64.2	5.3	ug/kg	52.6	ND	122	65-145			
Bromodichloromethane	64.7	2.1	ug/kg	52.6	ND	123	65-145			
Bromoform	58.2	5.3	ug/kg	52.6	ND	111	50-145			
Bromomethane	68.6	5.3	ug/kg	52.6	ND	130	60-155			
n-Butylbenzene	46.0	5.3	ug/kg	52.6	ND	87	55-145			
tert-Butylbenzene	53.5	5.3	ug/kg	52.6	ND	102	60-140			
sec-Butylbenzene	49.2	5.3	ug/kg	52.6	ND	93	60-135			
Carbon tetrachloride	62.2	5.3	ug/kg	52.6	ND	118	60-145			
Chlorobenzene	58.4	2.1	ug/kg	52.6	ND	111	70-130			
Chloroethane	60.8	5.3	ug/kg	52.6	ND	115	60-150			
Chloroform	60.7	2.1	ug/kg	52.6	ND	115	65-135			
Chloromethane	53.6	5.3	ug/kg	52.6	ND	102	40-145			
4-Chlorotoluene	60.3	5.3	ug/kg	52.6	ND	115	65-135			
2-Chlorotoluene	60.8	5.3	ug/kg	52.6	ND	115	60-135			
1,2-Dibromo-3-chloropropane	69.3	5.3	ug/kg	52.6	ND	132	40-150			
Dibromochloromethane	65.9	2.1	ug/kg	52.6	ND	125	60-145			
1,2-Dibromoethane (EDB)	67.7	2.1	ug/kg	52.6	ND	129	65-140			
Dibromomethane	61.2	2.1	ug/kg	52.6	ND	116	65-140			
1,2-Dichlorobenzene	57.7	2.1	ug/kg	52.6	ND	110	70-130			
1,3-Dichlorobenzene	57.3	2.1	ug/kg	52.6	ND	109	70-130			
1,4-Dichlorobenzene	57.0	2.1	ug/kg	52.6	ND	108	70-130			
Dichlorodifluoromethane	52.8	5.3	ug/kg	52.6	ND	100	30-160			
1,1-Dichloroethane	58.2	2.1	ug/kg	52.6	ND	111	65-135			
1,2-Dichloroethane	64.0	2.1	ug/kg	52.6	ND	122	60-150			
1,1-Dichloroethene	55.9	5.3	ug/kg	52.6	ND	106	65-135			
cis-1,2-Dichloroethene	59.7	2.1	ug/kg	52.6	ND	113	65-135			
trans-1,2-Dichloroethene	59.9	2.1	ug/kg	52.6	ND	114	70-135			
1,3-Dichloropropane	67.9	2.1	ug/kg	52.6	ND	129	65-140			
2,2-Dichloropropane	68.2	2.1	ug/kg	52.6	ND	130	65-150			
1,2-Dichloropropane	55.5	2.1	ug/kg	52.6	ND	106	65-130			
cis-1,3-Dichloropropene	59.9	2.1	ug/kg	52.6	ND	114	70-135			
trans-1,3-Dichloropropene	60.6	2.1	ug/kg	52.6	ND	115	60-145			
1,1-Dichloropropene	54.7	2.1	ug/kg	52.6	ND	104	65-135			
Ethylbenzene	56.3	2.1	ug/kg	52.6	ND	107	70-135			

TestAmerica Irvine

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Project ID: Cherry Ave / 2008-026
Cherry Ave / 2008-026
Report Number: IRJ1808

Sampled: 10/14/08
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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5035/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J20023 Extracted: 10/20/08										
Matrix Spike Analyzed: 10/21/2008 (8J20023-MS1)					**Source: IRJ1811-01**					
Hexachlorobutadiene	26.3	5.3	ug/kg	52.6	ND	50	50-145			
Isopropylbenzene	71.7	2.1	ug/kg	52.6	ND	136	70-145			
p-Isopropyltoluene	49.4	2.1	ug/kg	52.6	ND	94	60-140			
Methylene chloride	54.4	21	ug/kg	52.6	ND	103	55-145			
Naphthalene	52.6	5.3	ug/kg	52.6	2.53	95	40-150			
n-Propylbenzene	58.4	2.1	ug/kg	52.6	ND	111	65-140			
Styrene	56.0	2.1	ug/kg	52.6	ND	106	70-140			
1,1,1,2-Tetrachloroethane	67.3	5.3	ug/kg	52.6	ND	128	65-145			
1,1,2,2-Tetrachloroethane	79.6	2.1	ug/kg	52.6	ND	151	40-160			
Tetrachloroethene	53.7	2.1	ug/kg	52.6	ND	102	65-135			
Toluene	53.2	2.1	ug/kg	52.6	ND	101	70-130			
1,2,3-Trichlorobenzene	37.3	5.3	ug/kg	52.6	ND	71	45-145			
1,2,4-Trichlorobenzene	41.9	5.3	ug/kg	52.6	ND	80	50-140			
1,1,1-Trichloroethane	62.2	2.1	ug/kg	52.6	ND	118	65-145			
1,1,2-Trichloroethane	59.9	2.1	ug/kg	52.6	ND	114	65-140			
Trichloroethene	55.5	2.1	ug/kg	52.6	ND	106	65-140			
Trichlorofluoromethane	62.9	5.3	ug/kg	52.6	ND	120	55-155			
1,2,3-Trichloropropane	78.7	11	ug/kg	52.6	ND	149	50-150			
1,2,4-Trimethylbenzene	57.2	2.1	ug/kg	52.6	ND	109	65-140			
1,3,5-Trimethylbenzene	56.7	2.1	ug/kg	52.6	ND	108	65-135			
Vinyl chloride	60.3	5.3	ug/kg	52.6	ND	115	55-140			
m,p-Xylenes	107	2.1	ug/kg	105	ND	102	70-130			
o-Xylene	54.3	2.1	ug/kg	52.6	ND	103	65-130			
Surrogate: 4-Bromofluorobenzene	*47.5*		*ug/kg*	*52.6*		*90*	*80-120*			
Surrogate: Dibromofluoromethane	*57.4*		*ug/kg*	*52.6*		*109*	*80-125*			
Surrogate: Toluene-d8	*46.7*		*ug/kg*	*52.6*		*89*	*80-120*			
Matrix Spike Dup Analyzed: 10/20/2008 (8J20023-MSD1)					**Source: IRJ1811-01**					
Benzene	48.0	2.1	ug/kg	53.2	ND	90	65-130	12	20	
Bromobenzene	56.7	5.3	ug/kg	53.2	ND	107	65-140	18	25	
Bromochloromethane	56.3	5.3	ug/kg	53.2	ND	106	65-145	13	25	
Bromodichloromethane	60.7	2.1	ug/kg	53.2	ND	114	65-145	6	20	
Bromoform	53.2	5.3	ug/kg	53.2	ND	100	50-145	9	30	
Bromomethane	60.8	5.3	ug/kg	53.2	ND	114	60-155	12	25	
n-Butylbenzene	43.8	5.3	ug/kg	53.2	ND	82	55-145	5	30	
tert-Butylbenzene	49.1	5.3	ug/kg	53.2	ND	92	60-140	9	25	

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Report Number: IRJ1808

Sampled: 10/14/08
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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5035/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J20023 Extracted: 10/20/08										
Matrix Spike Dup Analyzed: 10/20/2008 (8J20023-MSD1)					**Source: IRJ1811-01**					
sec-Butylbenzene	46.4	5.3	ug/kg	53.2	ND	87	60-135	6	25	
Carbon tetrachloride	62.1	5.3	ug/kg	53.2	ND	117	60-145	0	25	
Chlorobenzene	50.7	2.1	ug/kg	53.2	ND	95	70-130	14	25	
Chloroethane	53.2	5.3	ug/kg	53.2	ND	100	60-150	13	25	
Chloroform	56.1	2.1	ug/kg	53.2	ND	105	65-135	8	20	
Chloromethane	44.7	5.3	ug/kg	53.2	ND	84	40-145	18	25	
4-Chlorotoluene	53.7	5.3	ug/kg	53.2	ND	101	65-135	12	25	
2-Chlorotoluene	54.5	5.3	ug/kg	53.2	ND	103	60-135	11	25	
1,2-Dibromo-3-chloropropane	55.3	5.3	ug/kg	53.2	ND	104	40-150	23	30	
Dibromochloromethane	58.1	2.1	ug/kg	53.2	ND	109	60-145	13	25	
1,2-Dibromoethane (EDB)	59.0	2.1	ug/kg	53.2	ND	111	65-140	14	25	
Dibromomethane	57.5	2.1	ug/kg	53.2	ND	108	65-140	6	25	
1,2-Dichlorobenzene	51.3	2.1	ug/kg	53.2	ND	96	70-130	12	25	
1,3-Dichlorobenzene	50.4	2.1	ug/kg	53.2	ND	95	70-130	13	25	
1,4-Dichlorobenzene	49.4	2.1	ug/kg	53.2	ND	93	70-130	14	25	
Dichlorodifluoromethane	54.0	5.3	ug/kg	53.2	ND	102	30-160	2	35	
1,1-Dichloroethane	51.4	2.1	ug/kg	53.2	ND	97	65-135	12	25	
1,2-Dichloroethane	60.3	2.1	ug/kg	53.2	ND	113	60-150	6	25	
1,1-Dichloroethene	52.5	5.3	ug/kg	53.2	ND	99	65-135	6	25	
cis-1,2-Dichloroethene	52.4	2.1	ug/kg	53.2	ND	98	65-135	13	25	
trans-1,2-Dichloroethene	52.8	2.1	ug/kg	53.2	ND	99	70-135	13	25	
1,3-Dichloropropane	58.2	2.1	ug/kg	53.2	ND	109	65-140	15	25	
2,2-Dichloropropane	58.9	2.1	ug/kg	53.2	ND	111	65-150	15	25	
1,2-Dichloropropane	48.9	2.1	ug/kg	53.2	ND	92	65-130	13	20	
cis-1,3-Dichloropropene	54.5	2.1	ug/kg	53.2	ND	103	70-135	9	25	
trans-1,3-Dichloropropene	55.9	2.1	ug/kg	53.2	ND	105	60-145	8	25	
1,1-Dichloropropene	51.1	2.1	ug/kg	53.2	ND	96	65-135	7	20	
Ethylbenzene	50.9	2.1	ug/kg	53.2	ND	96	70-135	10	25	
Hexachlorobutadiene	26.8	5.3	ug/kg	53.2	ND	50	50-145	2	35	
Isopropylbenzene	62.0	2.1	ug/kg	53.2	ND	117	70-145	15	25	
p-Isopropyltoluene	45.9	2.1	ug/kg	53.2	ND	86	60-140	7	25	
Methylene chloride	49.5	21	ug/kg	53.2	ND	93	55-145	9	25	
Naphthalene	46.0	5.3	ug/kg	53.2	2.53	82	40-150	13	40	
n-Propylbenzene	53.9	2.1	ug/kg	53.2	ND	101	65-140	8	25	
Styrene	49.0	2.1	ug/kg	53.2	ND	92	70-140	13	25	
1,1,1,2-Tetrachloroethane	60.9	5.3	ug/kg	53.2	ND	115	65-145	10	20	

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Report Number: IRJ1808

Sampled: 10/14/08
Received: 10/14/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5035/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J20023 Extracted: 10/20/08										
Matrix Spike Dup Analyzed: 10/20/2008 (8J20023-MSD1)					**Source: IRJ1811-01**					
1,1,2,2-Tetrachloroethane	63.8	2.1	ug/kg	53.2	ND	120	40-160	22	30	
Tetrachloroethene	50.1	2.1	ug/kg	53.2	ND	94	65-135	7	25	
Toluene	48.4	2.1	ug/kg	53.2	ND	91	70-130	9	20	
1,2,3-Trichlorobenzene	34.9	5.3	ug/kg	53.2	ND	66	45-145	7	30	
1,2,4-Trichlorobenzene	38.4	5.3	ug/kg	53.2	ND	72	50-140	9	30	
1,1,1-Trichloroethane	58.0	2.1	ug/kg	53.2	ND	109	65-145	7	20	
1,1,2-Trichloroethane	55.0	2.1	ug/kg	53.2	ND	103	65-140	9	30	
Trichloroethene	50.6	2.1	ug/kg	53.2	ND	95	65-140	9	25	
Trichlorofluoromethane	62.7	5.3	ug/kg	53.2	ND	118	55-155	0	25	
1,2,3-Trichloropropane	64.3	11	ug/kg	53.2	ND	121	50-150	20	30	
1,2,4-Trimethylbenzene	50.4	2.1	ug/kg	53.2	ND	95	65-140	13	25	
1,3,5-Trimethylbenzene	52.0	2.1	ug/kg	53.2	ND	98	65-135	9	25	
Vinyl chloride	52.9	5.3	ug/kg	53.2	ND	99	55-140	13	30	
m,p-Xylenes	94.1	2.1	ug/kg	106	ND	88	70-130	13	25	
o-Xylene	48.3	2.1	ug/kg	53.2	ND	91	65-130	12	25	
Surrogate: 4-Bromofluorobenzene	*50.1*		*ug/kg*	*53.2*		*94*	*80-120*			
Surrogate: Dibromofluoromethane	*57.9*		*ug/kg*	*53.2*		*109*	*80-125*			
Surrogate: Toluene-d8	*49.0*		*ug/kg*	*53.2*		*92*	*80-120*			

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Diaz Yourman
1616 East 17th Street
Santa Ana, CA 92705-8509
Attention: Gary Gilbert

Project ID: Cherry Ave / 2008-026
Cherry Ave / 2008-026
Report Number: IRJ1808

Sampled: 10/14/08
Received: 10/14/08

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J18050 Extracted: 10/18/08										
Blank Analyzed: 10/19/2008 (8J18050-BLK1)										
Antimony	ND	0.010	mg/l							
Arsenic	ND	0.010	mg/l							
Barium	ND	0.010	mg/l							
Beryllium	ND	0.0040	mg/l							
Cadmium	ND	0.0050	mg/l							
Chromium	ND	0.0050	mg/l							
Cobalt	ND	0.010	mg/l							
Copper	ND	0.010	mg/l							
Lead	ND	0.0050	mg/l							
Molybdenum	ND	0.020	mg/l							
Nickel	ND	0.010	mg/l							
Selenium	ND	0.010	mg/l							
Silver	ND	0.010	mg/l							
Thallium	ND	0.010	mg/l							
Vanadium	ND	0.010	mg/l							
Zinc	ND	0.020	mg/l							
LCS Analyzed: 10/19/2008 (8J18050-BS1)										
Antimony	0.964	0.010	mg/l	1.00		96	80-120			
Arsenic	0.949	0.010	mg/l	1.00		95	80-120			
Barium	0.967	0.010	mg/l	1.00		97	80-120			
Beryllium	0.967	0.0040	mg/l	1.00		97	80-120			
Cadmium	0.928	0.0050	mg/l	1.00		93	80-120			
Chromium	0.952	0.0050	mg/l	1.00		95	80-120			
Cobalt	0.933	0.010	mg/l	1.00		93	80-120			
Copper	0.948	0.010	mg/l	1.00		95	80-120			
Lead	0.966	0.0050	mg/l	1.00		97	80-120			
Molybdenum	0.933	0.020	mg/l	1.00		93	80-120			
Nickel	0.939	0.010	mg/l	1.00		94	80-120			
Selenium	0.931	0.010	mg/l	1.00		93	80-120			
Silver	0.487	0.010	mg/l	0.500		97	80-120			
Thallium	0.974	0.010	mg/l	1.00		97	80-120			
Vanadium	0.949	0.010	mg/l	1.00		95	80-120			
Zinc	0.927	0.020	mg/l	1.00		93	80-120			

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Report Number: IRJ1808

Sampled: 10/14/08
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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J18050 Extracted: 10/18/08										
Matrix Spike Analyzed: 10/19/2008 (8J18050-MS1)					**Source: IRJ1395-01**					
Antimony	0.976	0.020	mg/l	1.00	ND	98	75-125			
Arsenic	0.970	0.020	mg/l	1.00	ND	97	75-125			
Barium	0.986	0.020	mg/l	1.00	ND	99	75-125			
Beryllium	0.987	0.0080	mg/l	1.00	0.00898	98	75-125			
Cadmium	0.932	0.010	mg/l	1.00	ND	93	75-125			
Chromium	0.979	0.010	mg/l	1.00	0.0194	96	75-125			
Cobalt	1.24	0.020	mg/l	1.00	0.289	95	75-125			
Copper	1.75	0.020	mg/l	1.00	0.740	101	75-125			
Lead	0.973	0.010	mg/l	1.00	ND	97	75-125			
Molybdenum	0.934	0.040	mg/l	1.00	ND	93	75-125			
Nickel	1.41	0.020	mg/l	1.00	0.451	95	75-125			
Selenium	0.947	0.020	mg/l	1.00	ND	95	75-125			
Silver	0.503	0.020	mg/l	0.500	ND	101	75-125			
Thallium	0.991	0.020	mg/l	1.00	0.0204	97	75-125			
Vanadium	0.962	0.020	mg/l	1.00	ND	96	75-125			
Zinc	1.58	0.040	mg/l	1.00	0.632	95	75-125			
Matrix Spike Dup Analyzed: 10/19/2008 (8J18050-MSD1)					**Source: IRJ1395-01**					
Antimony	0.991	0.020	mg/l	1.00	ND	99	75-125	2	20	
Arsenic	0.985	0.020	mg/l	1.00	ND	98	75-125	2	20	
Barium	0.984	0.020	mg/l	1.00	ND	98	75-125	0	20	
Beryllium	0.991	0.0080	mg/l	1.00	0.00898	98	75-125	0	20	
Cadmium	0.930	0.010	mg/l	1.00	ND	93	75-125	0	20	
Chromium	0.994	0.010	mg/l	1.00	0.0194	97	75-125	2	20	
Cobalt	1.23	0.020	mg/l	1.00	0.289	94	75-125	1	20	
Copper	1.73	0.020	mg/l	1.00	0.740	99	75-125	1	20	
Lead	0.988	0.010	mg/l	1.00	ND	99	75-125	2	20	
Molybdenum	0.947	0.040	mg/l	1.00	ND	95	75-125	1	20	
Nickel	1.42	0.020	mg/l	1.00	0.451	97	75-125	1	20	
Selenium	0.957	0.020	mg/l	1.00	ND	96	75-125	1	20	
Silver	0.505	0.020	mg/l	0.500	ND	101	75-125	1	20	
Thallium	1.00	0.020	mg/l	1.00	0.0204	98	75-125	1	20	
Vanadium	0.969	0.020	mg/l	1.00	ND	97	75-125	1	20	
Zinc	1.57	0.040	mg/l	1.00	0.632	93	75-125	1	20	

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Attention: Gary Gilbert

Project ID: Cherry Ave / 2008-026
Cherry Ave / 2008-026
Report Number: IRJ1808

Sampled: 10/14/08
Received: 10/14/08

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J20085 Extracted: 10/20/08										
Blank Analyzed: 10/20/2008 (8J20085-BLK1)										
Mercury	ND	0.00020	mg/l							
LCS Analyzed: 10/20/2008 (8J20085-BS1)										
Mercury	0.00743	0.00020	mg/l	0.00800		93	90-115			
Matrix Spike Analyzed: 10/20/2008 (8J20085-MS1)					**Source: IRJ1488-01**					
Mercury	0.00713	0.00020	mg/l	0.00800	ND	89	75-120			
Matrix Spike Dup Analyzed: 10/20/2008 (8J20085-MSD1)					**Source: IRJ1488-01**					
Mercury	0.00727	0.00020	mg/l	0.00800	ND	91	75-120	2	20	
Batch: 8J21069 Extracted: 10/21/08										
Blank Analyzed: 10/21/2008 (8J21069-BLK1)										
Mercury	ND	0.020	mg/kg							
LCS Analyzed: 10/21/2008 (8J21069-BS1)										
Mercury	0.840	0.020	mg/kg	0.800		105	85-120			
Matrix Spike Analyzed: 10/21/2008 (8J21069-MS1)					**Source: IRJ1677-01**					
Mercury	2.85	0.040	mg/kg	0.800	1.89	120	65-135			
Matrix Spike Dup Analyzed: 10/21/2008 (8J21069-MSD1)					**Source: IRJ1677-01**					
Mercury	2.71	0.040	mg/kg	0.800	1.89	102	65-135	5	20	
Batch: 8J22104 Extracted: 10/22/08										
Blank Analyzed: 10/22/2008 (8J22104-BLK1)										
Antimony	ND	10	mg/kg							
Arsenic	ND	2.0	mg/kg							
Barium	ND	1.0	mg/kg							
Beryllium	ND	0.50	mg/kg							
Cadmium	ND	0.50	mg/kg							
Chromium	ND	1.0	mg/kg							
Cobalt	ND	1.0	mg/kg							
Copper	ND	2.0	mg/kg							
Lead	ND	2.0	mg/kg							
Molybdenum	ND	2.0	mg/kg							
Nickel	ND	2.0	mg/kg							
Selenium	ND	2.0	mg/kg							

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J22104 Extracted: 10/22/08										
Blank Analyzed: 10/22/2008 (8J22104-BLK1)										
Silver	ND	1.0	mg/kg							
Thallium	ND	10	mg/kg							
Vanadium	ND	1.0	mg/kg							
Zinc	ND	5.0	mg/kg							
LCS Analyzed: 10/22/2008 (8J22104-BS1)										
Antimony	47.9	10	mg/kg	50.0		96	80-120			
Arsenic	48.1	2.0	mg/kg	50.0		96	80-120			
Barium	48.8	1.0	mg/kg	50.0		98	80-120			
Beryllium	47.5	0.50	mg/kg	50.0		95	80-120			
Cadmium	46.7	0.50	mg/kg	50.0		93	80-120			
Chromium	45.9	1.0	mg/kg	50.0		92	80-120			
Cobalt	47.7	1.0	mg/kg	50.0		95	80-120			
Copper	48.4	2.0	mg/kg	50.0		97	80-120			
Lead	47.0	2.0	mg/kg	50.0		94	80-120			
Molybdenum	44.5	2.0	mg/kg	50.0		89	80-120			
Nickel	46.5	2.0	mg/kg	50.0		93	80-120			
Selenium	43.4	2.0	mg/kg	50.0		87	80-120			
Silver	23.5	1.0	mg/kg	25.0		94	80-120			
Thallium	42.0	10	mg/kg	50.0		84	80-120			
Vanadium	49.7	1.0	mg/kg	50.0		99	80-120			
Zinc	46.0	5.0	mg/kg	50.0		92	80-120			
Matrix Spike Analyzed: 10/22/2008 (8J22104-MS1)					**Source: IRJ1808-01**					
Antimony	46.2	10	mg/kg	50.0	ND	92	75-125			
Arsenic	52.8	2.0	mg/kg	50.0	ND	106	75-125			
Barium	98.7	1.0	mg/kg	50.0	46.7	104	75-125			
Beryllium	49.1	0.50	mg/kg	50.0	0.245	98	75-125			
Cadmium	46.5	0.50	mg/kg	50.0	ND	93	75-125			
Chromium	60.6	1.0	mg/kg	50.0	0.965	119	75-125			
Cobalt	51.4	1.0	mg/kg	50.0	0.364	102	75-125			
Copper	60.6	2.0	mg/kg	50.0	ND	121	75-125			
Lead	51.2	2.0	mg/kg	50.0	ND	102	75-125			
Molybdenum	44.6	2.0	mg/kg	50.0	ND	89	75-125			
Nickel	54.1	2.0	mg/kg	50.0	0.622	107	75-125			
Selenium	43.4	2.0	mg/kg	50.0	ND	87	75-125			
Silver	23.7	1.0	mg/kg	25.0	ND	95	75-125			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J22104 Extracted: 10/22/08										
Matrix Spike Analyzed: 10/22/2008 (8J22104-MS1)					**Source: IRJ1808-01**					
Thallium	42.2	10	mg/kg	50.0	1.65	81	75-125			
Vanadium	75.6	1.0	mg/kg	50.0	ND	151	75-125			*MI*
Zinc	76.8	5.0	mg/kg	50.0	2.66	148	75-125			*MI*
Matrix Spike Dup Analyzed: 10/22/2008 (8J22104-MSD1)					**Source: IRJ1808-01**					
Antimony	47.9	10	mg/kg	50.0	ND	96	75-125	4	20	
Arsenic	54.1	2.0	mg/kg	50.0	ND	108	75-125	2	20	
Barium	98.3	1.0	mg/kg	50.0	46.7	103	75-125	0	20	
Beryllium	50.3	0.50	mg/kg	50.0	0.245	100	75-125	2	20	
Cadmium	47.8	0.50	mg/kg	50.0	ND	96	75-125	3	20	
Chromium	61.1	1.0	mg/kg	50.0	0.965	120	75-125	1	20	
Cobalt	52.5	1.0	mg/kg	50.0	0.364	104	75-125	2	20	
Copper	59.4	2.0	mg/kg	50.0	ND	119	75-125	2	20	
Lead	52.3	2.0	mg/kg	50.0	ND	105	75-125	2	20	
Molybdenum	46.1	2.0	mg/kg	50.0	ND	92	75-125	3	20	
Nickel	54.9	2.0	mg/kg	50.0	0.622	108	75-125	1	20	
Selenium	46.3	2.0	mg/kg	50.0	ND	93	75-125	7	20	
Silver	24.2	1.0	mg/kg	25.0	ND	97	75-125	2	20	
Thallium	44.0	10	mg/kg	50.0	1.65	85	75-125	4	20	
Vanadium	74.9	1.0	mg/kg	50.0	ND	150	75-125	1	20	*MI*
Zinc	74.9	5.0	mg/kg	50.0	2.66	145	75-125	2	20	*MI*
Batch: 8J23167 Extracted: 10/23/08										
Blank Analyzed: 10/24/2008 (8J23167-BLK1)										
Lead	ND	2.0	mg/kg							

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J23167 Extracted: 10/23/08										
LCS Analyzed: 10/24/2008 (8J23167-BS1)										
Lead	46.4	2.0	mg/kg	50.0		93	80-120			
Matrix Spike Analyzed: 10/24/2008 (8J23167-MS1)					**Source: IRJ1613-18**					
Lead	48.8	2.0	mg/kg	50.0	4.32	89	75-125			
Matrix Spike Analyzed: 10/24/2008 (8J23167-MS2)					**Source: IRJ1613-16**					
Lead	61.6	2.0	mg/kg	50.0	29.5	64	75-125			*M2*
Matrix Spike Dup Analyzed: 10/24/2008 (8J23167-MSD1)					**Source: IRJ1613-18**					
Lead	47.5	2.0	mg/kg	50.0	4.32	86	75-125	3	20	
Matrix Spike Dup Analyzed: 10/24/2008 (8J23167-MSD2)					**Source: IRJ1613-16**					
Lead	60.1	2.0	mg/kg	50.0	29.5	61	75-125	2	20	*M2*

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Diaz Yourman	Project ID: Cherry Ave / 2008-026	
1616 East 17th Street	Cherry Ave / 2008-026	Sampled: 10/14/08
Santa Ana, CA 92705-8509	Report Number: IRJ1808	Received: 10/14/08
Attention: Gary Gilbert		

DATA QUALIFIERS AND DEFINITIONS

I	Internal Standard recovery was outside of method limits. Matrix interference was confirmed.
L	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
M1	The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M2	The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
MX	The MS and/or MSD were outside of the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
RL4	Reporting limit raised due to insufficient sample volume.
Z	Due to sample matrix effects, the surrogate recovery was below the acceptance limits.
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

ADDITIONAL COMMENTS

For Volatile Fuel Hydrocarbons (C6-C12):

Volatile Fuel Hydrocarbons (C6-C12) are quantitated against a gasoline standard.

For Extractable Fuel Hydrocarbons (EFH, DRO, ORO) :

Unless otherwise noted, Extractable Fuel Hydrocarbons (EFH, DRO, ORO) are quantitated against a Diesel Fuel Standard.

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Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 6010B	Soil	X	X
EPA 6010B	Water	X	X
EPA 7470A	Water	X	X
EPA 7471A	Soil	X	X
EPA 8015 Mod.	Soil	X	X
EPA 8015 Mod.	Water	X	X
EPA 8015B MOD.	Soil	N/A	N/A
EPA 8015B MOD.	Water	X	X
EPA 8260B	Soil	X	X
EPA 8260B	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

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CHAIN OF CUSTODY FORM

IRJ1808 Page 1 of 3

TAL-0013(1007)

Client Name / Address: Diaz Yourman, 1616 E 17th St. Santa Ana

Project / PO Number: Chevron Ave 2008-026

Project Manager: Gary Gilbert

Phone Number: 714 245 2920

Sampler:

Fax Number:

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	Analysis Required: Lead (EPA 6010)	8015 - Gas & Diesel	VOC 8260	Title 22 Metals	Special Instructions
B-1 @ 0'	soil	SS Tube	1	10/14/08	2:40	NO	X			X	
B-1 @ 1'					2:43		X				
B-1 @ 2'					2:43		X				
B-1 @ 3'			*		2:45			X	X		* ENCORE
B-1 @ 5'					2:55		X				
B-2 @ 0'					2:07		X				
B-2 @ 1'					2:09		X				
B-2 @ 2'					2:13		X				
B-2 @ 5'					2:29		X				
B-3 @ 0'										X	
B-3 @ 1'							X				HE 10-17-08
B-3 @ 2'							X				1430
B-3 @ 5'							X				

Relinquished By: Gary J Gilbert	Date/Time: 5:25 pm 10/14/08	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received in Lab By:	Date/Time: 10/14/08 17:25

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal ____

Sample Integrity: (Check)
intact X on ice 6.2/5.4

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

018

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THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY FORM

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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

TAL-0013(1007)

IRJ1808 Page 2 of 3

Client Name/Address: Diaz Yourman, 1616 E 17TH, Santa Ana, Ca

Project/PO Number: Cherry Ave 2008-026

Project Manager: Gary Gilbert

Sampler:

Phone Number: 714 249 2920

Fax Number:

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	Lead 6010	8015 TPH gas, TPH diesel	VOC 8260	Title 22 Metals	Special Instructions
B-4 @ 0'	Soil	55 tube	1	10/14/08	12:26		X				
B-4 @ 1'					12:29		X				
B-4 @ 2'					12:42		X				
B-4 @ 3'			*		12:59			X	X		EN CORE
B-4 @ 5'					1:09		X				
B-5 @ 0'					12:00					X	
B-5 @ 1'					12:05		X				
B-5 @ 2'					12:06		X				
B-5 @ 3'			*		12:09				X		EN CORE
B-5 @ 5'					12:12		X				
B-6 @ 0'					11:30						
B-6 @ 1'					11:35						
B-6 @ 2'					11:40						
B-6 @ 5'					11:45						

Relinquished By:	Date/Time:	Received By:	Date/Time:	Turnaround Time: (Check)
Gary Gilbert	10/14/08 5:25pm			same day ____ 72 hours ____
Relinquished By:	Date/Time:	Received By:	Date/Time:	24 hours ____ 5 days ____
				48 hours ____ normal X
Relinquished By:	Date/Time:	Received in Lab By:	Date/Time:	Sample Integrity: (Check)
			10/14/08 17:25	intact X on ice 0.4/5.4

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DMCOC

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TestAmerica
ANALYTICAL TESTING CORPORATION

CHAIN OF CUSTODY FORM

IRS1808

Client Name/Address: Diaz Yourman see p. 1

Project/PO Number: Cherry Ave 2008-026

Project Manager:

Phone Number:

Sampler:

Fax Number:

Analysis Required

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	Lead 6010	8015 - TPH Gasoline & diesel	VOC 8260	Title 22 Metals	Special Instructions
B-7 @ 0'	soil	tube	1	10/14/08	12:26		X				
B-7 @ 1'			1		12:29		X				
B-7 @ 2'			1		12:42		X				
B-7 @ 3'		*	*		12:59			X	*		*ENCORE
B-7 @ 5'					1:09		X				
EB-1	Water 500 ml	1-1 liter glass amber 3-40 ml VOC 1 liter plastic			10/14/08	✓		X	X	X	
EB-2	Water	" "			10/14/08	✓		X	X	X	
Trip Blank	Water	40 ml VOC	3		10/14/08	✓			X		

Relinquished By: Date/Time: 10/14/08 5:25 pm

Received By: Date/Time:

Relinquished By: Date/Time:

Received By: Date/Time:

Relinquished By: Date/Time:

Received in Lab By: Date/Time: 10/14/08 17:25

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal ____

Sample Integrity: (Check)
intact X on ice 0.2/5.4

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LABORATORY REPORT

Prepared For: Diaz Yourman
1616 East 17th Street
Santa Ana, CA 92705-8509
Attention: Gary Gilbert

Project: Cherry Ave / 2008-026
Cherry Ave / 2008-026

Sampled: 10/14/08
Received: 10/31/08
Issued: 11/13/08 11:21

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain(s) of Custody, 3 pages, are included and are an integral part of this report.
This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID	CLIENT ID	MATRIX
IRJ3133-01	B-2@0'	Soil
IRJ3133-02	B-3@0'	Soil
IRJ3133-03	B-3@2'	Soil
IRJ3133-04	B-4@0'	Soil
IRJ3133-05	B-4@1'	Soil
IRJ3133-06	B-5@0'	Soil
IRJ3133-07	B-5@1'	Soil
IRJ3133-08	B-5@2'	Soil
IRJ3133-09	B-5@5'	Soil
IRJ3133-10	B-7@0'	Soil
IRJ3133-11	B-7@1'	Soil
IRJ3133-12	B-7@2'	Soil

Reviewed By:

TestAmerica Irvine

Lena Davidkova
Project Manager

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Attention: Gary Gilbert

Project ID: Cherry Ave / 2008-026
Cherry Ave / 2008-026
Report Number: IRJ3133

Sampled: 10/14/08
Received: 10/31/08

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ3133-01 (B-2@0' - Soil)								
Reporting Units: pH Units								
pH	EPA 9045C	8K05076	0.100	**8.09**	1	11/5/2008	11/5/2008	H-1
Sample ID: IRJ3133-02 (B-3@0' - Soil)								
Reporting Units: pH Units								
pH	EPA 9045C	8K03090	0.100	**8.16**	1	11/3/2008	11/3/2008	H3
Sample ID: IRJ3133-03 (B-3@2' - Soil)								
Reporting Units: pH Units								
pH	EPA 9045C	8K03090	0.100	**8.36**	1	11/3/2008	11/3/2008	H3
Sample ID: IRJ3133-06 (B-5@0' - Soil)								
Reporting Units: pH Units								
pH	EPA 9045C	8K03090	0.100	**7.69**	1	11/3/2008	11/3/2008	H3

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TCLP METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	TCLP Limit	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ3133-01 (B-2@0' - Soil)									
Reporting Units: mg/l									
Lead	6010B-TCLP	8K10086	0.10	**0.13**	1	5.0	11/10/2008	11/11/2008	
Sample ID: IRJ3133-02 (B-3@0' - Soil)									
Reporting Units: mg/l									
Lead	6010B-TCLP	8K10086	0.10	**0.31**	1	5.0	11/10/2008	11/11/2008	
Sample ID: IRJ3133-03 (B-3@2' - Soil)									
Reporting Units: mg/l									
Lead	6010B-TCLP	8K10086	0.10	**0.24**	1	5.0	11/10/2008	11/10/2008	
Sample ID: IRJ3133-05 (B-4@1' - Soil)									
Reporting Units: mg/l									
Lead	6010B-TCLP	8K10086	0.10	ND	1	5.0	11/10/2008	11/10/2008	
Sample ID: IRJ3133-06 (B-5@0' - Soil)									
Reporting Units: mg/l									
Lead	6010B-TCLP	8K10086	0.10	ND	1	5.0	11/10/2008	11/10/2008	
Sample ID: IRJ3133-07 (B-5@1' - Soil)									
Reporting Units: mg/l									
Lead	6010B-TCLP	8K10086	0.10	**0.30**	1	5.0	11/10/2008	11/10/2008	
Sample ID: IRJ3133-10 (B-7@0' - Soil)									
Reporting Units: mg/l									
Lead	6010B-TCLP	8K10086	0.10	ND	1	5.0	11/10/2008	11/10/2008	
Sample ID: IRJ3133-11 (B-7@1' - Soil)									
Reporting Units: mg/l									
Lead	6010B-TCLP	8K10086	0.10	ND	1	5.0	11/10/2008	11/10/2008	
Sample ID: IRJ3133-12 (B-7@2' - Soil)									
Reporting Units: mg/l									
Lead	6010B-TCLP	8K10086	0.10	**1.4**	1	5.0	11/10/2008	11/10/2008	

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Sampled: 10/14/08
Received: 10/31/08

STLC METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	STLC Limit	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ3133-01 (B-2@0' - Soil)									
Reporting Units: mg/l									
Lead	6010B-STLC	8K05144	0.10	**8.3**	1	5.0	11/5/2008	11/6/2008	
Sample ID: IRJ3133-02 (B-3@0' - Soil)									
Reporting Units: mg/l									
Lead	6010B-STLC	8K05144	0.10	**48**	1	5.0	11/5/2008	11/6/2008	
Sample ID: IRJ3133-03 (B-3@2' - Soil)									
Reporting Units: mg/l									
Lead	6010B-STLC	8K05144	0.10	**33**	1	5.0	11/5/2008	11/6/2008	
Sample ID: IRJ3133-04 (B-4@0' - Soil)									
Reporting Units: mg/l									
Lead	6010B-STLC	8K05144	0.10	**5.0**	1	5.0	11/5/2008	11/6/2008	
Sample ID: IRJ3133-05 (B-4@1' - Soil)									
Reporting Units: mg/l									
Lead	6010B-STLC	8K05144	0.10	**6.0**	1	5.0	11/5/2008	11/6/2008	
Sample ID: IRJ3133-06 (B-5@0' - Soil)									
Reporting Units: mg/l									
Lead	6010B-STLC	8K05144	0.10	**9.7**	1	5.0	11/5/2008	11/6/2008	
Sample ID: IRJ3133-07 (B-5@1' - Soil)									
Reporting Units: mg/l									
Lead	6010B-STLC	8K05144	0.10	**5.1**	1	5.0	11/5/2008	11/6/2008	
Sample ID: IRJ3133-08 (B-5@2' - Soil)									
Reporting Units: mg/l									
Lead	6010B-STLC	8K05144	0.10	**1.8**	1	5.0	11/5/2008	11/6/2008	
Sample ID: IRJ3133-09 (B-5@5' - Soil)									
Reporting Units: mg/l									
Lead	6010B-STLC	8K05144	0.10	**0.24**	1	5.0	11/5/2008	11/6/2008	
Sample ID: IRJ3133-10 (B-7@0' - Soil)									
Reporting Units: mg/l									
Lead	6010B-STLC	8K05144	0.10	**7.5**	1	5.0	11/5/2008	11/6/2008	

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STLC METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	STLC Limit	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ3133-11 (B-7@1' - Soil)									
Reporting Units: mg/l									
Lead	6010B-STLC	8K05144	0.10	**9.5**	1	5.0	11/5/2008	11/6/2008	
Sample ID: IRJ3133-12 (B-7@2' - Soil)									
Reporting Units: mg/l									
Lead	6010B-STLC	8K05144	0.10	**8.3**	1	5.0	11/5/2008	11/6/2008	

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WASTE EXTRACTION TEST (STLC) - Metals/Inorganics

Analyte	Method	Batch	Extraction Start Date	Extraction End Date	Data Qualifiers
Sample ID: IRJ3133-01 (B-2@0' - Soil)					
Extraction	STLC-Met	8K03125	11/3/2008	11/5/2008	
Sample ID: IRJ3133-02 (B-3@0' - Soil)					
Extraction	STLC-Met	8K03125	11/3/2008	11/5/2008	
Sample ID: IRJ3133-03 (B-3@2' - Soil)					
Extraction	STLC-Met	8K03125	11/3/2008	11/5/2008	
Sample ID: IRJ3133-04 (B-4@0' - Soil)					
Extraction	STLC-Met	8K03125	11/3/2008	11/5/2008	
Sample ID: IRJ3133-05 (B-4@1' - Soil)					
Extraction	STLC-Met	8K03125	11/3/2008	11/5/2008	
Sample ID: IRJ3133-06 (B-5@0' - Soil)					
Extraction	STLC-Met	8K03125	11/3/2008	11/5/2008	
Sample ID: IRJ3133-07 (B-5@1' - Soil)					
Extraction	STLC-Met	8K03125	11/3/2008	11/5/2008	
Sample ID: IRJ3133-08 (B-5@2' - Soil)					
Extraction	STLC-Met	8K03125	11/3/2008	11/5/2008	

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WASTE EXTRACTION TEST (STLC) - Metals/Inorganics

Analyte	Method	Batch	Extraction Start Date	Extraction End Date	Data Qualifiers
Sample ID: IRJ3133-09 (B-5@5' - Soil)					
Extraction	STLC-Met	8K03125	11/3/2008	11/5/2008	
Sample ID: IRJ3133-10 (B-7@0' - Soil)					
Extraction	STLC-Met	8K03125	11/3/2008	11/5/2008	
Sample ID: IRJ3133-11 (B-7@1' - Soil)					
Extraction	STLC-Met	8K03125	11/3/2008	11/5/2008	
Sample ID: IRJ3133-12 (B-7@2' - Soil)					
Extraction	STLC-Met	8K03125	11/3/2008	11/5/2008	

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Received: 10/31/08

TCLP EXTRACTION - Metals

Analyte	Method	Batch	Extraction Start Date	Extraction End Date	Data Qualifiers
Sample ID: IRJ3133-01 (B-2@0' - Soil)					
Extraction	EPA 1311-Met	8K07139	11/7/2008	11/8/2008	
Sample ID: IRJ3133-02 (B-3@0' - Soil)					
Extraction	EPA 1311-Met	8K07139	11/7/2008	11/8/2008	
Sample ID: IRJ3133-03 (B-3@2' - Soil)					
Extraction	EPA 1311-Met	8K07139	11/7/2008	11/8/2008	
Sample ID: IRJ3133-05 (B-4@1' - Soil)					
Extraction	EPA 1311-Met	8K07139	11/7/2008	11/8/2008	
Sample ID: IRJ3133-06 (B-5@0' - Soil)					
Extraction	EPA 1311-Met	8K07139	11/7/2008	11/8/2008	
Sample ID: IRJ3133-07 (B-5@1' - Soil)					
Extraction	EPA 1311-Met	8K07139	11/7/2008	11/8/2008	
Sample ID: IRJ3133-10 (B-7@0' - Soil)					
Extraction	EPA 1311-Met	8K07139	11/7/2008	11/8/2008	
Sample ID: IRJ3133-11 (B-7@1' - Soil)					
Extraction	EPA 1311-Met	8K07139	11/7/2008	11/8/2008	

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Sampled: 10/14/08
Received: 10/31/08

TCLP EXTRACTION - Metals

Analyte	Method	Batch	Extraction Start Date	Extraction End Date	Data Qualifiers
Sample ID: IRJ3133-12 (B-7@2' - Soil)					
Extraction	EPA 1311-Met	8K07139	11/7/2008	11/8/2008	

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METHOD BLANK/QC DATA

TCLP METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8K10086 Extracted: 11/10/08										
Blank Analyzed: 11/11/2008 (8K10086-BLK1)										
Lead	ND	0.10	mg/l							
LCS Analyzed: 11/11/2008 (8K10086-BS1)										
Lead	2.00	0.10	mg/l	2.00		100	80-120			
Matrix Spike Analyzed: 11/11/2008 (8K10086-MS1)					**Source: IRJ3133-01**					
Lead	2.05	0.10	mg/l	2.00	0.133	96	75-125			

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METHOD BLANK/QC DATA

STLC METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8K05144 Extracted: 11/05/08										
Blank Analyzed: 11/06/2008 (8K05144-BLK1)										
Lead	ND	0.10	mg/l							
LCS Analyzed: 11/06/2008 (8K05144-BS1)										
Lead	18.4	0.10	mg/l	20.0		92	80-120			
Matrix Spike Analyzed: 11/06/2008 (8K05144-MS1)					**Source: IRJ3120-01**					
Lead	18.6	0.10	mg/l	20.0	ND	93	75-125			
Matrix Spike Dup Analyzed: 11/06/2008 (8K05144-MSD1)					**Source: IRJ3120-01**					
Lead	18.3	0.10	mg/l	20.0	ND	92	75-125	2	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8K03090 Extracted: 11/03/08										
Duplicate Analyzed: 11/03/2008 (8K03090-DUP1)					**Source: IRJ3133-02**					
pH	8.24	0.100	pH Units		8.16			1	5	*H3*
Batch: 8K05076 Extracted: 11/05/08										
Duplicate Analyzed: 11/05/2008 (8K05076-DUP1)					**Source: IRJ3133-01**					
pH	8.11	0.100	pH Units		8.09			0	5	

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DATA QUALIFIERS AND DEFINITIONS

H-1	Sample analysis performed past the method-specified holding time per client's approval.
H3	Sample was received and analyzed past holding time.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

TestAmerica Irvine

Lena Davidkova
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Diaz Yourman	Project ID: Cherry Ave / 2008-026	
1616 East 17th Street	Cherry Ave / 2008-026	Sampled: 10/14/08
Santa Ana, CA 92705-8509	Report Number: IRJ3133	Received: 10/31/08
Attention: Gary Gilbert		

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
6010B-STLC	Soil	X	X
6010B-TCLP	Soil	X	X
EPA 1311-Met	Soil	X	X
EPA 9045C	Soil	X	X
STLC-Met	Soil	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Irvine

Lena Davidkova
Project Manager

TestAmerica

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1-2

IRJ3133

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Add on! See COC attached!

ADDITIONAL ANALYSIS REQUEST FORM

Date: 10/31 Project Manager: Lena Davidkov

Client: Diaz Yourman Contact:

Project: Cherry Ave 12008-026

Date Sampled: 10/14/08 Date Received: 10/14/08

Request Via:

☐ Telephone ☐ COC Form ☐ Fax ☑ E-mail ☐ Other

Status:

☐ In Progress ☑ Completed ☐ Received Today ☐ Received Yesterday

☐ On Hold ☐ Other

Turn Around Time:

☐ Same Day ☐ 24HR ☐ 48HR ☐ 3Day ☑ 5Day ☐ Standard ☐ No Rush Charge

Work Order Number	Sample Description	Analysis Requested	Special Requirements
IRJ1808-06	B-2@0'	Pb-6010 STLC ~~TCLP~~ If STLC >5 run TCLP pH 9040/9045	
IRJ1808-10	B-3@0'	Pb-STLC pH 9040/9045	
IRJ1808-12	B-3@2'	Pb-STLC pH 9040/9045	US 11/03 12:30
IRJ1808-14	B-4@0'	Pb-STLC	
IRJ1808-15	B-4@1'	Pb-STLC	
IRJ1808-19	B-5@0'	Pb-STLC pH 9040	
IRJ1808-20	B-5@1'	Pb-STLC	
IRJ1808-21	B-5@2'	Pb-STLC	
IRJ1808-22	B-5@5'	Pb-STLC	
IRJ1808-28	B-7@0'	Pb-STLC	

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2 – 2

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ADDITIONAL ANALYSIS REQUEST FORM

Date: 10/31 Project Manager: Lena Davidkov

Client: Diaz Yourman Contact:

Project: Cherry Ave 12008-026

Date Sampled: 10/14 Date Received:

Request Via:

☐ Telephone ☐ COC Form ☐ Fax ☑ E-mail ☐ Other

Status:

☐ In Progress ☑ Completed ☐ Received Today ☐ Received Yesterday

☐ On Hold ☐ Other

Turn Around Time:

☐ Same Day ☐ 24HR ☐ 48HR ☐ 3Day ☑ 5Day ☐ Standard ☐ No Rush Charge

Work Order Number	Sample Description	Analysis Requested	Special Requirements
1RY1808-29	B-7@1'	Pb-STLC	~~If~~ STLC > 5 µm Rush TCH
1RY1808-30	B-7@2'	Pb-STLC	

STLC Extraction - Met.

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CHAIN OF CUSTODY FORM

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1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

TAL-0013(1007)

Client Name/Address:
DIAZ-YOURMAN & ASSOC
1616 E. 17th St
Santa Ana, CA 92705

Project/PO Number:
DYA: 2006-026
TA: IRJ1608

Project Manager:
Clint Isa

Phone Number: (714) 245-2920
cell - (310) 612-4176

Sampler:
Gary Halbert / William Do

Fax Number: (714) 245-2950

Analysis Required

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	STLC/TLC for LEAD	pH	Special Instructions
B-2 @ 0 ft	SOIL	SS TUBE	1	10/14/08	2:07	NONE	X	X	
B-3 @ 0 ft					17:25		X	X	
B-3 @ 2 ft					17:25		X	X	
B-4 @ 0 ft					12:26		X		
B-4 @ 1 ft					12:29		X		
B-5 @ 0 ft					12:00		X	X	
B-5 @ 1 ft					12:05		X		
B-5 @ 2 ft					12:06		X		
B-5 @ 5 ft					12:12		X		
B-7 @ 0 ft					12:26		X		
B-7 @ 1 ft					12:29		X		
B-7 @ 2 ft					12:42		X		

Relinquished By:	Date/Time:	Received By:	Date/Time:
GARY HALBERT	10-14-08 / 5:25 p.m.		
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received In Lab By:	Date/Time:

Turnaround Time: (Check)
same day _____ 72 hours _____
24 hours _____ 5 days X
48 hours _____ normal _____

Sample Integrity: (Check)
Intact _____ on Ice _____

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

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LABORATORY REPORT

Prepared For: Diaz Yourman
1616 East 17th Street
Santa Ana, CA 92705-8509
Attention: Gary Gilbert

Project: Cherry Ave / 2008-026
Cherry Ave / 2008-026

Sampled: 10/14/08
Received: 11/18/08
Issued: 11/25/08 15:02

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.
This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID	CLIENT ID	MATRIX
IRK1773-01	B-6@0'	Soil
IRK1773-02	B-6@1'	Soil
IRK1773-03	B-6@2'	Soil
IRK1773-04	B-6@5'	Soil

Reviewed By:

TestAmerica Irvine

Lena Davidkova
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
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Diaz Yourman
1616 East 17th Street
Santa Ana, CA 92705-8509
Attention: Gary Gilbert

Project ID: Cherry Ave / 2008-026
Cherry Ave / 2008-026
Report Number: IRK1773

Sampled: 10/14/08
Received: 11/18/08

METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRK1773-01 (B-6@0' - Soil)								
Reporting Units: mg/kg								
Lead	EPA 6010B	8K18192	2.0	**270**	1	11/18/2008	11/19/2008	
Sample ID: IRK1773-02 (B-6@1' - Soil)								
Reporting Units: mg/kg								
Lead	EPA 6010B	8K18192	2.0	**690**	1	11/18/2008	11/19/2008	
Sample ID: IRK1773-03 (B-6@2' - Soil)								
Reporting Units: mg/kg								
Lead	EPA 6010B	8K18192	2.0	**110**	1	11/18/2008	11/19/2008	
Sample ID: IRK1773-04 (B-6@5' - Soil)								
Reporting Units: mg/kg								
Lead	EPA 6010B	8K18192	2.0	**13**	1	11/18/2008	11/19/2008	

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Diaz Yourman
1616 East 17th Street
Santa Ana, CA 92705-8509
Attention: Gary Gilbert

Project ID: Cherry Ave / 2008-026
Cherry Ave / 2008-026
Report Number: IRK1773

Sampled: 10/14/08
Received: 11/18/08

TCLP METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	TCLP Limit	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRK1773-01 (B-6@0' - Soil)									
Reporting Units: mg/l									
Lead	6010B-TCLP	8K22035	0.10	**0.19**	1	5.0	11/22/2008	11/25/2008	
Sample ID: IRK1773-02 (B-6@1' - Soil)									
Reporting Units: mg/l									
Lead	6010B-TCLP	8K22035	0.10	**0.58**	1	5.0	11/22/2008	11/25/2008	

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Diaz Yourman
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Santa Ana, CA 92705-8509
Attention: Gary Gilbert

Project ID: Cherry Ave / 2008-026
Cherry Ave / 2008-026
Report Number: IRK1773

Sampled: 10/14/08
Received: 11/18/08

STLC METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	STLC Limit	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRK1773-01 (B-6@0' - Soil)									
Reporting Units: mg/l									
Lead	6010B-STLC	8K24132	0.10	**6.1**	1	5.0	11/24/2008	11/25/2008	
Sample ID: IRK1773-02 (B-6@1' - Soil)									
Reporting Units: mg/l									
Lead	6010B-STLC	8K24132	0.10	**38**	1	5.0	11/24/2008	11/25/2008	
Sample ID: IRK1773-03 (B-6@2' - Soil)									
Reporting Units: mg/l									
Lead	6010B-STLC	8K24132	0.10	**7.1**	1	5.0	11/24/2008	11/25/2008	

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Santa Ana, CA 92705-8509
Attention: Gary Gilbert

Project ID: Cherry Ave / 2008-026
Cherry Ave / 2008-026
Report Number: IRK1773

Sampled: 10/14/08
Received: 11/18/08

WASTE EXTRACTION TEST (STLC) - Metals/Inorganics

Analyte	Method	Batch	Extraction Start Date	Extraction End Date	Data Qualifiers
Sample ID: IRK1773-01 (B-6@0' - Soil)					
Extraction	STLC-Met	8K22074	11/22/2008	11/24/2008	
Sample ID: IRK1773-02 (B-6@1' - Soil)					
Extraction	STLC-Met	8K22074	11/22/2008	11/24/2008	
Sample ID: IRK1773-03 (B-6@2' - Soil)					
Extraction	STLC-Met	8K22074	11/22/2008	11/24/2008	

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Diaz Yourman
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Santa Ana, CA 92705-8509
Attention: Gary Gilbert

Project ID: Cherry Ave / 2008-026
Cherry Ave / 2008-026
Report Number: IRK1773

Sampled: 10/14/08
Received: 11/18/08

TCLP EXTRACTION - Metals

Analyte	Method	Batch	Extraction Start Date	Extraction End Date	Data Qualifiers
Sample ID: IRK1773-01 (B-6@0' - Soil)					
Extraction	EPA 1311-Met	8K21123	11/21/2008	11/22/2008	
Sample ID: IRK1773-02 (B-6@1' - Soil)					
Extraction	EPA 1311-Met	8K21123	11/21/2008	11/22/2008	

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Diaz Yourman
1616 East 17th Street
Santa Ana, CA 92705-8509
Attention: Gary Gilbert

Project ID: Cherry Ave / 2008-026
Cherry Ave / 2008-026
Report Number: IRK1773

Sampled: 10/14/08
Received: 11/18/08

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8K18192 Extracted: 11/18/08										
Blank Analyzed: 11/19/2008 (8K18192-BLK1)										
Lead	ND	2.0	mg/kg							
LCS Analyzed: 11/19/2008 (8K18192-BS1)										
Lead	46.5	2.0	mg/kg	50.0		93	80-120			
Matrix Spike Analyzed: 11/19/2008 (8K18192-MS1)					**Source: IRK0793-01**					
Lead	81.2	2.0	mg/kg	50.0	39.7	83	75-125			
Matrix Spike Dup Analyzed: 11/19/2008 (8K18192-MSD1)					**Source: IRK0793-01**					
Lead	80.6	2.0	mg/kg	50.0	39.7	82	75-125	1	20	

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Diaz Yourman
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Santa Ana, CA 92705-8509
Attention: Gary Gilbert

Project ID: Cherry Ave / 2008-026
Cherry Ave / 2008-026
Report Number: IRK1773

Sampled: 10/14/08
Received: 11/18/08

METHOD BLANK/QC DATA

TCLP METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8K22035 Extracted: 11/22/08										
Blank Analyzed: 11/25/2008 (8K22035-BLK1)										
Lead	ND	0.10	mg/l							
LCS Analyzed: 11/25/2008 (8K22035-BS1)										
Lead	1.88	0.10	mg/l	2.00		94	80-120			
Matrix Spike Analyzed: 11/25/2008 (8K22035-MS1)					**Source: IRK1255-01**					
Lead	2.01	0.10	mg/l	2.00	0.116	94	75-125			

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Diaz Yourman
1616 East 17th Street
Santa Ana, CA 92705-8509
Attention: Gary Gilbert

Project ID: Cherry Ave / 2008-026
Cherry Ave / 2008-026
Report Number: IRK1773

Sampled: 10/14/08
Received: 11/18/08

METHOD BLANK/QC DATA

STLC METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8K24132 Extracted: 11/24/08										
Blank Analyzed: 11/25/2008 (8K24132-BLK1)										
Lead	ND	0.10	mg/l							
LCS Analyzed: 11/25/2008 (8K24132-BS1)										
Lead	18.5	0.10	mg/l	20.0		93	80-120			
Matrix Spike Analyzed: 11/25/2008 (8K24132-MS1)					**Source: IRK1748-01**					
Lead	61.9	0.10	mg/l	20.0	43.9	90	75-125			
Matrix Spike Dup Analyzed: 11/25/2008 (8K24132-MSD1)					**Source: IRK1748-01**					
Lead	60.6	0.10	mg/l	20.0	43.9	83	75-125	2	20	

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Diaz Yourman	Project ID: Cherry Ave / 2008-026	
1616 East 17th Street	Cherry Ave / 2008-026	Sampled: 10/14/08
Santa Ana, CA 92705-8509	Report Number: IRK1773	Received: 11/18/08
Attention: Gary Gilbert		

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

RPD Relative Percent Difference

TestAmerica Irvine

Lena Davidkova
Project Manager

TestAmerica
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Diaz Yourman	Project ID: Cherry Ave / 2008-026	
1616 East 17th Street	Cherry Ave / 2008-026	Sampled: 10/14/08
Santa Ana, CA 92705-8509	Report Number: IRK1773	Received: 11/18/08
Attention: Gary Gilbert		

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
6010B-STLC	Soil	X	X
6010B-TCLP	Soil	X	X
EPA 1311-Met	Soil	X	X
EPA 6010B	Soil	X	X
STLC-Met	Soil	X	X

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IRK1773

ADDITIONAL ANALYSIS REQUEST FORM

Date: 11/18 Project Manager: Lena

Client: Diaz Yourman Contact: Clint Isa

Project: Cherry Ave 2008-026

Date Sampled: 10/14/08 Date Received: 10/14/08

Request Via:

☐ Telephone ☐ COC Form ☐ Fax ☑ E-mail ☐ Other

Status:

☐ In Progress ☑ Completed ☐ Received Today ☐ Received Yesterday

☑ On Hold ☐ Other

Turn Around Time:

☐ Same Day ☑ 24HR ☐ 48HR ☐ 3Day ☐ 5Day ☐ Standard ☐ No Rush Charge

Work Order Number	Sample Description	Analysis Requested	Special Requirements
IRJ1808-24	B-6@0'	Pb-6010B	
IRJ1808-25	B-6@1'		
IRJ1808-26	B-6@2'		
IRJ1808-27	B-6@5'		

Add on!

JW 10/16

APPENDIX D
STATISTICAL CALCULATIONS

Correlation of Existing Soils

Project No.	2008-026
Date	11/17/2008
Computed By	CI
Checked By	GKG

Calculations (Total Lead)

	STLC	TTLC
Number of samples (n)	15	
Mean	13	274
Standard deviation (s)		
s^2 (Variance)	207	95688
s	14	309
Correlation Coefficient		
r	0.96	

Sample no.	X = Soluble Lead (mg/L)	X^2	Y = Total Lead (mg/kg)	Y^2	X*Y
CAB-2 @ 0	8.3	68.89	180	########	1494
CAB-3 @ 0	48	2304	960	921600	46080
CAB-3 @ 2	33	1089	910	828100	30030
CAB-4 @ 0	5	25	82	6724	410
CAB-4 @ 1	6	36	130	16900	780
CAB-5 @ 0	9.7	94.09	180	32400	1746
CAB-5 @ 1	5.1	26.01	66	4356	337
CAB-5 @ 2	1.8	3.24	78	6084	140
CAB-5 @ 5	0.24	0.0576	68	4624	16
CAB-6 @ 0	6.1	37.21	270	72900	1647
CAB-6 @ 1	38	1444	690	476100	26220
CAB-6 @ 2	7.1	50.41	110	12100	781
CAB-7 @ 0	7.5	56.25	120	14400	900
CAB-7 @ 1	9.5	90.25	130	16900	1235
CAB-7 @ 2	8.3	68.89	130	16900	1079
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0		0	0	0	0
0		0	0	0	0
0		0	0	0	0
0		0	0	0	0
0		0	0	0	0
0		0	0	0	0
0		0	0	0	0
Total	193.64	5393.3	4104	2462488	112895
Average	13		274		7526

Project No.	2008-026
Date	11/17/2008
Computed By	CI
Checked By	GKG

Analysis for Existing Soils

Calculations (Total Lead)

		Transformed	Reverse Transformation
Maximum TTLC	960		
Number of samples (n)	28	28	
Mean	153	0.193	
Standard deviation (s)			
s^2 (Variance)	67229	0.144	
s	259	0.379	
$s/(n)^{0.5}$	49	0.072	
Appropriate number of samples (n_i)			
Δ = RT-mean	197		
$n_i = t^2_{10} * s^2/\Delta^2$	0		
Confidence interval (CI)			
CI = mean +/- t_{10} $*s/(n)^{0.5}$			
t for 90%			
Upper CI for 90%		0.193	184
t for 95%		1.703	
Upper CI for 95%		0.315	298

If mean is greater than variance no transformation
If mean is equal to variance use square root transformation
If mean is less than variance use arcsine transformation

* Upper confidence interval is calculated for 90% single-tailed, which is equal to 80% two-tailed

* SWA reports suggests confidence interval for 80%, however confidence interval for 90% single-tailed is appropriate for the subject project

Sample No.	x = Total Lead (mg/kg)	x^2	Total Lead Percent of Maximum	Arcsine Transformation	
				x	x^2
CAB-1 @ 0	0	0	0.000	0.000	0.0000
CAB-1 @ 1	6.1	37.21	0.006	0.006	0.0000
CAB-1 @ 2	6.4	40.96	0.007	0.007	0.0000
CAB-1 @ 5	6.9	47.61	0.007	0.007	0.0001
CAB-2 @ 0	180	32400	0.188	0.189	0.0356
CAB-2 @ 1	7.9	62.41	0.008	0.008	0.0001
CAB-2 @ 2	7.1	50.41	0.007	0.007	0.0001
CAB-2 @ 5	34	1156	0.035	0.035	0.0013
CAB-3 @ 0	960	921600	1.000	1.571	2.4674
CAB-3 @ 1	7.7	59.29	0.008	0.008	0.0001
CAB-3 @ 2	910	828100	0.948	1.247	1.5541
CAB-3 @ 5	47	2209	0.049	0.049	0.0024
CAB-4 @ 0	82	6724	0.085	0.086	0.0073
CAB-4 @ 1	130	16900	0.135	0.136	0.0185
CAB-4 @ 2	21	441	0.022	0.022	0.0005
CAB-4 @ 5	2.9	8.41	0.003	0.003	0.0000
CAB-5 @ 0	180	32400	0.188	0.189	0.0356
CAB-5 @ 1	66	4356	0.069	0.069	0.0047
CAB-5 @ 2	78	6084	0.081	0.081	0.0066
CAB-5 @ 5	68	4624	0.071	0.071	0.0050
CAB-6 @ 0	270	72900	0.281	0.285	0.0813
CAB-6 @ 1	690	476100	0.719	0.802	0.6432
CAB-6 @ 2	110	12100	0.115	0.115	0.0132
CAB-6 @ 5	13	169	0.014	0.014	0.0002
CAB-7 @ 0	120	14400	0.125	0.125	0.0157
CAB-7 @ 1	130	16900	0.135	0.136	0.0185
CAB-7 @ 2	130	16900	0.135	0.136	0.0185
CAB-7 @ 5	7.5	56.25	0.008	0.008	0.0001
0	0	0	0.000	0.000	0.0000
	4271.5	2466825.6		5.410	4.9298

Project No.	2008-026
Date	11/17/2008
Computed By	CI
Checked By	GKG

Analysis for Remaining Soils after Recommended Removals

Calculations (Total Lead)

		Transformed	Reverse Transformation
Maximum TTLC	130		
Number of samples (n)	18	18	
Mean	48	0.483	
Standard deviation (s)			
s^2 (Variance)	2348	0.323	
s	48	0.568	
$s/(n)^{0.5}$	11	0.134	
Appropriate number of samples (n_i)			
Δ = RT-mean	302		
$n_i = t^2_{10} * s^2/\Delta^2$	0		
Confidence interval (CI)			
CI = mean +/- t_{10} *$s/(n)^{0.5}$			
t for 90%			
Upper CI for 90%		0.483	60
t for 95%		1.74	
Upper CI for 95%		0.716	85

If mean is greater than variance no transformation
If mean is equal to variance use square root transformation
If mean is less than variance use arcsine transformation

* Upper confidence interval is calculated for 90% single-tailed, which is equal to 80% two-tailed

* SWA reports suggests confidence interval for 80%, however confidence interval for 90% single-tailed is appropriate for the subject project

Sample No.	x = Total Lead (mg/kg)	x^2	Total Lead Percent of Maximum	Arcsine Transformation	
				x	x^2
0	0	0	0.000	0.000	0.0000
CAB-1 @ 1	6.1	37.21	0.047	0.047	0.0022
CAB-1 @ 2	6.4	40.96	0.049	0.049	0.0024
CAB-1 @ 5	6.9	47.61	0.053	0.053	0.0028
0	0	0	0.000	0.000	0.0000
CAB-2 @ 1	7.9	62.41	0.061	0.061	0.0037
CAB-2 @ 2	7.1	50.41	0.055	0.055	0.0030
CAB-2 @ 5	34	1156	0.262	0.265	0.0700
0	0	0	0.000	0.000	0.0000
0	0	0	0.000	0.000	0.0000
0	0	0	0.000	0.000	0.0000
CAB-3 @ 5	47	2209	0.362	0.370	0.1368
0	0	0	0.000	0.000	0.0000
CAB-4 @ 1	130	16900	1.000	1.571	2.4674
CAB-4 @ 2	21	441	0.162	0.162	0.0263
CAB-4 @ 5	2.9	8.41	0.022	0.022	0.0005
0	0	0	0.000	0.000	0.0000
CAB-5 @ 1	66	4356	0.508	0.533	0.2836
CAB-5 @ 2	78	6084	0.600	0.644	0.4141
CAB-5 @ 5	68	4624	0.523	0.550	0.3030
0	0	0	0.000	0.000	0.0000
0	0	0	0.000	0.000	0.0000
CAB-6 @ 2	110	12100	0.846	1.009	1.0175
CAB-6 @ 5	13	169	0.100	0.100	0.0100
0	0	0	0.000	0.000	0.0000
CAB-7 @ 1	130	16900	1.000	1.571	2.4674
CAB-7 @ 2	130	16900	1.000	1.571	2.4674
CAB-7 @ 5	7.5	56.25	0.058	0.058	0.0033
0	0	0	0.000	0.000	0.0000
	871.8	82142.26		8.689	9.6816

Project No.	2008-026
Date	11/17/2008
Computed By	CI
Checked By	GKG

Analysis of Soils Recommended for Removal

Calculations (Total Lead)

		Transformed	Reverse Transformation
Maximum TTLC	960		
Number of samples (n)	10	10	
Mean	340	0.450	
Standard deviation (s)			
s^2 (Variance)	136543	0.313	
s	370	0.559	
$s/(n)^{0.5}$	117	0.177	
Appropriate number of samples (n_i)			
Δ = RT-mean	10		
$n_i = t^2_{10} * s^2/\Delta^2$	0		
Confidence interval (CI)			
CI = mean +/- t_{10} *$s/(n)^{0.5}$			
t for 90%			
Upper CI for 90%		0.450	418
t for 95%		1.833	
Upper CI for 95%		0.774	671

If mean is greater than variance no transformation
If mean is equal to variance use square root transformation
If mean is less than variance use arcsine transformation

* Upper confidence interval is calculated for 90% single-tailed, which is equal to 80% two-tailed

* SWA reports suggests confidence interval for 80%, however confidence interval for 90% single-tailed is appropriate for the subject project

Sample No.	x = Total Lead (mg/kg)	x^2	Total Lead Percent of Maximum	Arcsine Transformation	
				x	x^2
CAB-1 @ 0	0	0	0.000	0.000	0.0000
0	0	0	0.000	0.000	0.0000
0	0	0	0.000	0.000	0.0000
0	0	0	0.000	0.000	0.0000
CAB-2 @ 0	180	32400	0.188	0.189	0.0356
0	0	0	0.000	0.000	0.0000
0	0	0	0.000	0.000	0.0000
0	0	0	0.000	0.000	0.0000
CAB-3 @ 0	960	921600	1.000	1.571	2.4674
CAB-3 @ 1	7.7	59.29	0.008	0.008	0.0001
CAB-3 @ 2	910	828100	0.948	1.247	1.5541
0	0	0	0.000	0.000	0.0000
CAB-4 @ 0	82	6724	0.085	0.086	0.0073
0	0	0	0.000	0.000	0.0000
0	0	0	0.000	0.000	0.0000
0	0	0	0.000	0.000	0.0000
CAB-5 @ 0	180	32400	0.188	0.189	0.0356
CAB-6 @ 0	270	72900	0.281	0.285	0.0813
CAB-6 @ 1	690	476100	0.719	0.802	0.6432
0	0	0	0.000	0.000	0.0000
CAB-7 @ 0	120	14400	0.125	0.125	0.0157
0	0	0	0.000	0.000	0.0000
0	0	0	0.000	0.000	0.0000
0	0	0	0.000	0.000	0.0000
0	0	0	0.000	0.000	0.0000
0	0	0	0.000	0.000	0.0000
0	0	0	0.000	0.000	0.0000
0	0	0	0.000	0.000	0.0000
0	0	0	0.000	0.000	0.0000
	3399.7	2384683.3		4.501	4.8402

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QUALITY CONTROL REVIEWER

Allen M. Yourman, Jr., P.E., G.E.
Principal

CI/GKG/AMY:cfp

State of California
Agency

Business, Transportation and Housing

M e m o r a n d u m

Flex your power!
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To: Mr. Hamid Saadatnejadi, Senior T.E.
D7 Office of Maintenance Engineering

Date: March 24, 2010

File: 07-LA-405-PM 0.45
EA 07 930322
SD5919405000.45

Attn: Mr. Xerxes Banduk, Maintenance Region Engineer

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

Subject: SLOPE REVIEW at 07-LA-NB405 P.M. 0.45, Studdebaker St. UC, Bridge #53-1187

As requested, a field review (ISA) was conducted on March 5, 2010, to evaluate the fill slope conditions at the Abutments 1 and 5 of Studdebaker Street bridge along the northbound lane of LA-405 San Diego Freeway at P.M. 0.45.

The fill slope is part of the Studdebaker Street Undercrossing (UC) and is located next to bridge structure (Br. #53-1187). The abutment is approximately 15 feet high with an overall slope ratio of 1.5H:1V. The slope material consists of sandy silt with some clay. The slope bears no vegetation below the structure. Based on field observations the slope appears to be grossly stable in general at the present time. However, moderate erosion of the fill slope material due to a concentrated surface water flow from the top of the structure has occurred.

Recommendations

This erosion process will continue if no mitigative measure is taken. We highly recommend that an emergency project be initiated to reconstruct this section of the fill slope following Section 19 of the Standard Specifications. In order to avoid furter erosion, we recommend that HQ-Structure Maintenance be made aware of this erosion problem and request them to review the site and provide recommendations for the abutments. D7 Hydraulics should be consulted for the fill slope abutments drainage recommendations.

If you have any questions and/or further assistance is required please contact Tatjana Halda at (213) 620-2347 or Shiva Karimi at (213) 620-2146.

Prepared by: Date: 4/12/10

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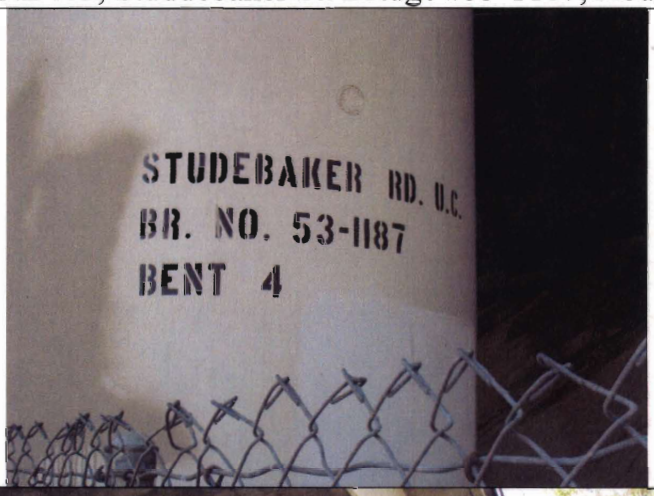
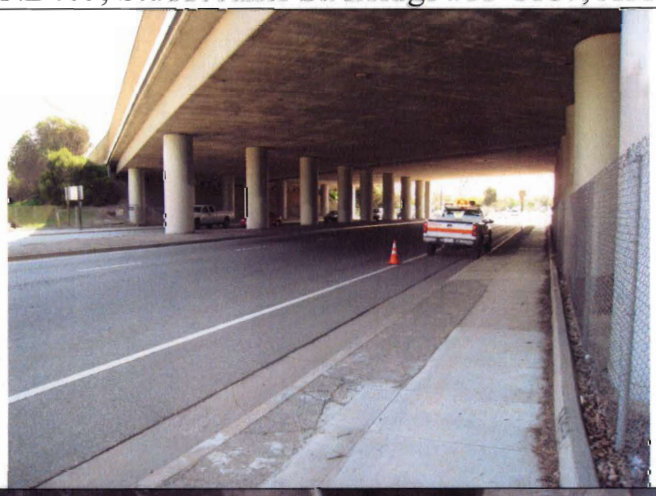
07-LA-NB405, Studdebaker St. Bridge #53-1187, Abutment 5



07-LA-NB405, Studdebaker St. Bridge #53-1187, Abutment 1



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To: Mr. Hamid Saadatnejadi, Senior T.E.
D7 Office of Maintenance Engineering

Date: March 29, 2010

File: 07-LA-405-PM 2.7
EA 07 930322
SD5919405002.7

Attn: Mr. Xerxes Banduk, Maintenance Region Engineer

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

Subject: SLOPE REVIEW at 07-LA-NB405 P.M. 2.7, Willow Street Bridge #53-1480

As requested, a field review (ISA) was conducted on March 5, and 8, 2010, to evaluate the fill slope conditions at the Abutment 1 of Willow Street bridge, between Clark Str. and Lakewood Blvd., along the northbound lane of LA-405 San Diego Freeway at P.M. 2.7.

The fill slope is part of the Willow Street Undercrossing (UC) and is located next to bridge structure (Br. #53-1480). The abutment is approximately 20 feet high with an overall slope ratio of 1.5H:1V. The slope material consists of sandy silt with some clay. The slope bears no vegetation below the structure. Based on field observations the slope appears to be grossly stable in general at the present time. However, moderate to severe erosion of the fill slope material due to a concentrated surface water flow from the top along the northeast-side of the structure has occurred, exposing the foundation of Abutment 1 of the subject bridge structure.

Recommendations

This erosion process will continue if no mitigative measure is taken. We highly recommend that an emergency project be initiated to reconstruct this section of the fill slope following Section 19 of the Standard Specifications. In order to avoid furter erosion, we recommend that HQ-Structure Maintenance be made aware of this erosion problem and request them to review the site and provide recommendations for the abutment. D7 Hydraulics should be consulted for the fill slope abutment drainage recommendations on this side of abutment.

If you have any questions and/or further assistance is required please contact Tatjana Halda at (213) 620-2347 or Shiva Karimi at (213) 620-2146.

Prepared by: Date: 4/12/10

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Attachments

07-LA-NB405, Willow Street UC #53-1480, Abutment 1 northeast-side

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To: Mr. Hamid Saadatnejadi, Senior T.E.
D7 Office of Maintenance Engineering

Date: March 29, 2010

File: 07-LA-405-PM 2.9
EA 07 930322
SD5919405002.9

Attn: Mr. Xerxes Banduk, Maintenance Region Engineer

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

Subject: **SLOPE REVIEW at 07-LA-NB405 P.M. 2.9, Willow Street Bridge #53-1480**

As requested, a field review (ISA) was conducted on March 5, and 8, 2010, to evaluate the fill slope conditions at the Abutment 5 of Willow Street bridge along the northbound lane of LA-405 San Diego Freeway at P.M. 2.9.

The fill slope is part of the Willow Street Undercrossing (UC) and is located next to bridge structure (Br. #53-1480). The abutment is approximately 20 feet high with an overall slope ratio of 1.5H:1V. The slope material consists of sandy silt with some clay. The slope bears no vegetation below the structure. Based on field observations the slope appears to be grossly stable in general at the present time. However, moderate to severe erosion of the fill slope material due to a concentrated surface water flow from the top along the northeast-side of the structure has occurred, exposing the foundation of Abutment 5 of the subject bridge structure. The northwest-side of the fill slope abutment experienced minor to moderate erosion.

Recommendations

This erosion process will continue if no mitigative measure is taken. We highly recommend that an emergency project be initiated to reconstruct this section of the fill slope following Section 19 of the Standard Specifications. In order to avoid furter erosion, we recommend that HQ-Structure Maintenance be made aware of this erosion problem and request them to review the site and provide recommendations for the abutment. D7 Hydraulics should be consulted for the fill slope abutment drainage recommendations on this side of abutment.

If you have any questions and/or further assistance is required please contact Tatjana Halda at (213) 620-2347 or Shiva Karimi at (213) 620-2146.

Prepared by: Date: 4/12/10

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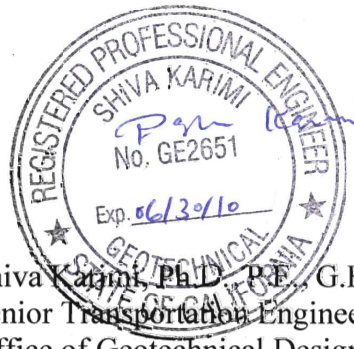
Supervised by: Date: 4/12/10



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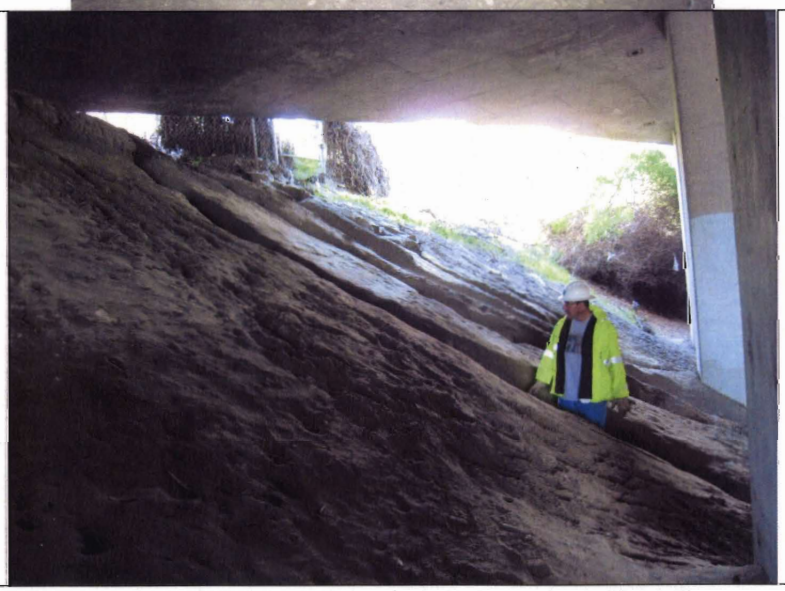
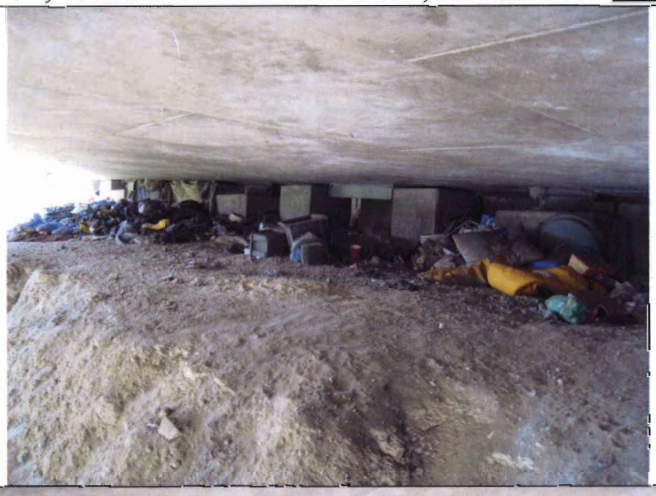
07-LA-NB405, Willow Street UC #53-1480, Abutment 5 northeast-side



07-LA-NB405, Willow Str. UC #53-1480, Abutment 5 northwest-side



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To: Mr. Hamid Saadatnejadi, Senior T.E.
D7 Office of Maintenance Engineering

Date: March 29, 2010

File: 07-LA-405-PM 7.3
EA 07 930322
SD5919405007.3

Attn: Mr. Xerxes Banduk, Maintenance Region Engineer

From: **DEPARTMENT OF TRANSPORTATION**
DIVISION OF ENGINEERING SERVICES
Geotechnical Services
Office of Geotechnical Design - South 1
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Subject: **SLOPE REVIEW at 07-LA-NB405 P.M. 7.3, LA River Bridge**

As requested, a field review (ISA) was conducted on March 4, and 8, 2010, to evaluate the fill slope conditions along the northbound lane of LA-405 San Diego Freeway at P.M. 7.3.

The fill slope is part of the N/B 405 Freeway to N/B 710 Freeway Connector and is located next to bridge structure (Br. #53-1209). The abutment is approximately 15 feet high with an overall slope ratio of 2H:1V. The slope material consists of sandy silt with some clay. The slope bears some vegetation on the side and no vegetation below the structure. Based on field observations the slope appears to be grossly stable in general at the present time. However, severe erosion of the fill slope material due to a concentrated surface water flow from the top along the northeast-side of the structure has occurred, exposing the foundation of Abutment 1 of the subject bridge structure.

Recommendations

This erosion process will continue if no mitigative measure is taken. We highly recommend that an emergency project be initiated to reconstruct this section of the fill slope following Section 19 of the Standard Specifications. In order to avoid furter erosion, we recommend that HQ-Structure Maintenance be made aware of this erosion problem and request them to review the site and provide recommendations for the abutment. D7 Hydraulics should be consulted for the fill slope abutment drainage recommendations on this side of abutment.

The northwest-side of the fill slope abutment has also experienced moderate erosion. Based on the field observations it appears to be related to the less height of the berm at the top of the slope and surface water flow from the top. In order to avoid further erosion on this side of the fill slope abutment, increasing the hight of the berm at the top of the slope or the construction of a drainage drop-inlet at this location is advisable. D7 Hydraulics should be consulted for this matter.

Failure to repair this fill slope could jeopardize the integrity of the abutment foundation and could result in partial or full closure of the connector lanes. If you have any questions and/or further assistance is required please contact Tatjana Halda at (213) 620-2347 or Shiva Karimi at (213) 620-2146.

Prepared by: Date: 4/01/10

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07-LA-NB405, LA River Bridge #53-1209, Abutment 1 northeast-side

07-LA-NB405, LA River Bridge #53-1209, Abutment 1 northeast-side

07-LA-NB405, LA River Bridge #53-1209, Abutment 1 northwest-side

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To: Mr. Hamid Saadatnejadi, Senior T.E.
D7 Office of Maintenance Engineering

Date: March 24, 2010

File: 07-LA-405-PM 10.5
EA 07 930322
SD5919405010.5

Attn: Mr. Xerxes Banduk, Maintenance Region Engineer

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

Subject: SLOPE REVIEW at 07-LA-SB405 P.M. 10.5, South of Carson On-Ramp

A field review (ISA) was conducted on March 5, and 8, 2010, to evaluate the fill slope condition just south of Carson On-Ramp, PM10.5 along southbound 405 Route, in LA County.

The fill slope along the subject location is approximately 10 to 15 ft high with an overall slope ratio 2H:1V. The slope material consists of silty sands and clayey sands. The slope bears some irrigated ice plants. Based on field observations the slope appears to be grossly stable in general at the present time. There is a concrete paved channel for collection of surface water at the bottom of slope.

Moderate erosion and washout of the fill material has occurred at one location along the slope for approximately top 20 ft down the slope. Portions of shoulder had failed at the top of eroded slope for about 12 ft in length. The primary cause of erosion of the fill material is concentrated water flow from heavy rain down the slopes.

Recommendations

This erosion process will continue if no mitigative measure is taken. We highly recommend that an emergency project be initiated to reconstruct this section of the fill slope following Section 19 of the Standard Specifications. Prior to slope reconstruction and in order to avoid further erosion slope need to be cleaned from the debris and loose soil should be removed. Portions of failed shoulder need to be repaired. Engaging the Landscape Design for replanting and vegetation should be done when slopes are reconstructed to its original state.

Failure to repair this fill slope could jeopardize the safety of passing vehicles on the roadway and could result in partial closure of the roadway. If you have any questions and/or further assistance is required please contact Tatjana Halda at (213) 620-2347 or Shiva Karimi at (213) 620-2146.

Prepared by: Date: 3-26-2010

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Supervised by: Date: 03/25/10

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Attachments

07-LA-SB405, JSO Carson On-Ramp, erosion-washout of cut slope

07-LA-SB405, JSO Carson On-Ramp, concrete channel at the bottom of slope

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To: Mr. Hamid Saadatnejadi, Senior T.E.
D7 Office of Maintenance Engineering

Date: March 24, 2010

File: 07-LA-405-PM 4.3-4.5
EA 07 930322
SD5919405004.3

Attn: Mr. Xerxes Banduk, Maintenance Region Engineer

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

Subject: SLOPE REVIEW at 07-LA-SB405 P.M. 4.3-4.5, Between Temple and Spring St.

A field review (ISA) was conducted on March 5, and 8, 2010, to evaluate the fill slope condition on top of retaining wall between Temple and Spring Street, PM 4.3-4.5 along southbound 405 Route, in LA County.

The fill slope on top of retaining wall at the subject location is approximately 6 ft high with an overall slope ratio 2H:1V. Retaining wall is approximately 22 to 24 ft height. The slope material consists of silty sands to sandy silts. The slope is sparsely vegetated. Based on field observations the slope on top of retaining wall appears to be grossly stable in general at the present time. There is a concrete paved channel for collection of surface water from the City of Long Beach Public Works yard at the top of slope.

Moderate to severe erosion and washout of the fill material has occurred along the slope causing the gullies. Sandy soil was washed out down the slope and retaining wall to the roadway during the recent heavy storm. The primary cause of erosion of the fill material is concentrated water flow from heavy rain down the slopes. This erosion was additionally induced by water from the contractor's water pump of the on going City of Long Beach's Public Works construction drainage project. This issue was referenced by our Office in another report (1-6-2010) issued for an adjacent slope erosion along the southbound lanes of LA-405 San Diego Freeway at Temple Avenue OC, P.M. 4.33

Recommendations

The City of Long Beach Public Works should be made aware of these issues, and their contractor should be requested immediately to implement and/or improve their NPDES and BMPs in order to avoid mud from entering on the travelled way of the Freeway.
We highly recommend that an emergency project be initiated to reconstruct this section of the fill slope following Section 19 of the Standard Specifications. Engaging the Landscape Design for replanting and vegetation should be done when slopes are reconstructed to its

original state. The concrete channel, above the slopes, need to be inspected for damages and repaired if needed, and should be kept clean to avoid flooding during the future rainy season.

If you have any questions and/or further assistance is required please contact Tatjana Halda at (213) 620-2347 or Shiva Karimi at (213) 620-2146.

Prepared by: Date: 03/29/10

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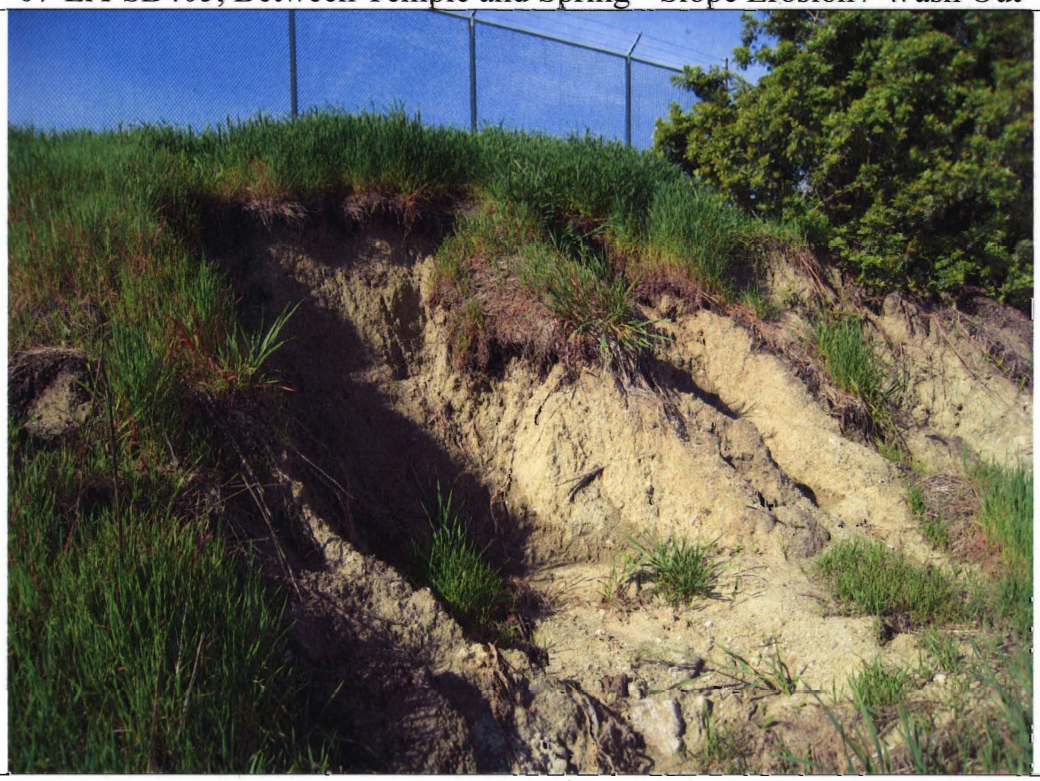
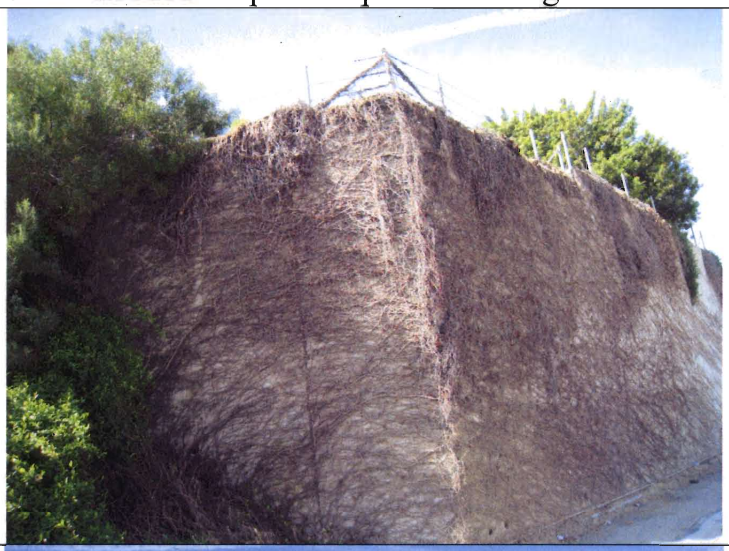
Attachments

07-LA-SB405, Between Temple and Spring - Slope Erosion / Wash Out



Eroded Slope on top of Retaining Wall



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

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To: MR. ORLANCE C. LEE
Senior Transportation Engineer
District 07, Office of Design C

Date: August 30, 2011

File: 07-LA-405-PM 4.9
EA: 07-2X9501
Proj. No. 07000209201
Storm Damage

Attn: Mr. Matt Liao

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

Subject: SLOPE REVIEW at 07-LA-SB405 P.M. 4.9, Cherry Ave. On-Ramp

As requested, Office of Geotechnical Design South 1 (OGDS1) representatives visited the subject slope site located at southbound Cherry Avenue On-Ramp to southbound Route 405 at Post Mile 4.9 on July 20, 2011.

The eroded slope area is approximately 115 feet long measured along the north side shoulder of the On-ramp to Route 405. The descending fill slope is approximately 15 to 20 feet high with an overall existing slope ratio of 1H:1V. The slope surface material consists of silty fine sand with some clay and gravel. The slope bears some vegetation in the surface. Based on field observations the slope appears to be globally stable at the present time.

OGDS1 believes that erosion of the fill slope material is due to the heavy rain storms and concentrated surface water runoff from the top of the slope.

Recommendations

OGDS1 recommends that eroded area of slope face be regarded to slope ratio of 1.5 H:1V in accordance with Section 19 of Caltrans Standard Specifications (May 2006).

1. Loose and soft materials should be removed from eroded slope area. The depths and extents of removal should be identified in the field by OGDS1 representative.

2. Upon completion of the removals, a shear key should be excavated at the bottom of the slope along the entire length of slope. The width and depth of shear key will be determined by OGDS1 representative.

3. Exposed slope surface should be benched with bench heights no greater than 3 feet.

4. A subdrain should be placed along the slope bottom. The subdrain should consist of Schedule 80 (or 40), perforated PVS pipe having a diameter of 4 inches, encased in a minimum 1 cubic foot/foot length of ¾ inch gravel that is wrapped in geotextile.

5. Properly moisture conditioned fill should be placed in horizontal layers that are no more that 8 inches in thickness, and should be compacted to 95% relative compaction in accordance to Caltrans 216 test method.

6. In order to avoid creeping of the new fill, use of geogrid is required. The vertical spacing between geogrids should be approximately 3 feet.

7. The grade above the slope should be constructed to drain away from slope face.

If you have any questions and/or further assistance is required please contact Akbar Mehrazar at (949) 440-3415 or Shiva Karimi at (213) 620-2146.

Prepared by: Date: 8/30/11

A Mehrazar

Akbar Mehrazar
Transportation Engineer
Office of Geotechnical Design South 1
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Supervised by: Date: 8/30/11

P Shiva Karimi

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Attachments: Figure 1 and Figure 2

cc:

District R.E Pending file		TBD
GS Corporate	Mark Willian	Mark_Willian@dot.ca.gov
District 07 Materials Engineer	Kristen Stahl	Kristen_Stahl@dot.ca.gov

Figure 1: 07-LA-405-PM 4.9, SB Cherry Ave On-Ramp to Route 405

Figure 2: 07-LA-405-PM 4.9, SB Cherry Ave On-Ramp to Route 405

@ Top of Slope - Concrete Channel along the City of Long Beach Public Works Yard

State of California
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To: Mr. Hamid Saadatnejadi, Senior T.E.
D7 Office of Maintenance Engineering

Date: March 24, 2010

File: 07-LA-405-PM 4.7
EA 07 930322
SD5919405004.7

Attn: Mr. Xerxes Banduk, Maintenance Region Engineer

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

Subject: SLOPE REVIEW at 07-LA-SB405 P.M. 4.7, Cherry Ave. Off-Ramp

A field review (ISA) was conducted on March 4, and 6, 2010, to evaluate the cut slope condition at the Cherry Ave. Off-Ramp, along southbound 405 Route, in LA County.

The cut slope along the subject locations is approximately 20 to 25 ft high with an overall slope ratio 2H:1V. The slope material consists of silty sands, sandy silts, and clayey sand. The slope bears some irrigated ice plants. Based on field observations the slope appears to be grossly stable in general at the present time. There is a concrete paved V ditch channel for collection of surface water at top of the slope.

Moderate to severe erosion and washout of the cut material has occurred along the slope causing gullies. Sandy soil was washed out to the bottom of slope and over the roadway during recent heavy storm. The primary cause of erosion of the cut material is concentrated water flow from heavy rain down the slopes at all eroded locations. Numerous interconnected gopher holes were noticed on the slopes. Subsequent flooding caused piping within the interconnected burrows with resulting significant enlargement of holes and slope erosion.

Recommendations

This erosion process will continue if no mitigative measure is taken. We highly recommend that an emergency project be initiated to reconstruct these sections of the cut slopes following Section 19 of the Standard Specifications. Prior to slope reconstruction and in order to avoid further erosion slopes need to be cleaned from the debris and loose soil should be removed. Office of Maintenance-D07 should evaluate gophers impact in respect to slope erosion and take an appropriate measures if required. Engaging the Landscape Design for replanting and vegetation should be done when slopes are reconstructed to its original state.

Failure to repair this cut slopes could jeopardize the safety of passing vehicles on the roadway during the rainy season and could result in partial closure of the roadway. If you have any questions and/or further assistance is required please contact Tatjana Halda at (213) 620-2347 or Shiva Karimi at (213) 620-2146.

Prepared by: Date:

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Attachments

07-LA-SB405, Cherry Ave. Off-Ramp

07-LA-SB405, Cherry Ave. Off-Ramp

State of California
Agency

Business, Transportation and Housing

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To: Mr. Hamid Saadatnejadi, Senior T.E.
D7 Office of Maintenance Engineering

Date: March 24, 2010

File: 07-LA-405-PM 5.6-5.9
EA 07 930322
SD5919405005.6-5.9

Attn: Mr. Xerxes Banduk, Maintenance Region Engineer

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

Subject: SLOPE REVIEW at 07-LA-SB405 P.M. 5.6-5.9, Between Atlantic and Orange

A field review (ISA) was conducted on March 4, and 8, 2010, to evaluate the cut slope condition between the Atlantic Blvd Slip Ramp and Orange Ave. Off-Ramp, along southbound 405 Route, in LA County.

The cut slope along the subject locations is approximately 28 ft high with an overall slope ratio 2H:1V. The slope material consists of silty sands, sandy silts, and clayey sand. The slope bears some irrigated ice plants. Based on field observations the slope appears to be grossly stable in general at the present time. There is a cleaned and concrete paved V ditch channel for collection of surface water at top of the slope.

Moderate to severe erosion and washout of the cut material has occurred along the slope causing gullies. Sandy soil was washed out to the bottom of slope and over the roadway during recent heavy storm. The primary cause of erosion of the cut material is concentrated water flow from heavy rain down the slopes at all eroded locations. Numerous interconnected gopher holes were noticed on the slopes. Subsequent flooding caused piping within the interconnected burrows with resulting significant enlargement of holes and slope erosion.

Recommendations

This erosion process will continue if no mitigative measure is taken. We highly recommend that an emergency project be initiated to reconstruct these sections of the cut slopes following Section 19 of the Standard Specifications. Prior to slope reconstruction and in order to avoid further erosion slopes need to be cleaned from the debris and loose soil should be removed. Office of Maintenance-D07 should evaluate gophers impact in respect to slope erosion and take an appropriate measures if required. Engaging the Landscape Design for replanting and vegetation should be done when slopes are reconstructed to its original state.

Failure to repair this cut slopes could jeopardize the safety of passing vehicles on the roadway during the rainy season and could result in partial closure of the roadway. If you have any questions and/or further assistance is required please contact Tatjana Halda at (213) 620-2347 or Shiva Karimi at (213) 620-2146.

Prepared by: Date: 3-26-10

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Damage Restoration Coordinator / T.E.
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GS Corporate: Mark_Willian@dot.ca.gov
Attachments

07-LA-SB405, Between Atlantic Blvd. On-Ramp and Orange Ave. Off-Ramp

07-LA-SB405, Between Atlantic Blvd. On-Ramp and Orange Ave. Off-Ramp

07-LA-SB405, Between Atlantic Blvd. On-Ramp and Orange Ave. Off-Ramp

State of California
Agency

Business, Transportation and Housing

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To: Mr. Hamid Saadatnejadi, Senior T.E.
D7 Office of Maintenance Engineering

Date: March 24, 2010

File: 07-LA-405-PM 5.7
EA 07 930322
SD5919405005.7

Attn: Mr. Xerxes Banduk, Maintenance Region Engineer

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

Subject: **SLOPE REVIEW at 07-LA-SB405 P.M. 5.7, Atlantic Slip Ramp**

A field review (ISA) was conducted on March 4, and 8, 2010, to evaluate the cut slope condition at the Atlantic Blvd Slip Ramp, PM5.7 along southbound 405 Route, in LA County.

The cut slope along the subject locations is approximately 28 ft high with an overall slope ratio 2H:1V. The slope material consists of silty sands, sandy silts, and clayey sand. The slope bears some irrigated ice plants. Based on field observations the slope appears to be grossly stable in general at the present time. There is a cleaned, concrete paved V ditch channel for collection of surface water at top of the slope.

Moderate to severe erosion and washout of the cut material has occurred along the slope. Sandy soil was washed out to the bottom of slope and over the roadway during recent heavy storm. The primary cause of erosion of the cut material is concentrated water flow from heavy rain down the slopes at all eroded locations. Numerous interconnected gopher holes were noticed on the slopes. Subsequent flooding caused piping within the interconnected burrows with resulting significant enlargement of holes and slope erosion.

Recommendations

This erosion process will continue if no mitigative measure is taken. We highly recommend that an emergency project be initiated to reconstruct these sections of the cut slopes following Section 19 of the Standard Specifications. Prior to slope reconstruction and in order to avoid further erosion slopes need to be cleaned from the debris and loose soil should be removed. Office of Maintenance-D07 should evaluate gophers impact in respect to slope erosion and take an appropriate measures if required. Engaging the Landscape Design for replanting and vegetation should be done when slopes are reconstructed to its original state.

Failure to repair this cut slopes could jeopardize the safety of passing vehicles on the roadway (slip ramp) during the rainy season and could result in partial closure of the roadway. If you have any questions and/or further assistance is required please contact Tatjana Halda at (213) 620-2347 or Shiva Karimi at (213) 620-2146.

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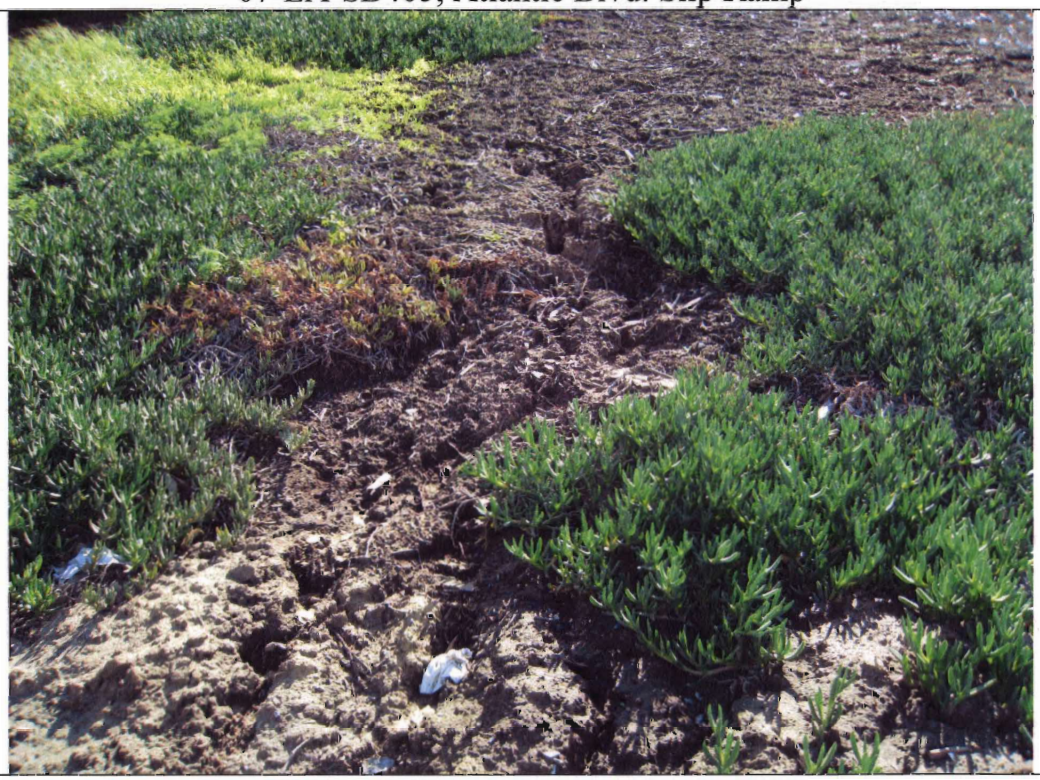
GS Corporate: Mark_Willian@dot.ca.gov
Attachments

07-LA-SB405, Atlantic Blvd. Slip Ramp

07-LA-SB405, Atlantic Blvd. Slip Ramp



State of California
Agency

Business, Transportation and Housing

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To: Mr. Hamid Saadatnejadi, Senior T.E.
D7 Office of Maintenance Engineering

Date: March 24, 2010

File: 07-LA-405-PM 5.7
EA 07 930322
SD5919405005.7

Attn: Mr. Xerxes Banduk, Maintenance Region Engineer

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

Subject: SLOPE REVIEW at 07-LA-SB405 P.M. 5.7, Atlantic Blvd. On-Ramp

A field review (ISA) was conducted on March 4, and 8, 2010, to evaluate the cut slope condition at the Atlantic Blvd On-Ramp (two locations), PM5.7 along southbound 405 Route, in LA County.

The cut slope at the beginning of on-ramp is approximately 28 ft high with an overall slope ratio 1.5H:1V, and about 17 ft high at the second location about 100 ft down the on-ramp, with an overall slope ratio of 1.5H:1V. The slope material consists of silty sands to sandy silts. The slope bears some irrigated ice plants. Based on field observations the slope appears to be grossly stable in general at the present time.

Moderate to severe erosion and washout of the cut material has occurred at the two locations along the slope causing the gullies. Portions of shoulder had failed at both eroded sites. A crack in the shoulder that extends for about 40 ft was observed near by the second washout. The primary cause of erosion of the cut material is concentrated water flow from heavy rain down the slopes at all eroded locations. Numerous interconnected gopher holes were noticed on the slopes. Subsequent flooding caused piping within the interconnected burrows with resulting significant enlargement of holes and slope erosion.

Recommendations

This erosion process will continue if no mitigative measure is taken. We highly recommend that an emergency project be initiated to reconstruct these sections of the cut slopes following Section 19 of the Standard Specifications. Prior to slope reconstruction and in order to avoid further erosion slopes need to be cleaned from the debris and loose soil should be removed. Portions of failed shoulder at both locations need to be removed and repaired. Office of Maintenance-D07 should evaluate gophers impact in respect to slope erosion and take an appropriate measures if required. Engaging the Landscape Design for replanting and vegetation should be done when slopes are reconstructed to its original state.

Failure to repair this cut slopes could jeopardize the safety of passing vehicles on the roadway (on-ramp) during the rainy season and could result in partial closure of the roadway. If you have any questions and/or further assistance is required please contact Tatjana Halda at (213) 620-2347 or Shiva Karimi at (213) 620-2146.

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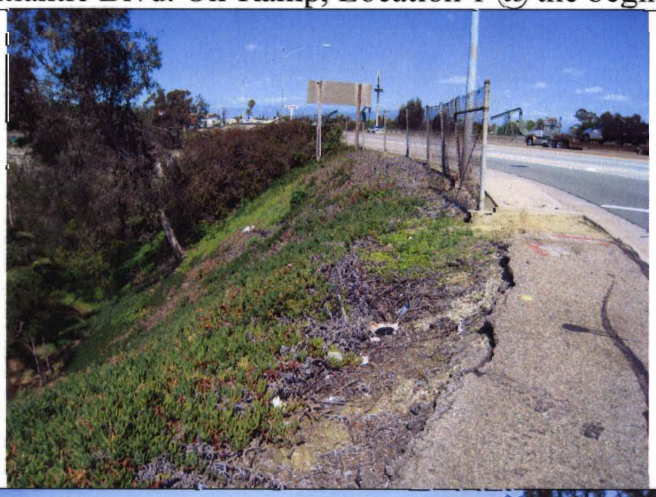
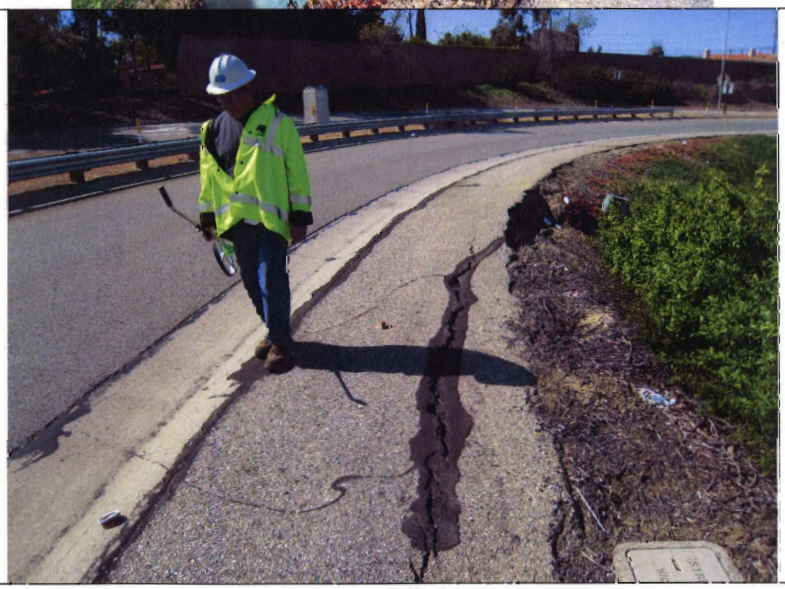
07-LA-SB405, Atlantic Blvd. On-Ramp, Location 1 @ the beginning of on-ramp



07-LA-SB405, Atlantic Blvd. On-Ramp, Location 2 about 100 ft down the on-ramp



PERMIT No. 701-6MC-2681 AND 07-LA-405-5.462
ADDITIONAL SOIL SAMPLING RESULTS
PROPOSED HOME DEPOT SITE
SOUTHBOUND I-405 FREEWAY OFF-RAMP AND ATLANTIC AVENUE
LONG BEACH, CALIFORNIA

NEW PERMIT # 704-6MC-0395.

Submitted to

State of California
Department of Transportation
18730 Wilmington Boulevard, Suite 103
Rancho Dominguez, California

Prepared for

Home Depot U.S.A., Inc.
Orange, California

Prepared by

ENVIRON International Corporation
Irvine, California

March 20, 2002
Revised: February 20, 2004
Revised: November 18, 2004
Revised: January 13, 2005
Revised: February 15, 2005

Prepared by:

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Houshang Dezfulian, Ph.D., P.E.
Principal

CONTENTS

TABLES

FIGURES

CONTENTS (Continued)

APPENDICES

P:\H\Home Depot\Closed\6889-v Signal Hill\6889-v Signal Hill Lead Road Side\Revised Jan 2005\additional lead sampling summary - final - REVISED.doc

1.0 INVESTIGATION SUMMARY

As requested by the State of California, Department of Transportation (DOT), ENVIRON International Corporation (ENVIRON) performed additional soil sampling along a portion of the southbound Interstate 405 Freeway off-ramp at Atlantic Avenue, in Long Beach, California (Figures 1 and 2). The work was conducted on behalf of Home Depot U.S.A., Inc. (The Home Depot) as part of its plan to widen the off-ramp, and in accordance with the DOT's requirements, as specified in the Encroachment Permit Rider and subsequent February 1, 2002 letter.

In its February 1, 2002 letter to The Home Depot, the DOT requested additional soil sampling to characterize the degree of Aerially Deposited Lead (ADL) contamination in the soil in all areas of the off-ramp to be disturbed during the lane-widening project. ENVIRON prepared a memo outlining a scope of work, including a map depicting sample locations, to respond to the DOT's request; the scope of work was approved by the DOT on February 26, 2002. The approved scope of work consisted of drilling and sampling eight additional soil borings along the south side of the off-ramp using the direct push drilling method. At each soil boring location, samples were collected at the surface (0 to 0.5 feet), and from approximately 1 to 1.5 feet, 2 to 2.5 feet, 3 to 3.5 feet, 4 to 4.5 feet, and 5 to 5.5 feet.

All 48 soil samples collected were analyzed for total lead in accordance with U.S. Environmental Protection Agency (EPA) Method 6010, and pH. Lead was not detected in any of the samples at concentrations above the Total Threshold Limit Concentration (TTLC) for lead. However, lead was detected in five of the soil samples at concentrations ranging from 73 milligrams per kilogram (mg/kg) to 290 mg/kg, which exceeds 10 times the Soluble Threshold Limit Concentration (10 x STLC) for lead; four of the five samples were collected from the surface (0 to 0.5 feet).

In accordance with the Lead Testing Guidance Table provided in the DOT's February 1, 2002 letter, subsequent analysis using the citrate Waste Extraction Test (WET) was performed on the five samples in which lead concentrations exceeded 10 x STLC; results of the WET indicated that two of the samples exceeded the 5.0 mg/l STLC for lead, at STLC concentrations of 6.9 mg/l and 9.1 mg/l. Both samples were collected at the surface (0-0.5 feet).

In addition, in accordance with the approved scope of work, 10 of the soil samples exhibiting the highest concentrations of lead were analyzed for the full suite of metals California Code of Regulations [CCR] Title 22 metals; the sample with the highest lead concentration was also

analyzed for volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) in accordance with EPA Methods 8260B and 8270, respectively. Metals were not detected in any of the 10 soil samples at concentrations exceeding the respective TTLC or 10 x STLC concentrations. In addition, VOCs and SVOCs were not detected above laboratory reporting limits in the samples analyzed for VOCs and SVOCs.

Following receipt of the analytical results, statistical analysis of the samples was performed in accordance with EPA SW-846 and the additional DOT requirements as specified by the DOT in its February 1, 2002 letter.

Based on the results of the soil sampling described herein, and the results of the statistical analysis performed on the soil sample results, it is ENVIRON's conclusion that the 95% upper confidence limit (UCL) does not exceed the TTLC or STLC for any of the metals analyzed for at the site. Therefore, additional sampling of soil, or special handling of soil, other than standard construction practices for dust control to be implemented during the lane widening project, is not warranted

2.0 INTRODUCTION

ENVIRON International Corporation (ENVIRON) was retained by The Home Depot to conduct additional soil sampling along a portion of the southbound Interstate 405 Freeway off-ramp at Atlantic Avenue, in Long Beach, California (Figures 1 and 2). The work was conducted as part of The Home Depot's plan to widen the off-ramp, and was performed in accordance with Department of Transportation's (DOT's) requirements as specified in the Encroachment Permit Rider, and its subsequent request for additional sampling dated February 1, 2002. The additional soil sampling was performed on March 1, 2002.

On October 31, 2001, at the direction and approval of DOT, two soil borings were drilled and sampled in the same approximate area that the current sampling was performed (see Figure 1, sample locations SB1-1 and SB2-S), and six soil samples were collected and analyzed for the California Code of Regulation [CCR] Title 22 metals. The detected metals concentrations were compared to the respective Total Threshold Limit Concentrations (TTLCs) and Soluble Threshold Limit Concentrations (STLCs). Results of this comparison indicated that none of the metals exceeded the respective TTLCs; however, lead was detected in two samples (SB1-1 and SB2-S) at concentrations that exceeded 10 times the STLC. As a result, the Waste Extraction Test (WET) was performed on both samples, and the STLC for lead (5.0 milligrams per liter (mg/l)) was exceeded in one of the samples, SB2-S, in which it was detected at a concentration of 11 mg/l. This sample was subsequently analyzed using the Toxic Characteristic Leaching Procedure (TCLP) for lead; the sample result showed that lead was not detected. Results of this earlier soil sampling were submitted to the DOT on November 20, 2001 and have been included in this report for reference purposes (see Table 3). In addition, the results of the earlier work have been incorporated into the statistical evaluation.

3.0 OBJECTIVE AND SCOPE OF WORK

3.1 Objective

The objective of the additional soil sampling as described herein was to comply with the request of the DOT in its February 1, 2002 letter, in which it was requested that the potential presence of Aerially Deposited Lead (ADL) in the soil in the area of the off-ramp to be disturbed be more fully assessed.

3.2 Scope of Work

The scope of work designed to meet the objective described above included the following:

- Preparation of a site-specific health and safety plan.
- Completion of a geophysical survey to evaluate the presence of buried utilities and lines.
- Collection and laboratory analysis of 48 soil samples from eight shallow soil borings.
- Evaluation of the sample results by performing statistical analysis.
- Preparation of this report.

4.0 SCOPE OF WORK

4.1 Field Mobilization

Prior to the start of the subsurface investigation, ENVIRON subcontracted with Spectrum Geophysics (Spectrum) of San Fernando, California, to evaluate the potential presence of buried utilities in the areas of proposed sampling. The purpose of this evaluation was to minimize potential damage to buried utilities and pipelines, and injuries to personnel that could ensue from encountering such lines during subsurface sampling (i.e., gas leaks, electric shock). In addition, a site-specific health and safety plan was prepared prior to the initiation of fieldwork. The health and safety plan was designed to minimize potential exposure to ENVIRON field personnel.

ENVIRON notified the DOT of its sampling schedule; personnel from the DOT were present during a portion of the drilling and sampling activities.

4.2 Soil Sampling

ENVIRON retained Environmental Support Technologies (EST) to collect soil samples from eight soil borings using the direct push drilling method. Soil boring locations are provided on Figure 1. Soil samples were collected at depths of approximately 0 to 0.5 feet, 1 to 1.5 feet, 2 to 2.5 feet, 3 to 3.5 feet, 4 to 4.5 feet, and 5 to 5.5 feet in each soil boring using a slide hammer sampler lined with an acetate sleeve. Once each sample was collected, the acetate sleeves were removed from the sampler, sealed with Teflon tape and plastic end caps, labeled, stored on ice in a closed container, and delivered to the laboratory on the same day that they were collected, under chain-of-custody procedures.

Soil samples were submitted to Del Mar Analytical of Irvine, California, a California State-certified laboratory, for analysis. All 48 soil samples were analyzed for total lead in accordance with the Environmental Protection Agency (EPA) Method 6010, and pH. Subsequent analysis using the WET was performed on the soil samples that exceeded 10 x STLC for lead. In addition 10 of the soil samples exhibiting the highest concentrations of total lead were analyzed for the full suite of metals (CCR Title 22 metals); one of those samples was also analyzed for volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) in accordance with EPA Methods 8260B and 8270, respectively. Analytical results are presented and discussed in the following section.

5.0 DATA EVALUATION AND DISCUSSION

5.1 Soil Sample Evaluation

Total lead was detected in all 48 soil samples at concentrations above the laboratory reporting limits (see Table 1). However, only five samples exceeded 10 x the STLC, SB4-0-0.5 (290 milligrams per kilograms (mg/kg)), SB5-0-0.5 (170 mg/kg), SB7-0-0.5 (73 mg/kg), SB8-0-0.5 (73 mg/kg), and SB10-0-0.5 (90 mg/kg). Subsequent analysis of the five samples using the WET procedure was performed; the STLC for lead (5.0 mg/l) was exceeded in two of the samples, samples SB4-0-0.5 (9.1 mg/l) and SB5-0-0.5 (6.9 mg/l) (see Table 1).

Arsenic, barium, chromium, cobalt, copper, lead, mercury, nickel, vanadium, and zinc were detected in most of the 10 soil samples analyzed for CCR Title 22 metals; none of the metals detected exceeded the respective TTLCs or 10 x STLCs (see Table 2).

Measured pH values ranged from 6.70 to 9.53; the lower end of the range occurs more commonly, while the higher end of the range is suggestive of very alkaline soils.

VOCs and SVOCs were not detected in the soil sample (sample SB4-0-0.5) analyzed using EPA Methods 8260b and 8270 at concentrations above the laboratory reporting limits.

Laboratory reports for all analysis performed are provided in Appendix A.

In addition, as indicated previously, for reference purposes, soil sample results for the previous soil sampling are summarized in Table 3, and provided in full in Appendix B.

5.2 Statistical Evaluation

ENVIRON performed statistical analysis of the most recent and historical sample results, as described in SW-846 and the DOT's February 1, 2002 letter. The statistical comparison of the data to the regulatory thresholds is based on the assumption that the data are represented by a normal distribution. When a data set is not normally distributed, SW 846 suggests a data transformation to achieve normality. According to this guidance, if the simple test of comparing the average to the variance fails (the data are not normally distributed) a square root or arcsin transformation is acceptable. The test for normality fails (assume the data set is not normal) when the variance is greater than twice the average.

Table 4 provides a summary of the statistical analysis performed on the metals results. The descriptive statistics are quantity of samples reported below detection limit, quantity of samples reported as detected concentrations, total quantity of samples, minimum, maximum, median, average, and variance. Additionally, the table includes the test statistic (variance over the average), the results of the normality test, the transformation method if applicable, the 95% upper confidence limit (UCL) on the mean (one-tailed), the STLC, the TTLC, and the results of comparing the 95% UCL to the appropriate threshold.

Ten compounds were detected frequently enough to calculate 95% UCLs. Of the ten, eight failed the test for normality and required transformation. Arsenic, chromium, nickel, and vanadium data were transformed using the square root method. Barium, copper, lead, and zinc data were transformed using the arcsin method. Cobalt and mercury did not require a transformation. None of the 95% UCLs for the metals exceeds the appropriate TTLC.

Seven of the samples exhibited concentrations of total lead in excess of 10 x STLC, and were subsequently analyzed by the laboratory for soluble lead. The soluble lead results were compared to the total results using linear regression (Figure 3). A best-fit line was calculated and the resulting slope (0.0437 kg/l) and y-intercept (negative 1.5136 mg/l) were used to establish a solubility factor equation. The 95% UCL for soluble lead was calculated by multiplying the 95% UCL for total lead (50.5 mg/kg) by the slope and adding the y-intercept value. The resulting value, 0.69 mg/l, is less than the STLC for lead (5 mg/l).

Histograms of the data are provided in Appendix C.

6.0 CONCLUSIONS

As requested by the DOT, ENVIRON performed additional soil sampling along a portion of the southbound Interstate 405 Freeway off-ramp at Atlantic Avenue, in Long Beach, California. The DOT requested additional soil sampling to characterize the degree of ADL contamination in the soil in all areas of the off-ramp to be disturbed during the lane-widening project. Eight additional soil borings were drilled and sampled on March 1, 2002.

Forty-eight soil samples were analyzed for total lead and pH. Lead was not detected in any of the samples at concentrations above the TTLC for lead. However, lead was detected in five soil samples at concentrations exceeding 10 x STLC; the WET was performed on the five samples and the results indicated that two of the samples exceeded the STLC for lead. None of the calculated UCLs for lead exceeded either the STLC (5 mg/l) or the TTLC (1,000 mg/kg). Measured pH values ranged from 6.70 to 9.53. In addition, 10 of the soil samples were analyzed for CCR Title 22 metals, and one sample was analyzed for VOCs and SVOCs. Metals were not detected in any of the 10 soil samples at concentrations exceeding the respective TTLC or 10 x STLC concentrations and VOCs and SVOCs were not detected.

Following receipt of the analytical results, statistical analysis of the samples was performed in accordance with EPA SW-846 and the additional DOT requirements as specified by the DOT in its February 1, 2002 letter.

Based on the results of the soil sampling described herein, and the results of the statistical analysis performed on the soil sample results, it is ENVIRON's conclusion that the 95% UCL does not exceed the TTLC or STLC for any of the metals analyzed for at the site. Therefore, additional sampling of soil, or special handling of soil, other than standard construction practices for dust control to be implemented during the lane-widening project, is not warranted.

TABLES

TABLE 1
Soil Sample Analytical Results
Total Lead, WET, and pH
Southbound I-405 Freeway Off-ramp and Atlantic Avenue
Long Beach, California

Sample ID	pH	Total Lead (mg/kg)	Soluble Lead (mg/l)
SB3-0-0.5	8.87	36	
SB3-1-1.5	9.05	4	
SB3-2-2.5	8.26	35	
SB3-3-3.5	9.53	4.1	
SB3-4-4.5	8.89	45	
SB3-5-5.5	9.08	2.8	
SB4-0-0.5	7.79	(290)[a]	(9.1)[b]
SB4-1-1.5	8.9	4.1	
SB4-2-2.5	7.95	25	
SB4-3-3.5	8.81	4.1	
SB4-4-4.5	8.63	5.9	
SB4-5-5.5	9.18	2.2	
SB5-0-0.5	7.9	(170)[a]	(6.9)[b]
SB5-1-1.5	8.04	3.4	
SB5-2-2.5	8.02	3.6	
SB5-3-3.5	8.19	ND	
SB5-4-4.5	8.01	2.9	
SB5-5-5.5	7.96	ND	
SB6-0-0.5	7.87	32	
SB6-1-1.5	7.29	29	
SB6-2-2.5	7.59	4.4	
SB6-3-3.5	8.02	5.9	
SB6-4-4.5	7.32	4.3	
SB6-5-5.5	7.75	4.8	
Regulatory Threshold		TTLC = 1000	STLC = 5

Sample ID	pH	Total Lead (mg/kg)	Soluble Lead (mg/l)
SB7-0-0.5	7.49	(73)[a]	0.38
SB7-1-1.5	8.07	24	
SB7-2-2.5	8.36	6.6	
SB7-3-3.5	8.29	4.9	
SB7-4-4.5	8.5	4.4	
SB7-5-5.5	8.3	2.7	
SB8-0-0.5	8.01	(73)[a]	4.1
SB8-1-1.5	8.25	7.5	
SB8-2-2.5	8.22	5.6	
SB8-3-3.5	8.26	4.7	
SB8-4-4.5	6.7	9.5	
SB8-5-5.5	8.34	4.9	
SB9-0-0.5	7.31	18	
SB9-1-1.5	7.82	8.9	
SB9-2-2.5	7.77	11	
SB9-3-3.5	7.79	6.3	
SB9-4-4.5	8.19	21	
SB9-5-5.5	7.63	12	
SB10-0-0.5	8.23	39	
SB10-1-1.5	8.49	33	
SB10-2-2.5	8.95	2.7	
SB10-3-3.5	8.74	3.5	
SB10-4-4.5	8.47	3.5	
SB10-5-5.5	8.66	(90)[a]	0.47
Regulatory Threshold		TTLC = 1000	STLC = 5

Notes:
mg/kg: milligrams per kilogram
mg/l: milligrams per liter
STLC: Soluble Threshold Limit Concentration
TTLC: Total Threshold Limit Concentration
WET: Waste Extraction Test
a: result exceeds 10 x STLC
b: result exceeds STLC

TABLE 2
Soil Sample Analytical Results
Title 22 Metals
Southbound I-405 Freeway Off-ramp and Atlantic Avenue
Long Beach, California

Analyte (mg/kg)	Sample ID										10X STLC (mg/l)	TTLC (mg/kg)	STLC (mg/l)
	SB3-0-0.5	SB3-2-2.5	SB3-4-4.5	SB4-0-0.5	SB5-0-0.5	SB7-0-0.5	SB8-0-0.5	SB10-0-0.5	SB10-1-1.5	SB10-5-5.5			
Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	150	500	15
Arsenic	2.3	3.5	3.2	8	2.7	2.6	2.6	8.6	4.6	3.7	50	500	5
Barium	74	82	77	160	82	120	110	170	130	110	1000	10,000	100
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.5	75	0.75
Cadmium	ND	ND	ND	1.4	ND	ND	ND	ND	0.62	ND	10	100	1
Chromium	11	20	21	16	12	13	14	21	19	14	50	2,500	5
Cobalt	5	7.4	5.7	6.9	4.7	5.7	6	11	6.7	6.8	800	8,000	80
Copper	8	13	15	34	16	12	12	23	27	16	250	2,500	25
Lead	36	35	45	290	170	73	73	39	33	90	50	1,000	5
Mercury	0.028	ND	0.023	0.061	0.032	0.058	0.071	0.029	0.049	0.036	2	20	0.2
Molybdenum	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3500	3,500	350
Nickel	7.6	12	14	15	9.6	10	10	18	16	10	200	2,000	20
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10	100	1
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50	500	5
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	70	700	7
Vanadium	21	32	27	24	19	22	24	40	25	23	240	2,400	24
Zinc	55	78	130	190	150	110	110	87	92	71	2500	5,000	250

Notes:
ND: Not-detected
mg/kg: milligrams per kilogram
mg/l: milligrams per liter
10 x STLC: 10 times Soluble Threshold Limit Concentration
TTLC: Total Threshold Limit Concentration
STLC: Soluble Threshold Limit Concentration
SB3-0-0.5: Soil boring number with associated depth

TABLE 3
Previous Soil Sample Analytical Results
Title 22 Metals and WET
Southbound I-405 Freeway Off-ramp and Atlantic Avenue
Long Beach, California

Analyte (mg/kg)	Sample ID						10X STLC (mg/kg)	TTLC (mg/l)	STLC (mg/l)
	SB-1-S	SB-1-1	SB-1-2	SB-2-S	SB-2-1	SB-2-2			
Antimony	ND	ND	ND	ND	ND	ND	150	500	15
Arsenic	2.6	2.3	2.8	3	3.1	2.4	50	500	5
Barium	86	74	66	90	98	81	1000	10,000	100
Beryllium	ND	ND	ND	ND	ND	ND	7.5	75	0.75
Cadmium	ND	ND	ND	0.54	ND	ND	10	100	1
Chromium	11	13	18	18	15	13	50	2,500	5
Cobalt	4.7	4.8	7.8	5.4	6.7	5.4	800	8,000	80
Copper	12	9.8	9.9	14	12	8.4	250	2,500	25
Lead	38	**80**	7.3	**230**	33	32	50	1,000	5
Mercury	0.071	0.042	0.058	0.11	0.042	0.048	2	20	0.2
Molybdenum	ND	ND	ND	ND	ND	ND	3500	3,500	350
Nickel	8.7	9.8	15	14	12	9.4	200	2,000	20
Selenium	ND	ND	ND	ND	ND	ND	10	100	1
Silver	ND	ND	ND	ND	ND	ND	50	500	5
Thallium	ND	ND	ND	ND	ND	ND	70	700	7
Vanadium	19	20	27	24	29	23	240	2,400	24
Zinc	91	80	38	170	50	45	2500	5,000	250
WET (STLC Metals), **Lead**	NA	1.4	NA	**11**	NA	NA			

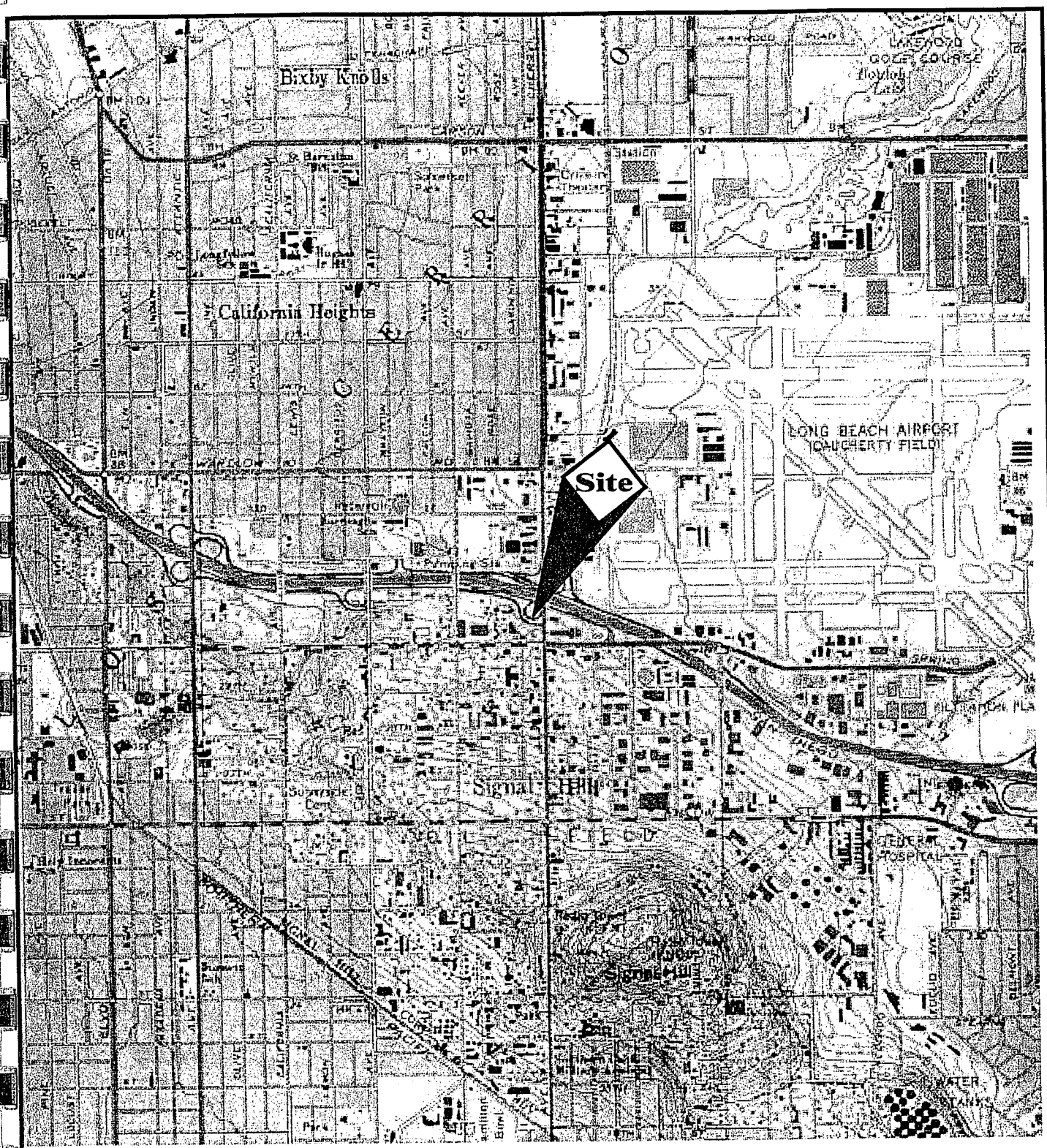
Notes:
ND: Not-detected
NA: Not Analyzed
mg/kg: milligrams per kilogram
mg/l: milligrams per liter
10 x STLC: 10 times Soluble Threshold Limit Concentration
TTLC: Total Threshold Limit Concentration
STLC: Soluble Threshold Limit Concentration
WET: Waste Extraction Test
SB-1-1: Soil boring number with associated depth
SB-1-S: Soil boring number, sample collected at the surface (s)

TABLE 4
Statistical Summary of Soil Sample Analytical Results
Title 22 Metals
Southbound I-405 Freeway Off-ramp and Atlantic Avenue
Long Beach, California

	Quantity				Statistics									Regulatory Thresholds		Comparison
Compound	ND	Detected	Total	Units	Minimum	Maximum	Median	Average	Variance	Variance/ Average	Normality Test	Transformation	95% UCL	STLC	TTLC	95% UCL to Regulatory Threshold
Antimony-6010B	16	0	16	mg/kg	na	na	na	na	na	na	na	na	na		500	na
Arsenic-6010B	0	16	16	mg/kg	2.3	8.6	2.9	3.63	3.69	1.02	Not Normal	square root	4.19		500	Does Not Exceed
Barium-6010B	0	16	16	mg/kg	66	170	88.0	100.6	956	9.50	Not Normal	arcsin	124		10,000	Does Not Exceed
Beryllium-6010B	16	0	16	mg/kg	na	na	na	na	na	na	na	na	na		75	na
Cadmium-6010B	13	3	16	mg/kg	0.25	1.4	na	na	na	na	na	na	na		100	na
Chromium-6010B	0	16	16	mg/kg	11	21	14.5	15.6	12.1	0.779	Not Normal	square root	16.9		2,500	Does Not Exceed
Cobalt-6010B	0	16	16	mg/kg	4.7	11	5.9	6.29	2.53	0.402	Normal	none	6.99		8,000	Does Not Exceed
Copper-6010B	0	16	16	mg/kg	8.0	34	12.5	15.13	50.5	3.34	Not Normal	arcsin	20.5		2,500	Does Not Exceed
Lead-6010B	2	52	54	mg/kg	1.0	290	7.0	29.82	2993	100	Not Normal	arcsin	50.5		1,000	Does Not Exceed
Lead-6010B,STLC	0	7	7	mg/L	0.38	11	4.1	4.80	18.5	na	na	na	0.69*	5		Does Not Exceed
Mercury-7470/7471	0	16	16	mg/kg	0.010	0.11	0.045	0.048	0.00	0.012	Normal	none	0.059		20	Does Not Exceed
Molybdenum-6010B	16	0	16	mg/kg	na	na	na	na	na	na	na	na	na		3,500	na
Nickel-6010B	0	16	16	mg/kg	7.6	18	11.0	11.9	9.17	0.768	Not Normal	square root	13.1		2,000	Does Not Exceed
Selenium-6010B	16	0	16	mg/kg	na	na	na	na	na	na	na	na	na		100	na
Silver-6010B	16	0	16	mg/kg	na	na	na	na	na	na	na	na	na		500	na
Thallium-6010B	16	0	16	mg/kg	na	na	na	na	na	na	na	na	na		700	na
Vanadium-6010B	0	16	16	mg/kg	19	40	24.0	24.9	28.7	1.15	Not Normal	square root	27.0		2,400	Does Not Exceed
Zinc-6010B	0	16	16	mg/kg	38	190	89.0	96.7	1990	20.6	Not Normal	arcsin	128		5,000	Does Not Exceed

Notes:
Calculations executed with 1/2 detection limit substitution for non-detects.
ND = Not detected
na = not applicable
mg/kg = milligrams per kilogram
mg/l = milligrams per Liter, STLC data only
STLC = Soluble Threshold Limit Concentration
TTLC = Total Threshold Limit Concentration
* 95% UCL calculated from the 95%UCL of total lead and the regression of soluble lead and total lead.

FIGURES



0 1/2 1 MILE

2000 0 2000 4000 FEET

SOURCE:
U.S.G.S. 7.5 minute series (topographic)
Long Beach Quadrangle, CA, current as of 1981

CONTOUR INTERVAL 40 FEET
DOTTED LINES REPRESENT 10-FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929
SCALE 1:24000

ENVIRON

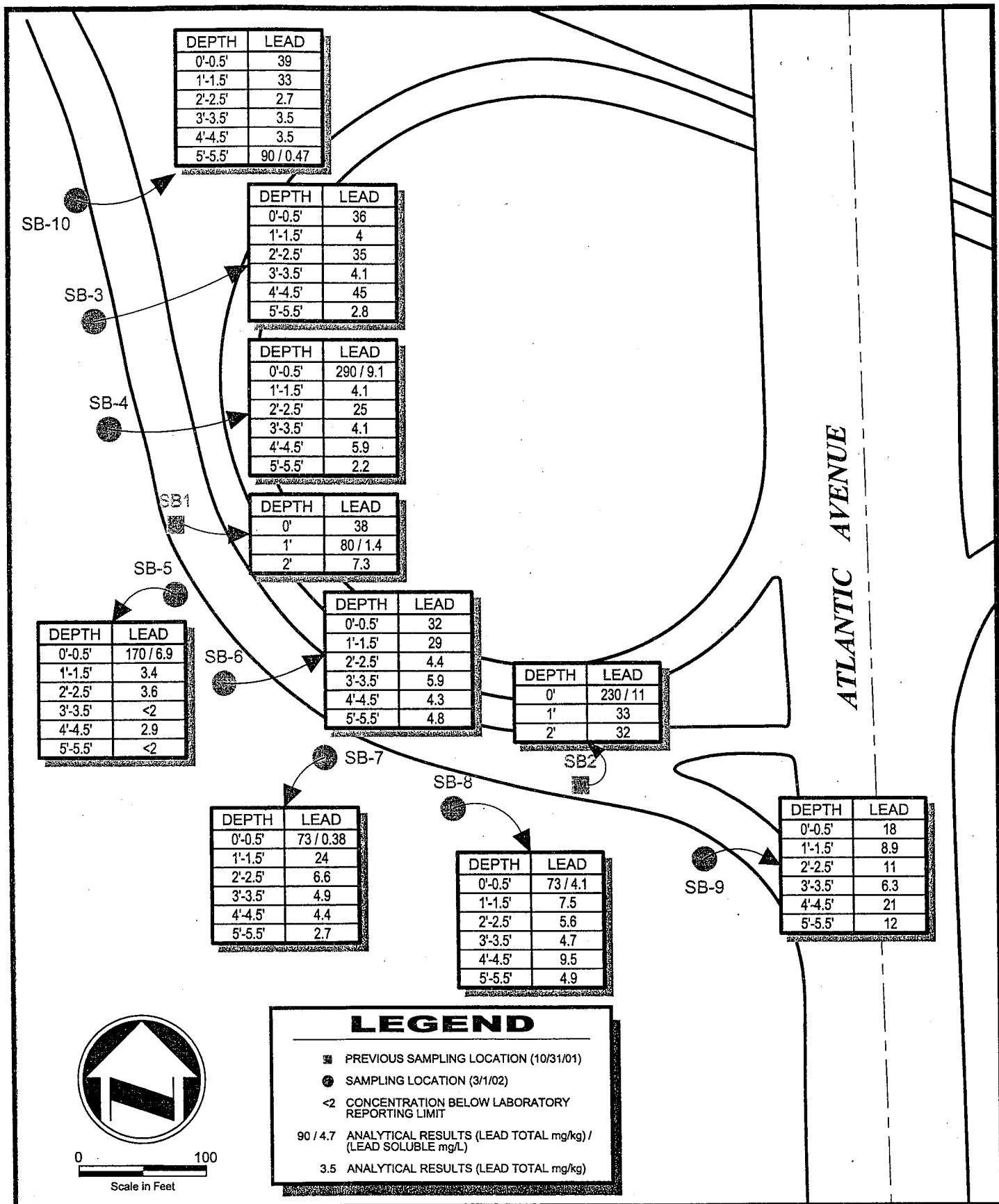
Site Vicinity Map

Southbound I-405 Freeway Off-Ramp and Atlantic Avenue
Long Beach, California

Figure
1

Drafter: JJC Date: 3/18/02 Contract Number: 04-6889V Approved: Revised:

FILE: 04688V6889V1A



DEPTH	LEAD
0'-0.5'	39
1'-1.5'	33
2'-2.5'	2.7
3'-3.5'	3.5
4'-4.5'	3.5
5'-5.5'	90 / 0.47

DEPTH	LEAD
0'-0.5'	36
1'-1.5'	4
2'-2.5'	35
3'-3.5'	4.1
4'-4.5'	45
5'-5.5'	2.8

DEPTH	LEAD
0'-0.5'	290 / 9.1
1'-1.5'	4.1
2'-2.5'	25
3'-3.5'	4.1
4'-4.5'	5.9
5'-5.5'	2.2

DEPTH	LEAD
0'	38
1'	80 / 1.4
2'	7.3

DEPTH	LEAD
0'-0.5'	170 / 6.9
1'-1.5'	3.4
2'-2.5'	3.6
3'-3.5'	<2
4'-4.5'	2.9
5'-5.5'	<2

DEPTH	LEAD
0'-0.5'	32
1'-1.5'	29
2'-2.5'	4.4
3'-3.5'	5.9
4'-4.5'	4.3
5'-5.5'	4.8

DEPTH	LEAD
0'	230 / 11
1'	33
2'	32

DEPTH	LEAD
0'-0.5'	73 / 0.38
1'-1.5'	24
2'-2.5'	6.6
3'-3.5'	4.9
4'-4.5'	4.4
5'-5.5'	2.7

DEPTH	LEAD
0'-0.5'	73 / 4.1
1'-1.5'	7.5
2'-2.5'	5.6
3'-3.5'	4.7
4'-4.5'	9.5
5'-5.5'	4.9

DEPTH	LEAD
0'-0.5'	18
1'-1.5'	8.9
2'-2.5'	11
3'-3.5'	6.3
4'-4.5'	21
5'-5.5'	12

ENVIRON

Soil Boring Locations with Lead Results

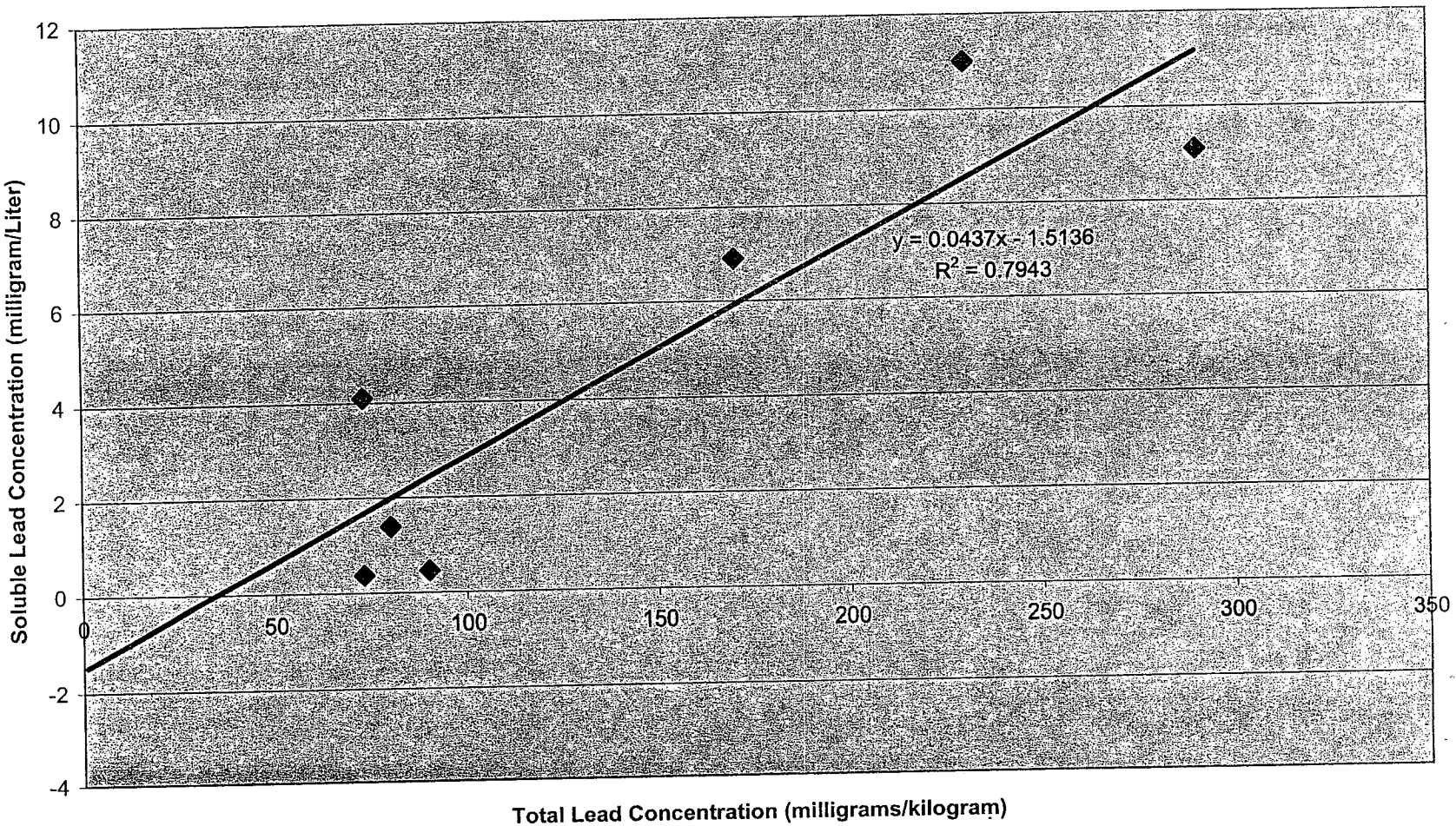
Southbound I-405 Fwy Off-Ramp and Atlantic Ave., Long Beach, California

Figure 2

Drafter: JJC Date: 3/19/02 Contract Number: 04-6889V Approved: Revised:

FILE: P:\H\Home Depot\Closed\6889-v Signal Hill\6889VF2A

Figure 3
Soluble Lead vs Total Lead in Soil



APPENDIX A

Laboratory Analytical Results and Chain-of-Custody Forms

Del Mar Analytical

2852 Alton Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
7277 Hayvenhurst, Suite 8-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

LABORATORY REPORT

Prepared For: Environ-Irvine
2010 Main Street, 9th Floor
Irvine, CA 92614

Attention: Rebekah Wale
Project: Home Depot
04-6889V

Sampled: 10/31/01
Received: 10/31/01
Reported: 11/01/01

This laboratory report is confidential and is intended for the sole use of Del Mar Analytical and its client. This entire report was reviewed and approved for release.

CA ELAP Certificate #1197
AZ DHS License #AZ0428

Del Mar Analytical, Irvine
Patty Mata
Project Manager

Del Mar Analytical

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Environ-Irvine
2010 Main Street, 9th Floor
Irvine, CA 92614
Attention: Rebekah Wale

Project ID: Home Depot
04-6889V
Report Number: IKJ1231

Sampled: 10/31/01
Received: 10/31/01

METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			mg/kg	mg/kg				
Sample ID: IKJ1231-01 (SB-1-S - Soil)								
Antimony	EPA 6010B	I1J3156	10	ND	1	10/31/01	10/31/01	M2
Arsenic	EPA 6010B	I1J3156	2.0	**2.6**	1	10/31/01	10/31/01	
Barium	EPA 6010B	I1J3156	1.0	**86**	1	10/31/01	10/31/01	M2
Beryllium	EPA 6010B	I1J3156	0.50	ND	1	10/31/01	10/31/01	
Cadmium	EPA 6010B	I1J3156	0.50	ND	1	10/31/01	10/31/01	
Chromium	EPA 6010B	I1J3156	1.0	**11**	1	10/31/01	10/31/01	M1
Cobalt	EPA 6010B	I1J3156	1.0	**4.7**	1	10/31/01	10/31/01	
Copper	EPA 6010B	I1J3156	1.0	**12**	1	10/31/01	10/31/01	
Lead	EPA 6010B	I1J3156	2.0	**38**	1	10/31/01	10/31/01	M2
Mercury	EPA 7471A	I1K0131	0.020	**0.071**	1	11/1/01	11/1/01	
Molybdenum	EPA 6010B	I1J3156	2.0	ND	1	10/31/01	10/31/01	
Nickel	EPA 6010B	I1J3156	1.0	**8.7**	1	10/31/01	10/31/01	M1
Selenium	EPA 6010B	I1J3156	2.0	ND	1	10/31/01	10/31/01	
Silver	EPA 6010B	I1J3156	1.0	ND	1	10/31/01	10/31/01	
Thallium	EPA 6010B	I1J3156	10	ND	1	10/31/01	10/31/01	
Vanadium	EPA 6010B	I1J3156	1.0	**19**	1	10/31/01	10/31/01	
Zinc	EPA 6010B	I1J3156	5.0	**91**	1	10/31/01	10/31/01	M2
Sample ID: IKJ1231-02 (SB-1-1 - Soil)								
Antimony	EPA 6010B	I1J3156	10	ND	1	10/31/01	10/31/01	
Arsenic	EPA 6010B	I1J3156	2.0	**2.3**	1	10/31/01	10/31/01	
Barium	EPA 6010B	I1J3156	1.0	**74**	1	10/31/01	10/31/01	
Beryllium	EPA 6010B	I1J3156	0.50	ND	1	10/31/01	10/31/01	
Cadmium	EPA 6010B	I1J3156	0.50	ND	1	10/31/01	10/31/01	
Chromium	EPA 6010B	I1J3156	1.0	**13**	1	10/31/01	10/31/01	
Cobalt	EPA 6010B	I1J3156	1.0	**4.8**	1	10/31/01	10/31/01	
Copper	EPA 6010B	I1J3156	1.0	**9.8**	1	10/31/01	10/31/01	
Lead	EPA 6010B	I1J3156	2.0	**80**	1	10/31/01	10/31/01	
Mercury	EPA 7471A	I1K0131	0.020	**0.042**	1	11/1/01	11/1/01	
Molybdenum	EPA 6010B	I1J3156	2.0	ND	1	10/31/01	10/31/01	
Nickel	EPA 6010B	I1J3156	1.0	**9.8**	1	10/31/01	10/31/01	
Selenium	EPA 6010B	I1J3156	2.0	ND	1	10/31/01	10/31/01	
Silver	EPA 6010B	I1J3156	1.0	ND	1	10/31/01	10/31/01	
Thallium	EPA 6010B	I1J3156	10	ND	1	10/31/01	10/31/01	
Vanadium	EPA 6010B	I1J3156	1.0	**20**	1	10/31/01	10/31/01	
Zinc	EPA 6010B	I1J3156	5.0	**80**	1	10/31/01	10/31/01	

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Environ-Irvine
2010 Main Street, 9th Floor
Irvine, CA 92614
Attention: Rebekah Wale

Project ID: Home Depot
04-6889V
Report Number: IKJ1231

Sampled: 10/31/01
Received: 10/31/01

METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			mg/kg	mg/kg				
Sample ID: IKJ1231-03 (SB-1-2 - Soil)								
Antimony	EPA 6010B	I1J3156	10	ND	1	10/31/01	10/31/01	
Arsenic	EPA 6010B	I1J3156	2.0	**2.8**	1	10/31/01	10/31/01	
Barium	EPA 6010B	I1J3156	1.0	**66**	1	10/31/01	10/31/01	
Beryllium	EPA 6010B	I1J3156	0.50	ND	1	10/31/01	10/31/01	
Cadmium	EPA 6010B	I1J3156	0.50	ND	1	10/31/01	10/31/01	
Chromium	EPA 6010B	I1J3156	1.0	**18**	1	10/31/01	10/31/01	
Cobalt	EPA 6010B	I1J3156	1.0	**7.8**	1	10/31/01	10/31/01	
Copper	EPA 6010B	I1J3156	1.0	**9.9**	1	10/31/01	10/31/01	
Lead	EPA 6010B	I1J3156	2.0	**7.3**	1	10/31/01	10/31/01	
Mercury	EPA 7471A	I1K0131	0.020	**0.058**	1	11/1/01	11/1/01	
Molybdenum	EPA 6010B	I1J3156	2.0	ND	1	10/31/01	10/31/01	
Nickel	EPA 6010B	I1J3156	1.0	**15**	1	10/31/01	10/31/01	
Selenium	EPA 6010B	I1J3156	2.0	ND	1	10/31/01	10/31/01	
Silver	EPA 6010B	I1J3156	1.0	ND	1	10/31/01	10/31/01	
Thallium	EPA 6010B	I1J3156	10	ND	1	10/31/01	10/31/01	
Vanadium	EPA 6010B	I1J3156	1.0	**27**	1	10/31/01	10/31/01	
Zinc	EPA 6010B	I1J3156	5.0	**38**	1	10/31/01	10/31/01	
Sample ID: IKJ1231-04 (SB-2-S - Soil)								
Antimony	EPA 6010B	I1J3156	10	ND	1	10/31/01	10/31/01	
Arsenic	EPA 6010B	I1J3156	2.0	**3.0**	1	10/31/01	10/31/01	
Barium	EPA 6010B	I1J3156	1.0	**90**	1	10/31/01	10/31/01	
Beryllium	EPA 6010B	I1J3156	0.50	ND	1	10/31/01	10/31/01	
Cadmium	EPA 6010B	I1J3156	0.50	**0.54**	1	10/31/01	10/31/01	
Chromium	EPA 6010B	I1J3156	1.0	**18**	1	10/31/01	10/31/01	
Cobalt	EPA 6010B	I1J3156	1.0	**5.4**	1	10/31/01	10/31/01	
Copper	EPA 6010B	I1J3156	1.0	**14**	1	10/31/01	10/31/01	
Lead	EPA 6010B	I1J3156	2.0	**230**	1	10/31/01	10/31/01	
Mercury	EPA 7471A	I1K0131	0.020	**0.11**	1	11/1/01	11/1/01	
Molybdenum	EPA 6010B	I1J3156	2.0	ND	1	10/31/01	10/31/01	
Nickel	EPA 6010B	I1J3156	1.0	**14**	1	10/31/01	10/31/01	
Selenium	EPA 6010B	I1J3156	2.0	ND	1	10/31/01	10/31/01	
Silver	EPA 6010B	I1J3156	1.0	ND	1	10/31/01	10/31/01	
Thallium	EPA 6010B	I1J3156	10	ND	1	10/31/01	10/31/01	
Vanadium	EPA 6010B	I1J3156	1.0	**24**	1	10/31/01	10/31/01	
Zinc	EPA 6010B	I1J3156	5.0	**170**	1	10/31/01	10/31/01	

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Project ID: Home Depot
04-6889V
Report Number: IKJ1231

Sampled: 10/31/01
Received: 10/31/01

METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			mg/kg	mg/kg				
Sample ID: IKJ1231-05 (SB-2-1 - Soil)								
Antimony	EPA 6010B	I1J3156	10	ND	1	10/31/01	10/31/01	
Arsenic	EPA 6010B	I1J3156	2.0	**3.1**	1	10/31/01	10/31/01	
Barium	EPA 6010B	I1J3156	1.0	**98**	1	10/31/01	10/31/01	
Beryllium	EPA 6010B	I1J3156	0.50	ND	1	10/31/01	10/31/01	
Cadmium	EPA 6010B	I1J3156	0.50	ND	1	10/31/01	10/31/01	
Chromium	EPA 6010B	I1J3156	1.0	**15**	1	10/31/01	10/31/01	
Cobalt	EPA 6010B	I1J3156	1.0	**6.7**	1	10/31/01	10/31/01	
Copper	EPA 6010B	I1J3156	1.0	**12**	1	10/31/01	10/31/01	
Lead	EPA 6010B	I1J3156	2.0	**33**	1	10/31/01	10/31/01	
Mercury	EPA 7471A	I1K0131	0.020	**0.042**	1	11/1/01	11/1/01	
Molybdenum	EPA 6010B	I1J3156	2.0	ND	1	10/31/01	10/31/01	
Nickel	EPA 6010B	I1J3156	1.0	**12**	1	10/31/01	10/31/01	
Selenium	EPA 6010B	I1J3156	2.0	ND	1	10/31/01	10/31/01	
Silver	EPA 6010B	I1J3156	1.0	ND	1	10/31/01	10/31/01	
Thallium	EPA 6010B	I1J3156	10	ND	1	10/31/01	10/31/01	
Vanadium	EPA 6010B	I1J3156	1.0	**29**	1	10/31/01	10/31/01	
Zinc	EPA 6010B	I1J3156	5.0	**50**	1	10/31/01	10/31/01	
Sample ID: IKJ1231-06 (SB-2-2 - Soil)								
Antimony	EPA 6010B	I1J3156	10	ND	1	10/31/01	10/31/01	
Arsenic	EPA 6010B	I1J3156	2.0	**2.4**	1	10/31/01	10/31/01	
Barium	EPA 6010B	I1J3156	1.0	**81**	1	10/31/01	10/31/01	
Beryllium	EPA 6010B	I1J3156	0.50	ND	1	10/31/01	10/31/01	
Cadmium	EPA 6010B	I1J3156	0.50	ND	1	10/31/01	10/31/01	
Chromium	EPA 6010B	I1J3156	1.0	**13**	1	10/31/01	10/31/01	
Cobalt	EPA 6010B	I1J3156	1.0	**5.4**	1	10/31/01	10/31/01	
Copper	EPA 6010B	I1J3156	1.0	**8.4**	1	10/31/01	10/31/01	
Lead	EPA 6010B	I1J3156	2.0	**32**	1	10/31/01	10/31/01	
Mercury	EPA 7471A	I1K0131	0.020	**0.048**	1	11/1/01	11/1/01	
Molybdenum	EPA 6010B	I1J3156	2.0	ND	1	10/31/01	10/31/01	
Nickel	EPA 6010B	I1J3156	1.0	**9.4**	1	10/31/01	10/31/01	
Selenium	EPA 6010B	I1J3156	2.0	ND	1	10/31/01	10/31/01	
Silver	EPA 6010B	I1J3156	1.0	ND	1	10/31/01	10/31/01	
Thallium	EPA 6010B	I1J3156	10	ND	1	10/31/01	10/31/01	
Vanadium	EPA 6010B	I1J3156	1.0	**23**	1	10/31/01	10/31/01	
Zinc	EPA 6010B	I1J3156	5.0	**45**	1	10/31/01	10/31/01	

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Report Number: IKJ1231

Sampled: 10/31/01
Received: 10/31/01

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I1J3156 Extracted: 10/31/01										
Blank Analyzed: 10/31/01 (I1J3156-BLK1)										
Antimony	ND	10	mg/kg							
Arsenic	ND	2.0	mg/kg							
Barium	ND	1.0	mg/kg							
Beryllium	ND	0.50	mg/kg							
Cadmium	ND	0.50	mg/kg							
Chromium	ND	1.0	mg/kg							
Cobalt	ND	1.0	mg/kg							
Copper	ND	1.0	mg/kg							
Lead	ND	2.0	mg/kg							
Molybdenum	ND	2.0	mg/kg							
Nickel	ND	1.0	mg/kg							
Selenium	ND	2.0	mg/kg							
Silver	ND	1.0	mg/kg							
Thallium	ND	10	mg/kg							
Vanadium	ND	1.0	mg/kg							
Zinc	ND	5.0	mg/kg							
LCS Analyzed: 10/31/01 (I1J3156-BS1)										
Antimony	46.9	10	mg/kg	50.0		93.8	80-120			
Arsenic	45.1	2.0	mg/kg	50.0		90.2	80-120			
Barium	44.7	1.0	mg/kg	50.0		89.4	80-120			
Beryllium	44.5	0.50	mg/kg	50.0		89.0	80-120			
Cadmium	44.0	0.50	mg/kg	50.0		88.0	80-120			
Chromium	45.3	1.0	mg/kg	50.0		90.6	80-120			
Cobalt	43.5	1.0	mg/kg	50.0		87.0	80-120			
Copper	43.0	1.0	mg/kg	50.0		86.0	80-120			
Lead	44.2	2.0	mg/kg	50.0		88.4	80-120			
Molybdenum	45.1	2.0	mg/kg	50.0		90.2	80-120			
Nickel	44.8	1.0	mg/kg	50.0		89.6	80-120			
Selenium	42.2	2.0	mg/kg	50.0		84.4	80-120			
Silver	23.1	1.0	mg/kg	25.0		92.4	80-120			
Thallium	40.5	10	mg/kg	50.0		81.0	80-120			
Vanadium	44.6	1.0	mg/kg	50.0		89.2	80-120			
Zinc	45.0	5.0	mg/kg	50.0		90.0	80-120			

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METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I1J3156 Extracted: 10/31/01										
Matrix Spike Analyzed: 10/31/01 (I1J3156-MS1)					**Source: IKJ1231-01**					
Antimony	25.7	10	mg/kg	50.0	ND	48.8	75-125			*M2*
Arsenic	51.8	2.0	mg/kg	50.0	2.6	98.4	75-125			
Barium	144	1.0	mg/kg	50.0	86	116	75-125			
Beryllium	47.6	0.50	mg/kg	50.0	ND	95.2	75-125			
Cadmium	47.1	0.50	mg/kg	50.0	ND	93.4	75-125			
Chromium	281	1.0	mg/kg	50.0	11	540	75-125			*M1*
Cobalt	57.9	1.0	mg/kg	50.0	4.7	106	75-125			
Copper	63.6	1.0	mg/kg	50.0	12	103	75-125			
Lead	88.2	2.0	mg/kg	50.0	38	100	75-125			
Molybdenum	50.5	2.0	mg/kg	50.0	ND	101	75-125			
Nickel	205	1.0	mg/kg	50.0	8.7	393	75-125			*M1*
Selenium	45.3	2.0	mg/kg	50.0	ND	90.6	75-125			
Silver	23.8	1.0	mg/kg	25.0	ND	95.2	75-125			
Thallium	45.6	10	mg/kg	50.0	ND	88.0	75-125			
Vanadium	71.8	1.0	mg/kg	50.0	19	106	75-125			
Zinc	146	5.0	mg/kg	50.0	91	110	75-125			
Matrix Spike Dup Analyzed: 10/31/01 (I1J3156-MSD1)					**Source: IKJ1231-01**					
Antimony	21.7	10	mg/kg	50.0	ND	40.8	75-125	16.9	20	*M2*
Arsenic	43.4	2.0	mg/kg	50.0	2.6	81.6	75-125	17.6	20	
Barium	119	1.0	mg/kg	50.0	86	66.0	75-125	19.0	20	*M2*
Beryllium	40.1	0.50	mg/kg	50.0	ND	80.2	75-125	17.1	20	
Cadmium	40.1	0.50	mg/kg	50.0	ND	79.4	75-125	16.1	20	
Chromium	59.5	1.0	mg/kg	50.0	11	97.0	75-125	130	20	*R-3*
Cobalt	44.2	1.0	mg/kg	50.0	4.7	79.0	75-125	26.8	20	*R-3*
Copper	52.8	1.0	mg/kg	50.0	12	81.6	75-125	18.6	20	
Lead	74.7	2.0	mg/kg	50.0	38	73.4	75-125	16.6	20	*M2*
Molybdenum	45.4	2.0	mg/kg	50.0	ND	90.8	75-125	10.6	20	
Nickel	82.2	1.0	mg/kg	50.0	8.7	147	75-125	85.5	20	*M1,R-3*
Selenium	38.8	2.0	mg/kg	50.0	ND	77.6	75-125	15.5	20	
Silver	20.4	1.0	mg/kg	25.0	ND	81.6	75-125	15.4	20	
Thallium	39.0	10	mg/kg	50.0	ND	74.8	75-125	15.6	20	
Vanadium	59.3	1.0	mg/kg	50.0	19	80.6	75-125	19.1	20	
Zinc	125	5.0	mg/kg	50.0	91	68.0	75-125	15.5	20	*M2*

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I1K0131 Extracted: 11/01/01										
Blank Analyzed: 11/01/01 (I1K0131-BLK1)										
Mercury	ND	0.020	mg/kg							
LCS Analyzed: 11/01/01 (I1K0131-BS1)										
Mercury	0.780	0.020	mg/kg	0.800		97.5	85-120			
Matrix Spike Analyzed: 11/01/01 (I1K0131-MS1)					**Source: IKJ1231-01**					
Mercury	0.842	0.020	mg/kg	0.800	0.071	96.4	65-135			
Matrix Spike Dup Analyzed: 11/01/01 (I1K0131-MSD1)					**Source: IKJ1231-01**					
Mercury	0.858	0.020	mg/kg	0.800	0.071	98.4	65-135	1.88	20	

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Project ID: Home Depot
04-6889V
Report Number: IKJ1231

Sampled: 10/31/01
Received: 10/31/01

DATA QUALIFIERS AND DEFINITIONS

M1	The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M2	The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
R-3	The RPD exceeded the method control limit due to sample matrix effects.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
NR	Not reported.
RPD	Relative Percent Difference

Del Mar Analytical, Irvine
Patty Mata
Project Manager

Del Mar Analytical

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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

LABORATORY REPORT

Prepared For: Environ-Irvine
2010 Main Street, 9th Floor
Irvine, CA 92614

Attention: Rebekah Wale
Project: Home Depot
04-6889V

Sampled: 10/31/01
Received: 10/31/01
Reported: 11/05/01

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CA ELAP Certificate #1197
AZ DHS License #AZ0428

Del Mar Analytical, Irvine
Patty Mata
Project Manager

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Environ-Irvine
2010 Main Street, 9th Floor
Irvine, CA 92614
Attention: Rebekah Wale

Project ID: Home Depot
04-6889V
Report Number: IKJ1231

Sampled: 10/31/01
Received: 10/31/01

STLC METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			mg/l	mg/l				
Sample ID: IKJ1231-02 (SB-1-1 - Soil)								
Lead	6010B-STLC	I1K0327	0.10	**1.4**	1	11/3/01	11/3/01	
Sample ID: IKJ1231-04 (SB-2-S - Soil)								
Lead	6010B-STLC	I1K0327	0.10	**11**	1	11/3/01	11/3/01	

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Environ-Irvine
2010 Main Street, 9th Floor
Irvine, CA 92614
Attention: Rebekah Wale

Project ID: Home Depot
04-6889V
Report Number: IKJ1231

Sampled: 10/31/01
Received: 10/31/01

WASTE EXTRACTION TEST (STLC) - Metals/Inorganics

Analyte	Method	Batch	Extraction Start Date	Extraction End Date	Data Qualifiers
Sample ID: IKJ1231-01 (SB-1-S - Soil)					
Extraction	STLC-Met	11J3160	10/31/01	11/2/01	
Sample ID: IKJ1231-02 (SB-1-1 - Soil)					
Extraction	STLC-Met	11J3160	10/31/01	11/2/01	
Sample ID: IKJ1231-03 (SB-1-2 - Soil)					
Extraction	STLC-Met	11J3160	10/31/01	11/2/01	
Sample ID: IKJ1231-04 (SB-2-S - Soil)					
Extraction	STLC-Met	11J3160	10/31/01	11/2/01	
Sample ID: IKJ1231-05 (SB-2-1 - Soil)					
Extraction	STLC-Met	11J3160	10/31/01	11/2/01	
Sample ID: IKJ1231-06 (SB-2-2 - Soil)					
Extraction	STLC-Met	11J3160	10/31/01	11/2/01	

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Patty Mata
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Environ-Irvine
2010 Main Street, 9th Floor
Irvine, CA 92614
Attention: Rebekah Wale

Project ID: Home Depot
04-6889V
Report Number: IKJ1231

Sampled: 10/31/01
Received: 10/31/01

METHOD BLANK/QC DATA

STLC METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I1K0327 Extracted: 11/03/01										
Blank Analyzed: 11/03/01 (I1K0327-BLK1)										
Lead	ND	0.10	mg/l							
LCS Analyzed: 11/03/01 (I1K0327-BS1)										
Lead	19.6	0.10	mg/l	20.0		98.0	80-120			
Matrix Spike Analyzed: 11/03/01 (I1K0327-MS1)					**Source: IKJ1231-02**					
Lead	21.1	0.10	mg/l	20.0	1.4	98.5	75-125			
Matrix Spike Dup Analyzed: 11/03/01 (I1K0327-MSD1)					**Source: IKJ1231-02**					
Lead	21.2	0.10	mg/l	20.0	1.4	99.0	75-125	0.473	20	

Del Mar Analytical, Irvine
Patty Mata
Project Manager

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2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Environ-Irvine	Project ID: Home Depot	
2010 Main Street, 9th Floor	04-6889V	Sampled: 10/31/01
Irvine, CA 92614	Report Number: IKJ1231	Received: 10/31/01
Attention: Rebekah Wale		

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

NR Not reported.

RPD Relative Percent Difference

Del Mar Analytical, Irvine
Patty Mata
Project Manager

ENVIRON
2010 Main St., Suite 900
Irvine, California 92614
(949) 261-5151
(949) 261-6202 (FAX)

CHAIN-of-CUSTODY

PROJECT NAME: HOME DEPOT
PROJECT NUMBER: 04-6889V
PROJECT LOCATION: Atlantic off Ramp, Signal Hill
FIELD PERSON: Yelia Melek
PROJECT MANAGER: Rebekah Wale
DATE: 10/31/01

SAMPLER: Yelia Melek
SIGNATURE:

SAMPLE I.D. NUMBER	SAMPLE DATE (YEAR 2000)	SAMPLE TIME	MATRIX (S) SOIL (G) GAS (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED: EPA 6010B (Cd, Cr, Ni, Pb, Zn)	EPA 7471A (Hg)	WET **	COMMENTS
SB-1-S	10/31	0820	S	1	U	N/A	✓	✓	✓	* 24 hr-TAT
SB-1-1'		0835		1			✓	✓	✓	** Please extract
SB-1-2'		0850		1			✓	✓	✓	all samples -
SB-2-S		0740		1			✓	✓	✓	run only those
SB-2-1'		0755		1			✓	✓	✓	metals exceeding
SB-2-2'		0810		1			✓	✓	✓	10 X STLC
TOTAL	X	X	X	6						

M/Mw

RELINQUISHED BY: Yelia Melek TIME/DATE: 1005/10/31/01
RELINQUISHED BY: TIME/DATE:
RELINQUISHED BY: TIME/DATE:

RECEIVED BY: TIME/DATE:
(COMPANY):
RECEIVED BY: TIME/DATE:
(COMPANY):
RECEIVED BY: TIME/DATE: 10/31/01 10:55
(COMPANY):

TURNAROUND TIME (CIRCLE ONE)
SAMEDAY | 72 HOURS
24 HOURS | 5 DAYS
48 HOURS | NORMAL

SAMPLE INTEGRITY
INTACT X ON ICE C o C

FILE: LOGS\CHNCST

O = OTHER; N = NONE; U = UNKNOWN; S = H_2SO_4; N = HNO_3; H = HCL

Del Mar Analytical

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2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

LABORATORY REPORT

Prepared For: Environ-Irvine
2010 Main Street, 9th Floor
Irvine, CA 92614

Attention: Rebekah Wale
Project: Home Depot
04-6889V

Sampled: 10/31/01
Received: 11/06/01
Reported: 11/08/01

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CA ELAP Certificate #1197
AZ DHS License #AZ0428

Del Mar Analytical, Irvine
Patty Mata
Project Manager

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Environ-Irvine
2010 Main Street, 9th Floor
Irvine, CA 92614
Attention: Rebekah Wale

Project ID: Home Depot
04-6889V
Report Number: IKK0238

Sampled: 10/31/01
Received: 11/06/01

CASE NARRATIVE

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX	ANALYSES
IKK0238-01	SB-2-S	Soil	6010B-TCLP EPA 1311-Met

SAMPLE RECEIPT: Samples were received intact, on ice at 6°C and with chain of custody documentation on 10/31/01. Additional TCLP Lead analysis request was made on 11/6/01.

HOLDING TIMES: Holding times were met.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria.

OBSERVATIONS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

DEL MAR ANALYTICAL, IRVINE (CA ELAP #1197)

Del Mar Analytical, Irvine
Patty Mata
Project Manager

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Environ-Irvine
2010 Main Street, 9th Floor
Irvine, CA 92614
Attention: Rebekah Wale

Project ID: Home Depot
04-6889V
Report Number: IKK0238

Sampled: 10/31/01
Received: 11/06/01

TCLP METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			mg/l	mg/l				
Sample ID: IKK0238-01 (SB-2-S - Soil)								
Lead	6010B-TCLP	I1K0880	0.10	ND	1	11/7/01	11/8/01	

Del Mar Analytical, Irvine
Patty Mata
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Environ-Irvine
2010 Main Street, 9th Floor
Irvine, CA 92614
Attention: Rebekah Wale

Project ID: Home Depot
04-6889V
Report Number: IKK0238

Sampled: 10/31/01
Received: 11/06/01

TCLP EXTRACTION - Metals

Analyte	Method	Batch	Extraction Start Date	Extraction End Date	Data Qualifiers
Sample ID: IKK0238-01 (SB-2-S - Soil)					
Extraction	EPA 1311-Met	11K0668	11/6/01	11/7/01	

Del Mar Analytical, Irvine
Patty Mata
Project Manager

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Environ-Irvine
2010 Main Street, 9th Floor
Irvine, CA 92614
Attention: Rebekah Wale

Project ID: Home Depot
04-6889V
Report Number: IKK0238

Sampled: 10/31/01
Received: 11/06/01

METHOD BLANK/QC DATA

TCLP METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I1K0880 Extracted: 11/07/01										
Blank Analyzed: 11/08/01 (I1K0880-BLK1)										
Lead	ND	0.10	mg/l							
LCS Analyzed: 11/08/01 (I1K0880-BS1)										
Lead	1.93	0.10	mg/l	2.00		96.5	80-120			
Matrix Spike Analyzed: 11/08/01 (I1K0880-MS1)					**Source: IKK0238-01**					
Lead	1.94	0.10	mg/l	2.00	ND	92.4	75-125			

Del Mar Analytical, Irvine
Patty Mata
Project Manager

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2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Environ-Irvine	Project ID: Home Depot	
2010 Main Street, 9th Floor	04-6889V	Sampled: 10/31/01
Irvine, CA 92614	Report Number: IKK0238	Received: 11/06/01
Attention: Rebekah Wale		

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

NR Not reported.

RPD Relative Percent Difference

Del Mar Analytical, Irvine
Patty Mata
Project Manager

Del Mar Analytical

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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

1KK0238

ADDITIONAL ANALYSIS REQUEST FORM

Today's Date: 11/6/01 Del Mar Analytical Project Manager:

Request via: X telephone ___ chain of custody form ___ fax transmission ___ E-mail ___ other

Client: Environ Contact: Rebekah Wale

Project: Home Depot 04-6889V

Date Sampled: 10/31/01 Date Received: 10/31/01

Status: ___ in progress X completed ___ received today ___ received yesterday ___ on hold ___ other

SAMPLE NUMBER	SAMPLE DESCRIPTION	ANALYSIS REQUESTED	SPECIAL REQUIREMENTS
1KJ1231-04	SB-2-S	TCLP Lead	

New work order please!

TURNAROUND STATUS: ___ Same Day ___ 24hr X 48hr ___ 3days

___ 5days ___ Standard ___ No Rush Charge

ENVIRON
2010 Main St., Suite 900
Irvine, California 92614
(949) 261-5151
(949) 261-6202 (FAX)

CHAIN-of-CUSTODY

PROJECT NAME: HOME DEPOT
PROJECT NUMBER: 04-6889 V
PROJECT LOCATION: Atlantic off Ramp, Signal Hill
FIELD PERSON: Yehia Melek
PROJECT MANAGER: Rebekah Wale
DATE: 10/31/01

SAMPLER: Yehia Melek
SIGNATURE: Yel

SAMPLE I.D. NUMBER	YEAR 2001 SAMPLE DATE	SAMPLE TIME	MATRIX (S) SOIL (G) GAS (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED: EPA 6010B (Cam-17 List)	EPA 7471A	WET **	COMMENTS
SB-1-S	10/31	0820	S	1	U	N/A	✓	✓	✓	* 24 hr-TAT
SB-1-1'		0835		1			✓	✓	✓	** Please extract
SB-1-2'		0850		1			✓	✓	✓	all samples -
SB-2-S		0745		1			✓	✓	✓	run only those
SB-2-1'		0755		1			✓	✓	✓	metals exceeding
SB-2-2'		0810		1	↓	↓	✓	✓	✓	10 X STLC
TOTAL	X	X	X	6						

H = HCL; N = HNO3; S = H2SO4; U = UNKNOWN; NO = NONE; O = OTHER

RELINQUISHED BY: Yehia Melek TIME/DATE: 1005 10/31/01
RELINQUISHED BY: TIME/DATE:
RELINQUISHED BY: TIME/DATE:

RECEIVED BY: TIME/DATE:
(COMPANY):
RECEIVED BY: TIME/DATE:
(COMPANY):
RECEIVED BY: TIME/DATE: 10/31/01 10:05
(COMPANY):

TURNAROUND TIME (CIRCLE ONE)
SAMEDAY | 72 HOURS
24 HOURS | 5 DAYS
48 HOURS | NORMAL

SAMPLE INTEGRITY
INTACT X ON ICE 2°C

FILE: LOGS\CHNCST

APPENDIX B

Previous Laboratory Analytical Results and Chain of Custody Forms

Del Mar Analytical

2852 Alton Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228
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LABORATORY REPORT

Prepared For: Environ-Irvine
2010 Main Street, 9th Floor
Irvine, CA 92614

Attention: Rebekah Wale
Project: Home Depot
Long Beach, 04-6889V

Sampled: 03/01/02
Received: 03/01/02
Reported: 03/05/02

This laboratory report is confidential and is intended for the sole use of Del Mar Analytical and its client. This entire report was reviewed and approved for release.

CA ELAP Certificate #1197
AZ DHS License #AZ0428

Del Mar Analytical, Irvine
Patty Mata
Project Manager

Del Mar Analytical

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Environ-Irvine
2010 Main Street, 9th Floor
Irvine, CA 92614
Attention: Rebekah Wale

Project ID: Home Depot
Long Beach, 04-6889V
Report Number: ILC0034

Sampled: 03/01/02
Received: 03/01/02

METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			mg/kg	mg/kg				
Sample ID: ILC0034-01 (SB10-0-0.5 - Soil)								
Lead	EPA 6010B	I2C0429	2.0	**39**	1	3/4/2002	3/4/2002	
Sample ID: ILC0034-02 (SB10-1-1.5 - Soil)								
Lead	EPA 6010B	I2C0429	2.0	**33**	1	3/4/2002	3/4/2002	
Sample ID: ILC0034-03 (SB10-2-2.5 - Soil)								
Lead	EPA 6010B	I2C0429	2.0	**2.7**	1	3/4/2002	3/4/2002	
Sample ID: ILC0034-04 (SB10-3-3.5 - Soil)								
Lead	EPA 6010B	I2C0429	2.0	**3.5**	1	3/4/2002	3/4/2002	
Sample ID: ILC0034-05 (SB10-4-4.5 - Soil)								
Lead	EPA 6010B	I2C0429	2.0	**3.5**	1	3/4/2002	3/4/2002	
Sample ID: ILC0034-06 (SB10-5-5.5 - Soil)								
Lead	EPA 6010B	I2C0429	2.0	**90**	1	3/4/2002	3/4/2002	
Sample ID: ILC0034-07 (SB3-0-0.5 - Soil)								
Lead	EPA 6010B	I2C0429	2.0	**36**	1	3/4/2002	3/4/2002	
Sample ID: ILC0034-08 (SB3-1-1.5 - Soil)								
Lead	EPA 6010B	I2C0429	2.0	**4.0**	1	3/4/2002	3/4/2002	

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Project ID: Home Depot
Long Beach, 04-6889V
Report Number: ILC0034

Sampled: 03/01/02
Received: 03/01/02

METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			mg/kg	mg/kg				
Sample ID: ILC0034-09 (SB3-2-2.5 - Soil)								
Lead	EPA 6010B	I2C0429	2.0	35	1	3/4/2002	3/4/2002	
Sample ID: ILC0034-10 (SB3-3-3.5 - Soil)								
Lead	EPA 6010B	I2C0429	2.0	4.1	1	3/4/2002	3/4/2002	
Sample ID: ILC0034-11 (SB3-4-4.5 - Soil)								
Lead	EPA 6010B	I2C0429	2.0	45	1	3/4/2002	3/4/2002	
Sample ID: ILC0034-12 (SB3-5-5.5 - Soil)								
Lead	EPA 6010B	I2C0429	2.0	2.8	1	3/4/2002	3/4/2002	
Sample ID: ILC0034-13 (SB4-0-0.5 - Soil)								
Lead	EPA 6010B	I2C0429	4.0	290	2	3/4/2002	3/5/2002	
Sample ID: ILC0034-14 (SB4-1-1.5 - Soil)								
Lead	EPA 6010B	I2C0429	2.0	4.1	1	3/4/2002	3/4/2002	
Sample ID: ILC0034-15 (SB4-2-2.5 - Soil)								
Lead	EPA 6010B	I2C0429	2.0	25	1	3/4/2002	3/4/2002	
Sample ID: ILC0034-16 (SB4-3-3.5 - Soil)								
Lead	EPA 6010B	I2C0429	2.0	4.1	1	3/4/2002	3/4/2002	

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METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			mg/kg	mg/kg				
Sample ID: ILC0034-17 (SB4-4-4.5 - Soil)								
Lead	EPA 6010B	I2C0429	2.0	**5.9**	1	3/4/2002	3/4/2002	
Sample ID: ILC0034-18 (SB4-5-5.5 - Soil)								
Lead	EPA 6010B	I2C0429	2.0	**2.2**	1	3/4/2002	3/4/2002	
Sample ID: ILC0034-19 (SB5-0-0.5 - Soil)								
Lead	EPA 6010B	I2C0429	2.0	**170**	1	3/4/2002	3/4/2002	
Sample ID: ILC0034-20 (SB5-1-1.5 - Soil)								
Lead	EPA 6010B	I2C0430	2.0	**3.4**	1	3/4/2002	3/4/2002	
Sample ID: ILC0034-21 (SB5-2-2.5 - Soil)								
Lead	EPA 6010B	I2C0430	2.0	**3.6**	1	3/4/2002	3/4/2002	
Sample ID: ILC0034-22 (SB5-3-3.5 - Soil)								
Lead	EPA 6010B	I2C0430	2.0	ND	1	3/4/2002	3/4/2002	
Sample ID: ILC0034-23 (SB5-4-4.5 - Soil)								
Lead	EPA 6010B	I2C0430	2.0	**2.9**	1	3/4/2002	3/4/2002	
Sample ID: ILC0034-24 (SB5-5-5.5 - Soil)								
Lead	EPA 6010B	I2C0430	2.0	ND	1	3/4/2002	3/4/2002	

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METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			mg/kg	mg/kg				
Sample ID: ILC0034-25 (SB6-0-0.5 - Soil)								
Lead	EPA 6010B	I2C0430	2.0	**32**	1	3/4/2002	3/4/2002	
Sample ID: ILC0034-26 (SB6-1-1.5 - Soil)								
Lead	EPA 6010B	I2C0430	2.0	**29**	1	3/4/2002	3/4/2002	
Sample ID: ILC0034-27 (SB6-2-2.5 - Soil)								
Lead	EPA 6010B	I2C0430	2.0	**4.4**	1	3/4/2002	3/4/2002	
Sample ID: ILC0034-28 (SB6-3-3.5 - Soil)								
Lead	EPA 6010B	I2C0430	2.0	**5.9**	1	3/4/2002	3/4/2002	
Sample ID: ILC0034-29 (SB6-4-4.5 - Soil)								
Lead	EPA 6010B	I2C0430	2.0	**4.3**	1	3/4/2002	3/4/2002	
Sample ID: ILC0034-30 (SB6-5-5.5 - Soil)								
Lead	EPA 6010B	I2C0430	2.0	**4.8**	1	3/4/2002	3/4/2002	
Sample ID: ILC0034-31 (SB7-0-0.5 - Soil)								
Lead	EPA 6010B	I2C0430	2.0	**73**	1	3/4/2002	3/4/2002	
Sample ID: ILC0034-32 (SB7-1-1.5 - Soil)								
Lead	EPA 6010B	I2C0430	2.0	**24**	1	3/4/2002	3/4/2002	

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METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			mg/kg	mg/kg				
Sample ID: ILC0034-33 (SB7-2-2.5 - Soil)								
Lead	EPA 6010B	I2C0430	2.0	**6.6**	1	3/4/2002	3/4/2002	
Sample ID: ILC0034-34 (SB7-3-3.5 - Soil)								
Lead	EPA 6010B	I2C0430	2.0	**4.9**	1	3/4/2002	3/4/2002	
Sample ID: ILC0034-35 (SB7-4-4.5 - Soil)								
Lead	EPA 6010B	I2C0430	2.0	**4.4**	1	3/4/2002	3/4/2002	
Sample ID: ILC0034-36 (SB7-5-5.5 - Soil)								
Lead	EPA 6010B	I2C0430	2.0	**2.7**	1	3/4/2002	3/4/2002	
Sample ID: ILC0034-37 (SB8-0-0.5 - Soil)								
Lead	EPA 6010B	I2C0430	2.0	**73**	1	3/4/2002	3/4/2002	
Sample ID: ILC0034-38 (SB8-1-1.5 - Soil)								
Lead	EPA 6010B	I2C0430	2.0	**7.5**	1	3/4/2002	3/4/2002	
Sample ID: ILC0034-39 (SB8-2-2.5 - Soil)								
Lead	EPA 6010B	I2C0430	2.0	**5.6**	1	3/4/2002	3/4/2002	
Sample ID: ILC0034-40 (SB8-3-3.5 - Soil)								
Lead	EPA 6010B	I2C0431	2.0	**4.7**	1	3/4/2002	3/4/2002	

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			mg/kg	mg/kg				
Sample ID: ILC0034-41 (SB8-4-4.5 - Soil)								
Lead	EPA 6010B	I2C0431	2.0	**9.5**	1	3/4/2002	3/4/2002	
Sample ID: ILC0034-42 (SB8-5-5.5 - Soil)								
Lead	EPA 6010B	I2C0431	2.0	**4.9**	1	3/4/2002	3/5/2002	
Sample ID: ILC0034-43 (SB9-0-0.5 - Soil)								
Lead	EPA 6010B	I2C0431	2.0	**18**	1	3/4/2002	3/5/2002	
Sample ID: ILC0034-44 (SB9-1-1.5 - Soil)								
Lead	EPA 6010B	I2C0431	2.0	**8.9**	1	3/4/2002	3/5/2002	
Sample ID: ILC0034-45 (SB9-2-2.5 - Soil)								
Lead	EPA 6010B	I2C0431	2.0	**11**	1	3/4/2002	3/5/2002	
Sample ID: ILC0034-46 (SB9-3-3.5 - Soil)								
Lead	EPA 6010B	I2C0431	2.0	**6.3**	1	3/4/2002	3/5/2002	
Sample ID: ILC0034-47 (SB9-4-4.5 - Soil)								
Lead	EPA 6010B	I2C0431	2.0	**21**	1	3/4/2002	3/5/2002	
Sample ID: ILC0034-48 (SB9-5-5.5 - Soil)								
Lead	EPA 6010B	I2C0431	2.0	**12**	1	3/4/2002	3/5/2002	

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Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			pH Units	pH Units				
Sample ID: ILC0034-01 (SB10-0-0.5 - Soil)								
pH	EPA 9045C	I2C0166	NA	**8.23**	1	3/1/2002	3/1/2002	
Sample ID: ILC0034-02 (SB10-1-1.5 - Soil)								
pH	EPA 9045C	I2C0166	NA	**8.49**	1	3/1/2002	3/1/2002	
Sample ID: ILC0034-03 (SB10-2-2.5 - Soil)								
pH	EPA 9045C	I2C0166	NA	**8.95**	1	3/1/2002	3/1/2002	
Sample ID: ILC0034-04 (SB10-3-3.5 - Soil)								
pH	EPA 9045C	I2C0166	NA	**8.74**	1	3/1/2002	3/1/2002	
Sample ID: ILC0034-05 (SB10-4-4.5 - Soil)								
pH	EPA 9045C	I2C0166	NA	**8.47**	1	3/1/2002	3/1/2002	
Sample ID: ILC0034-06 (SB10-5-5.5 - Soil)								
pH	EPA 9045C	I2C0166	NA	**8.66**	1	3/1/2002	3/1/2002	
Sample ID: ILC0034-07 (SB3-0-0.5 - Soil)								
pH	EPA 9045C	I2C0166	NA	**8.87**	1	3/1/2002	3/1/2002	
Sample ID: ILC0034-08 (SB3-1-1.5 - Soil)								
pH	EPA 9045C	I2C0166	NA	**9.05**	1	3/1/2002	3/1/2002	

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Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			pH Units	pH Units				
Sample ID: ILC0034-09 (SB3-2-2.5 - Soil)								
pH	EPA 9045C	I2C0166	NA	**8.26**	1	3/1/2002	3/1/2002	
Sample ID: ILC0034-10 (SB3-3-3.5 - Soil)								
pH	EPA 9045C	I2C0166	NA	**9.53**	1	3/1/2002	3/1/2002	
Sample ID: ILC0034-11 (SB3-4-4.5 - Soil)								
pH	EPA 9045C	I2C0166	NA	**8.89**	1	3/1/2002	3/1/2002	
Sample ID: ILC0034-12 (SB3-5-5.5 - Soil)								
pH	EPA 9045C	I2C0166	NA	**9.08**	1	3/1/2002	3/1/2002	
Sample ID: ILC0034-13 (SB4-0-0.5 - Soil)								
pH	EPA 9045C	I2C0166	NA	**7.79**	1	3/1/2002	3/1/2002	
Sample ID: ILC0034-14 (SB4-1-1.5 - Soil)								
pH	EPA 9045C	I2C0166	NA	**8.90**	1	3/1/2002	3/1/2002	
Sample ID: ILC0034-15 (SB4-2-2.5 - Soil)								
pH	EPA 9045C	I2C0166	NA	**7.95**	1	3/1/2002	3/1/2002	
Sample ID: ILC0034-16 (SB4-3-3.5 - Soil)								
pH	EPA 9045C	I2C0166	NA	**8.81**	1	3/1/2002	3/1/2002	

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Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			pH Units	pH Units				
Sample ID: ILC0034-17 (SB4-4-4.5 - Soil)								
pH	EPA 9045C	I2C0166	NA	**8.63**	1	3/1/2002	3/1/2002	
Sample ID: ILC0034-18 (SB4-5-5.5 - Soil)								
pH	EPA 9045C	I2C0166	NA	**9.18**	1	3/1/2002	3/1/2002	
Sample ID: ILC0034-19 (SB5-0-0.5 - Soil)								
pH	EPA 9045C	I2C0166	NA	**7.90**	1	3/1/2002	3/1/2002	
Sample ID: ILC0034-20 (SB5-1-1.5 - Soil)								
pH	EPA 9045C	I2C0166	NA	**8.04**	1	3/1/2002	3/1/2002	
Sample ID: ILC0034-21 (SB5-2-2.5 - Soil)								
pH	EPA 9045C	I2C0167	NA	**8.02**	1	3/1/2002	3/1/2002	
Sample ID: ILC0034-22 (SB5-3-3.5 - Soil)								
pH	EPA 9045C	I2C0167	NA	**8.19**	1	3/1/2002	3/1/2002	
Sample ID: ILC0034-23 (SB5-4-4.5 - Soil)								
pH	EPA 9045C	I2C0167	NA	**8.01**	1	3/1/2002	3/1/2002	
Sample ID: ILC0034-24 (SB5-5-5.5 - Soil)								
pH	EPA 9045C	I2C0167	NA	**7.96**	1	3/1/2002	3/1/2002	

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Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			pH Units	pH Units				
Sample ID: ILC0034-25 (SB6-0-0.5 - Soil)								
pH	EPA 9045C	I2C0167	NA	**7.87**	1	3/1/2002	3/1/2002	
Sample ID: ILC0034-26 (SB6-1-1.5 - Soil)								
pH	EPA 9045C	I2C0167	NA	**7.29**	1	3/1/2002	3/1/2002	
Sample ID: ILC0034-27 (SB6-2-2.5 - Soil)								
pH	EPA 9045C	I2C0167	NA	**7.59**	1	3/1/2002	3/1/2002	
Sample ID: ILC0034-28 (SB6-3-3.5 - Soil)								
pH	EPA 9045C	I2C0167	NA	**8.02**	1	3/1/2002	3/1/2002	
Sample ID: ILC0034-29 (SB6-4-4.5 - Soil)								
pH	EPA 9045C	I2C0167	NA	**7.32**	1	3/1/2002	3/1/2002	
Sample ID: ILC0034-30 (SB6-5-5.5 - Soil)								
pH	EPA 9045C	I2C0167	NA	**7.75**	1	3/1/2002	3/1/2002	
Sample ID: ILC0034-31 (SB7-0-0.5 - Soil)								
pH	EPA 9045C	I2C0167	NA	**7.49**	1	3/1/2002	3/1/2002	
Sample ID: ILC0034-32 (SB7-1-1.5 - Soil)								
pH	EPA 9045C	I2C0167	NA	**8.07**	1	3/1/2002	3/1/2002	

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Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			pH Units	pH Units				
Sample ID: ILC0034-33 (SB7-2-2.5 - Soil)								
pH	EPA 9045C	I2C0167	NA	**8.36**	1	3/1/2002	3/1/2002	
Sample ID: ILC0034-34 (SB7-3-3.5 - Soil)								
pH	EPA 9045C	I2C0167	NA	**8.29**	1	3/1/2002	3/1/2002	
Sample ID: ILC0034-35 (SB7-4-4.5 - Soil)								
pH	EPA 9045C	I2C0167	NA	**8.50**	1	3/1/2002	3/1/2002	
Sample ID: ILC0034-36 (SB7-5-5.5 - Soil)								
pH	EPA 9045C	I2C0167	NA	**8.30**	1	3/1/2002	3/1/2002	
Sample ID: ILC0034-37 (SB8-0-0.5 - Soil)								
pH	EPA 9045C	I2C0167	NA	**8.01**	1	3/1/2002	3/1/2002	
Sample ID: ILC0034-38 (SB8-1-1.5 - Soil)								
pH	EPA 9045C	I2C0167	NA	**8.25**	1	3/1/2002	3/1/2002	
Sample ID: ILC0034-39 (SB8-2-2.5 - Soil)								
pH	EPA 9045C	I2C0167	NA	**8.22**	1	3/1/2002	3/1/2002	
Sample ID: ILC0034-40 (SB8-3-3.5 - Soil)								
pH	EPA 9045C	I2C0167	NA	**8.26**	1	3/1/2002	3/1/2002	

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Attention: Rebekah Wale

Project ID: Home Depot
Long Beach, 04-6889V
Report Number: ILC0034

Sampled: 03/01/02
Received: 03/01/02

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			pH Units	pH Units				
Sample ID: ILC0034-41 (SB8-4-4.5 - Soil)								
pH	EPA 9045C	I2C0168	NA	**6.70**	1	3/1/2002	3/1/2002	
Sample ID: ILC0034-42 (SB8-5-5.5 - Soil)								
pH	EPA 9045C	I2C0168	NA	**8.34**	1	3/1/2002	3/1/2002	
Sample ID: ILC0034-43 (SB9-0-0.5 - Soil)								
pH	EPA 9045C	I2C0168	NA	**7.31**	1	3/1/2002	3/1/2002	
Sample ID: ILC0034-44 (SB9-1-1.5 - Soil)								
pH	EPA 9045C	I2C0168	NA	**7.82**	1	3/1/2002	3/1/2002	
Sample ID: ILC0034-45 (SB9-2-2.5 - Soil)								
pH	EPA 9045C	I2C0168	NA	**7.77**	1	3/1/2002	3/1/2002	
Sample ID: ILC0034-46 (SB9-3-3.5 - Soil)								
pH	EPA 9045C	I2C0168	NA	**7.79**	1	3/1/2002	3/1/2002	
Sample ID: ILC0034-47 (SB9-4-4.5 - Soil)								
pH	EPA 9045C	I2C0168	NA	**8.19**	1	3/1/2002	3/1/2002	
Sample ID: ILC0034-48 (SB9-5-5.5 - Soil)								
pH	EPA 9045C	I2C0168	NA	**7.63**	1	3/1/2002	3/1/2002	

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Project ID: Home Depot
Long Beach, 04-6889V
Report Number: ILC0034

Sampled: 03/01/02
Received: 03/01/02

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2C0429 Extracted: 03/04/02										
Blank Analyzed: 03/04/02 (I2C0429-BLK1)										
Lead	ND	2.0	mg/kg							
LCS Analyzed: 03/04/02 (I2C0429-BS1)										
Lead	50.1	2.0	mg/kg	50.0		100	80-120			
Matrix Spike Analyzed: 03/04/02 (I2C0429-MS1)					**Source: ILC0034-11**					
Lead	98.7	2.0	mg/kg	50.0	45	107	75-125			
Matrix Spike Dup Analyzed: 03/04/02 (I2C0429-MSD1)					**Source: ILC0034-11**					
Lead	85.8	2.0	mg/kg	50.0	45	82	75-125	14	20	
Batch: I2C0430 Extracted: 03/04/02										
Blank Analyzed: 03/04/02 (I2C0430-BLK1)										
Lead	ND	2.0	mg/kg							
LCS Analyzed: 03/04/02 (I2C0430-BS1)										
Lead	46.3	2.0	mg/kg	50.0		93	80-120			
Matrix Spike Analyzed: 03/04/02 (I2C0430-MS1)					**Source: ILC0034-20**					
Lead	44.9	2.0	mg/kg	50.0	3.4	83	75-125			
Matrix Spike Dup Analyzed: 03/04/02 (I2C0430-MSD1)					**Source: ILC0034-20**					
Lead	46.7	2.0	mg/kg	50.0	3.4	87	75-125	4	20	
Batch: I2C0431 Extracted: 03/04/02										
Blank Analyzed: 03/04/02 (I2C0431-BLK1)										
Lead	ND	2.0	mg/kg							

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Irvine, CA 92614
Attention: Rebekah Wale

Project ID: Home Depot
Long Beach, 04-6889V
Report Number: ILC0034

Sampled: 03/01/02
Received: 03/01/02

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2C0431 Extracted: 03/04/02										
LCS Analyzed: 03/04/02 (I2C0431-BS1)										
Lead	49.7	2.0	mg/kg	50.0		99	80-120			
Matrix Spike Analyzed: 03/04/02 (I2C0431-MS1)					**Source: ILC0034-40**					
Lead	60.1	2.0	mg/kg	50.0	4.7	111	75-125			
Matrix Spike Dup Analyzed: 03/04/02 (I2C0431-MSD1)					**Source: ILC0034-40**					
Lead	59.8	2.0	mg/kg	50.0	4.7	110	75-125	1	20	

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Attention: Rebekah Wale

Project ID: Home Depot
Long Beach, 04-6889V
Report Number: ILC0034

Sampled: 03/01/02
Received: 03/01/02

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2C0166 Extracted: 03/01/02										
Duplicate Analyzed: 03/01/02 (I2C0166-DUP1)					**Source: ILC0034-01**					
pH	8.26	NA	pH Units		8.23			0	5	
Batch: I2C0167 Extracted: 03/01/02										
Duplicate Analyzed: 03/01/02 (I2C0167-DUP1)					**Source: ILC0034-21**					
pH	7.99	NA	pH Units		8.02			0	5	
Batch: I2C0168 Extracted: 03/01/02										
Duplicate Analyzed: 03/01/02 (I2C0168-DUP1)					**Source: ILC0034-41**					
pH	6.68	NA	pH Units		6.70			0	5	

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Irvine, CA 92614
Attention: Rebekah Wale

Project ID: Home Depot
Long Beach, 04-6889V
Report Number: ILC0034

Sampled: 03/01/02
Received: 03/01/02

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

NR Not reported.

RPD Relative Percent Difference

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Project Manager

ENVIRON

CHAIN-of-CUSTODY

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MSA#: SCB4202-1 WO#: We2002-8

PROJECT NAME / FACILITY ID: Home Depot - Long Beach FIELD PERSON: Safaa Dergham

PROJECT NUMBER: 104-6889V DATE: 03/01/02 PROJECT MANAGER: Rebekah Wale

PROJECT LOCATION: 405 Fwy + Atlantic off Ramp South LABORATORY: Del Mar Analytical

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #:

SAMPLER: SAFAA DERGHAM

SIGNATURE:

SAMPLE I.D. NUMBER	YEAR 2002 SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH	MATRIX (S) SOIL (G) GAS (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED 8010/8020 (Lead only) 418.1 PH	COMMENTS
SB10-0-0.5	3/1		←	S	1	N/a	Ice		
SB10-1-1.5	↓			↓	1	↓	↓		
SB10-2-2.5					1				
SB10-3-3.5					1				
SB10-4-4.5					1				
SB10-5-5.5					1				
SB3-0-0.5					1				
SB3-1-1.5					1				
SB3-2-2.5					1				
SB3-3-3.5	↓			↓	1	↓	↓		
TOTAL	X	X	X		10				

H = HCL; N = HNO_3; S = H_2SO_4; U = UNKNOWN; NO = NONE; O = OTHER

RELINQUISHED BY:	TIME/DATE: 1320 / 03-01-02	RECEIVED BY: (COMPANY):	TIME/DATE:
RELINQUISHED BY:	TIME/DATE: 1320 3-01-02	RECEIVED BY: (COMPANY):	TIME/DATE:
RELINQUISHED BY:	TIME/DATE: 1400 / 03-01-02	RECEIVED BY: (COMPANY):	TIME/DATE: 1400 3-1-02

TURNAROUND TIME (CIRCLE ONE): SAMEDAY, 24 HOURS, 48 HOURS, 72 HOURS, 5 DAYS, NORMAL

SAMPLE INTEGRITY: INTACT YES ON ICE 2 °C

FRE LOGS\CHNCST

ENVIRON

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CHAIN-of-CUSTODY

00555 PAGE 2 of 5

MSA#: SCB1-2002-17 WO#: 102002-8

PROJECT NAME / FACILITY ID: HOME DEPOT -LONG BEACH FIELD PERSON: SAFAA DERGHAM

PROJECT NUMBER: 04-6889V DATE: 3/1/02 PROJECT MANAGER: REBEKAH WALE

PROJECT LOCATION: 405 FWY & ATLANTIC OFF RAMP-SOUTH LABORATORY: DEL MAR

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #:

SAMPLER: SAFAA DERGHAM

SIGNATURE:

SAMPLE I.D. NUMBER	YEAR 2002 SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH	MATRIX (S) SOIL (G) GAS (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED 6010/7420 (total, lead) PH	COMMENTS
SB3-4-4.5	3/1		↑	S	1	F	ICE	X X	
SB3-5-5.5	↓			↓	1	F	↓	X X	
SB4-0-0.5					1	F		X X	
SB4-1-1.5					1	F		X X	
SB4-2-2.5					1	F		X X	
SB4-3-3.5					1	F		X X	
SB4-4-4.5					1	F		X X	
SB4-5-5.5					1	F		X X	
SB5-0-0.5					1	F		X X	
SB5-1-1.5	↓			↓	1	F	↓	X X	
TOTAL	X	X	X		10				

H = HCL; N = HNO3; S = H2SO4; U = UNKNOWN; NO = NONE; O = OTHER

RELINQUISHED BY:	TIME/DATE: 1320 / 03-01-02	RECEIVED BY: (COMPANY):	TIME/DATE:
RELINQUISHED BY:	TIME/DATE: 1320 3-01-02	RECEIVED BY: (COMPANY):	TIME/DATE:
RELINQUISHED BY:	TIME/DATE: 1400 / 03-01-02	RECEIVED BY: (COMPANY):	TIME/DATE: 1400 3-1-02

TURNAROUND TIME (CIRCLE ONE): SAMEDAY, 24 HOURS, 48 HOURS, 72 HOURS, 5 DAYS, NORMAL

SAMPLE INTEGRITY: INTACT 4C5 ON ICE 2°C

T:\EC LOGS\CHNCST

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CHAIN-of-CUSTODY

00556 PAGE 3 of 5

MSA#: SCAU-2002-D WO#: W02002-8

PROJECT NAME / FACILITY ID: Home depot - Long Beach FIELD PERSON: S. Dorgham

PROJECT NUMBER: 04-6889V DATE: 3/1/02 PROJECT MANAGER: Rebekah Wale

PROJECT LOCATION: 405 Fwy + Atlantic off Comp-Sull LABORATORY: Del Mar

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #:

SAMPLER: SAFAA DERGHAM

SIGNATURE:

SAMPLE I.D. NUMBER	SAMPLE DATE (YEAR 02)	SAMPLE TIME	SAMPLE DEPTH	MATRIX (S) SOIL (G) GAS (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED: BOD / TPH (8015 Mod) / PH	COMMENTS
SB5-2-2.5	3/1		←	S	1	U	ice	X X	
SB5-3-3.5	"			"	1	U	"	X X	
SB5-4-4.5	"			"	1	U	"	X X	
SB5-5-5.5	"			"	1	U	"	X X	
SB6-0-0.5	"			"	1	U	"	X X	
SB6-1-1.5	"			"	1	U	"	X X	
SB6-2-2.5	"			"	1	U	"	X X	
SB6-3-3.5	"			"	1	U	"	X X	
SB6-4-4.5	"			"	1	U	"	X X	
SB6-5-5.5	"			↓	1	U	↓	X X	
TOTAL	X	X	X		10				

RELINQUISHED BY:	TIME/DATE: 1320 03-01-02	RECEIVED BY: (COMPANY):	TIME/DATE: 1320 3-1-02
RELINQUISHED BY:	TIME/DATE:	RECEIVED BY: (COMPANY)	TIME/DATE:
RELINQUISHED BY:	TIME/DATE: 1400 03-01-02	RECEIVED BY: (COMPANY)	TIME/DATE: 1400 3-1-02

TURNAROUND TIME (CIRCLE ONE): SAMEDAY, 24 HOURS, 48 HOURS, 72 HOURS, 5 DAYS, NORMAL

SAMPLE INTEGRITY: INTACT YES ON ICE 2°C

H = HCL; N = HNO3; S = H2SO4; U = UNKNOWN; NO = NONE; O = OTHER

FILE LOGS\CHNCST

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CHAIN-of-CUSTODY

00557 PAGE 4 of 5

MSA#: SBU-2002-17 WO#: W02002-8

PROJECT NAME / FACILITY ID: Home depot - Long Beach FIELD PERSON: S. Dekham

PROJECT NUMBER: 04-6889V DATE: 3/1/02 PROJECT MANAGER: Rebekah Wake

PROJECT LOCATION: 405 FWY + Atlantic off Ramps LABORATORY: Del Mar

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #:

SAMPLER: SAFAA DERGHAM

SIGNATURE:

SAMPLE I.D. NUMBER	YEAR 02 SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH	MATRIX (S) SOIL (G) GAS (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED 6010/7420 (TOTAL Lead)	PH								COMMENTS
SB7-0-0.5	03/01			S	1	U	1Q	X	X								
SB7-1-1.5					1	U		X	X								
SB7-2-2.5					1	U		X	X								
SB7-3-3.5					1	U		X	X								
SB7-4-4.5					1	U		X	X								
SB7-5-5.5					1	U		X	X								
SB8-0-0.5					1	U		X	X								
SB8-1-1.5					1	U		X	X								
SB8-2-2.5					1	U		X	X								
SB8-3-3.5					1	U		X	X								
TOTAL	X	X	X		10												

RELINQUISHED BY:	TIME/DATE: 1320/03-01-02	RECEIVED BY: (COMPANY):	TIME/DATE:
RELINQUISHED BY:	TIME/DATE: 1320 3-1-02	RECEIVED BY: (COMPANY):	TIME/DATE:
RELINQUISHED BY:	TIME/DATE: 1400/03-01-02	RECEIVED BY: (COMPANY):	TIME/DATE: 1400 3-1-02

TURNAROUND TIME (CIRCLE ONE): SAMEDAY, 24 HOURS, 48 HOURS, 72 HOURS, 5 DAYS, NORMAL

SAMPLE INTEGRITY: INTACT Yes ON ICE 2°C

H = HCL; N = HNO_3; S = H_2SO_4; U = UNKNOWN; NO = NONE; O = OTHER

FILE: LOGS\CHNCST

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CHAIN-of-CUSTODY

00558 PAGE 5 of 5

MSA#: SCAU-2002-17 WO#: WO2002-8

PROJECT NAME / FACILITY ID: Home Depot Long Beach FIELD PERSON: S. Dearham

PROJECT NUMBER: 04-6889V DATE: 03-01-02 PROJECT MANAGER: Rebekah Wake

PROJECT LOCATION: 405 Fwy + Atlantic off Long S. LABORATORY: Del Mar

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #:

SAMPLER: SARAH DEARHAM

SIGNATURE:

SAMPLE I.D. NUMBER	YEAR 02 SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH	MATRIX (S) SOIL (G) GAS (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED 8010/7420 (Total Lead)	PH	COMMENTS
SB8-4-4.5	03/01		←	S	1	U	Ice	X	X	
SB8-5-5.5					1	U		X	X	
SB9-0-0.5					1	U		X	X	
SB9-1-1.5					1	U		X	X	
SB9-2-2.5					1	U		X	X	
SB9-3-3.5					1	U		X	X	
SB9-4-4.5					1	U		X	X	
SB9-5-5.5					1	U		X	X	
TOTAL	X	X	X		8					

RELINQUISHED BY:	TIME/DATE: 1320 03-01-02	RECEIVED BY:	TIME/DATE:	TURNAROUND TIME (CIRCLE ONE)	SAMEDAY / 72 HOURS / 24 HOURS / 5 DAYS / 48 HOURS / NORMAL
RELINQUISHED BY:	TIME/DATE: 1320 3-01-02	RECEIVED BY: (COMPANY):	TIME/DATE:		
RELINQUISHED BY:	TIME/DATE: 1400 03-01-02	RECEIVED BY: (COMPANY):	TIME/DATE: 1400 3-1-02	SAMPLE INTEGRITY INTACT YES	ON ICE 2°C

H = HCL; N = HNO3; S = H2SO4; U = UNKNOWN; NO = NONE; O = OTHER

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LABORATORY REPORT

Prepared For: Environ-Irvine
2010 Main Street, 9th Floor
Irvine, CA 92614

Attention: Rebekah Wale
Project: Home Depot
Long Beach, 04-6889V

Sampled: 03/01/02
Received: 03/06/02
Reported: 03/11/02

This laboratory report is confidential and is intended for the sole use of Del Mar Analytical and its client. This entire report was reviewed and approved for release.

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AZ DHS License #AZ0428

Del Mar Analytical, Irvine
Patty Mata
Project Manager

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Environ-Irvine
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Project ID: Home Depot
Long Beach, 04-6889V
Report Number: ILC0222

Sampled: 03/01/02
Received: 03/06/02

CASE NARRATIVE

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX	ANALYSES
ILC0222-01	SB10-0-0.5	Soil	EPA 6010B
			EPA 7471A
ILC0222-02	SB10-1-1.5	Soil	EPA 6010B
			EPA 7471A
ILC0222-03	SB10-5-5.5	Soil	6010B-STLC
			EPA 6010B
			EPA 7471A
			STLC-Met
ILC0222-04	SB3-0-0.5	Soil	EPA 6010B
			EPA 7471A
ILC0222-05	SB3-2-2.5	Soil	EPA 6010B
			EPA 7471A
ILC0222-06	SB3-4-4.5	Soil	EPA 6010B
			EPA 7471A
ILC0222-07	SB4-0-0.5	Soil	6010B-STLC
			EPA 6010B
			EPA 7471A
			EPA 8260B
			EPA 8270C
			STLC-Met
ILC0222-08	SB5-0-0.5	Soil	6010B-STLC
			EPA 6010B
			EPA 7471A
			STLC-Met
ILC0222-09	SB7-0-0.5	Soil	6010B-STLC
			EPA 6010B
			EPA 7471A
			STLC-Met

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Environ-Irvine
2010 Main Street, 9th Floor
Irvine, CA 92614
Attention: Rebekah Wale

Project ID: Home Depot
Long Beach, 04-6889V
Report Number: ILC0222

Sampled: 03/01/02
Received: 03/06/02

CASE NARRATIVE

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX	ANALYSES
ILC0222-10	SB8-0-0.5	Soil	6010B-STLC EPA 6010B EPA 7471A STLC-Met

SAMPLE RECEIPT: Samples were received intact, on ice at 2°C, and with chain of custody documentation on 3/1/02. Additional analysis request was received on 3/6/02.

HOLDING TIMES: Holding times were met.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria except as flagged under the Data Qualifiers column.

OBSERVATIONS: EPA 8270C SVOC results for sample ILC0222-07 (SB4-0-0.5) were reported from a dilution due to suspected matrix interference (dark colored extract). Reporting limits were elevated due to the dilution, so sample results were reported down to the MDLs.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

DEL MAR ANALYTICAL, IRVINE (CA ELAP #1197)

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Project ID: Home Depot
Long Beach, 04-6889V
Report Number: ILC0222

Sampled: 03/01/02
Received: 03/06/02

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/kg	ug/kg	ug/kg				
Sample ID: ILC0222-07 (SB4-0-0.5 - Soil)									
Benzene	EPA 8260B	I2C0610	N/A	2.0	ND	1	03/06/02	03/07/02	
Bromobenzene	EPA 8260B	I2C0610	N/A	5.0	ND	1	03/06/02	03/07/02	
Bromochloromethane	EPA 8260B	I2C0610	N/A	5.0	ND	1	03/06/02	03/07/02	
Bromodichloromethane	EPA 8260B	I2C0610	N/A	2.0	ND	1	03/06/02	03/07/02	
Bromoform	EPA 8260B	I2C0610	N/A	5.0	ND	1	03/06/02	03/07/02	
Bromomethane	EPA 8260B	I2C0610	N/A	5.0	ND	1	03/06/02	03/07/02	
n-Butylbenzene	EPA 8260B	I2C0610	N/A	5.0	ND	1	03/06/02	03/07/02	
sec-Butylbenzene	EPA 8260B	I2C0610	N/A	5.0	ND	1	03/06/02	03/07/02	
tert-Butylbenzene	EPA 8260B	I2C0610	N/A	5.0	ND	1	03/06/02	03/07/02	
Carbon tetrachloride	EPA 8260B	I2C0610	N/A	5.0	ND	1	03/06/02	03/07/02	
Chlorobenzene	EPA 8260B	I2C0610	N/A	2.0	ND	1	03/06/02	03/07/02	
Chloroethane	EPA 8260B	I2C0610	N/A	5.0	ND	1	03/06/02	03/07/02	
Chloroform	EPA 8260B	I2C0610	N/A	2.0	ND	1	03/06/02	03/07/02	
Chloromethane	EPA 8260B	I2C0610	N/A	5.0	ND	1	03/06/02	03/07/02	
2-Chlorotoluene	EPA 8260B	I2C0610	N/A	5.0	ND	1	03/06/02	03/07/02	
4-Chlorotoluene	EPA 8260B	I2C0610	N/A	5.0	ND	1	03/06/02	03/07/02	
Dibromochloromethane	EPA 8260B	I2C0610	N/A	2.0	ND	1	03/06/02	03/07/02	
1,2-Dibromo-3-chloropropane	EPA 8260B	I2C0610	N/A	5.0	ND	1	03/06/02	03/07/02	
1,2-Dibromoethane (EDB)	EPA 8260B	I2C0610	N/A	2.0	ND	1	03/06/02	03/07/02	
Dibromomethane	EPA 8260B	I2C0610	N/A	2.0	ND	1	03/06/02	03/07/02	
1,2-Dichlorobenzene	EPA 8260B	I2C0610	N/A	2.0	ND	1	03/06/02	03/07/02	
1,3-Dichlorobenzene	EPA 8260B	I2C0610	N/A	2.0	ND	1	03/06/02	03/07/02	
1,4-Dichlorobenzene	EPA 8260B	I2C0610	N/A	2.0	ND	1	03/06/02	03/07/02	
Dichlorodifluoromethane	EPA 8260B	I2C0610	N/A	5.0	ND	1	03/06/02	03/07/02	
1,1-Dichloroethane	EPA 8260B	I2C0610	N/A	2.0	ND	1	03/06/02	03/07/02	
1,2-Dichloroethane	EPA 8260B	I2C0610	N/A	2.0	ND	1	03/06/02	03/07/02	
1,1-Dichloroethene	EPA 8260B	I2C0610	N/A	5.0	ND	1	03/06/02	03/07/02	
cis-1,2-Dichloroethene	EPA 8260B	I2C0610	N/A	2.0	ND	1	03/06/02	03/07/02	
trans-1,2-Dichloroethene	EPA 8260B	I2C0610	N/A	2.0	ND	1	03/06/02	03/07/02	
1,2-Dichloropropane	EPA 8260B	I2C0610	N/A	2.0	ND	1	03/06/02	03/07/02	
1,3-Dichloropropane	EPA 8260B	I2C0610	N/A	2.0	ND	1	03/06/02	03/07/02	
2,2-Dichloropropane	EPA 8260B	I2C0610	N/A	2.0	ND	1	03/06/02	03/07/02	
1,1-Dichloropropene	EPA 8260B	I2C0610	N/A	2.0	ND	1	03/06/02	03/07/02	
cis-1,3-Dichloropropene	EPA 8260B	I2C0610	N/A	2.0	ND	1	03/06/02	03/07/02	
trans-1,3-Dichloropropene	EPA 8260B	I2C0610	N/A	2.0	ND	1	03/06/02	03/07/02	
Ethylbenzene	EPA 8260B	I2C0610	N/A	2.0	ND	1	03/06/02	03/07/02	
Hexachlorobutadiene	EPA 8260B	I2C0610	N/A	5.0	ND	1	03/06/02	03/07/02	
Isopropylbenzene	EPA 8260B	I2C0610	N/A	2.0	ND	1	03/06/02	03/07/02	
p-Isopropyltoluene	EPA 8260B	I2C0610	N/A	2.0	ND	1	03/06/02	03/07/02	
Methylene chloride	EPA 8260B	I2C0610	N/A	20	ND	1	03/06/02	03/07/02	
Naphthalene	EPA 8260B	I2C0610	N/A	5.0	ND	1	03/06/02	03/07/02	

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Environ-Irvine
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Irvine, CA 92614
Attention: Rebekah Wale

Project ID: Home Depot
Long Beach, 04-6889V
Report Number: ILC0222

Sampled: 03/01/02
Received: 03/06/02

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/kg	ug/kg	ug/kg				
Sample ID: ILC0222-07 (SB4-0-0.5 - Soil)									
n-Propylbenzene	EPA 8260B	I2C0610	N/A	2.0	ND	1	03/06/02	03/07/02	
Styrene	EPA 8260B	I2C0610	N/A	2.0	ND	1	03/06/02	03/07/02	
1,1,1,2-Tetrachloroethane	EPA 8260B	I2C0610	N/A	5.0	ND	1	03/06/02	03/07/02	
1,1,2,2-Tetrachloroethane	EPA 8260B	I2C0610	N/A	2.0	ND	1	03/06/02	03/07/02	
Tetrachloroethene	EPA 8260B	I2C0610	N/A	2.0	ND	1	03/06/02	03/07/02	
Toluene	EPA 8260B	I2C0610	N/A	2.0	ND	1	03/06/02	03/07/02	
1,2,3-Trichlorobenzene	EPA 8260B	I2C0610	N/A	5.0	ND	1	03/06/02	03/07/02	
1,2,4-Trichlorobenzene	EPA 8260B	I2C0610	N/A	5.0	ND	1	03/06/02	03/07/02	
1,1,1-Trichloroethane	EPA 8260B	I2C0610	N/A	2.0	ND	1	03/06/02	03/07/02	
1,1,2-Trichloroethane	EPA 8260B	I2C0610	N/A	2.0	ND	1	03/06/02	03/07/02	
Trichloroethene	EPA 8260B	I2C0610	N/A	2.0	ND	1	03/06/02	03/07/02	
Trichlorofluoromethane	EPA 8260B	I2C0610	N/A	5.0	ND	1	03/06/02	03/07/02	
1,2,3-Trichloropropane	EPA 8260B	I2C0610	N/A	10	ND	1	03/06/02	03/07/02	
1,2,4-Trimethylbenzene	EPA 8260B	I2C0610	N/A	2.0	ND	1	03/06/02	03/07/02	
1,3,5-Trimethylbenzene	EPA 8260B	I2C0610	N/A	2.0	ND	1	03/06/02	03/07/02	
Vinyl chloride	EPA 8260B	I2C0610	N/A	5.0	ND	1	03/06/02	03/07/02	
o-Xylene	EPA 8260B	I2C0610	N/A	2.0	ND	1	03/06/02	03/07/02	
m,p-Xylenes	EPA 8260B	I2C0610	N/A	2.0	ND	1	03/06/02	03/07/02	
Surrogate: Dibromofluoromethane (85-125%)					*102 %*				
Surrogate: Toluene-d8 (80-120%)					*103 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*100 %*				

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Project ID: Home Depot
Long Beach, 04-6889V
Report Number: ILC0222

Sampled: 03/01/02
Received: 03/06/02

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3545/8270C)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/kg	ug/kg	ug/kg				
Sample ID: ILC0222-07 (SB4-0-0.5 - Soil)									**RL-1**
Acenaphthene	EPA 8270C	I2C0670	1600	5000	ND	15	03/06/02	03/07/02	
Acenaphthylene	EPA 8270C	I2C0670	1800	5000	ND	15	03/06/02	03/07/02	
Aniline	EPA 8270C	I2C0670	1800	6300	ND	15	03/06/02	03/07/02	
Anthracene	EPA 8270C	I2C0670	2100	5000	ND	15	03/06/02	03/07/02	
Benzidine	EPA 8270C	I2C0670	2700	9900	ND	15	03/06/02	03/07/02	
Benzoic acid	EPA 8270C	I2C0670	940	12000	ND	15	03/06/02	03/07/02	
Benzo(a)anthracene	EPA 8270C	I2C0670	1800	5000	ND	15	03/06/02	03/07/02	
Benzo(b)fluoranthene	EPA 8270C	I2C0670	2000	5000	ND	15	03/06/02	03/07/02	
Benzo(k)fluoranthene	EPA 8270C	I2C0670	1900	5000	ND	15	03/06/02	03/07/02	
Benzo(g,h,i)perylene	EPA 8270C	I2C0670	2200	5000	ND	15	03/06/02	03/07/02	
Benzo(a)pyrene	EPA 8270C	I2C0670	1600	5000	ND	15	03/06/02	03/07/02	
Benzyl alcohol	EPA 8270C	I2C0670	3200	5000	ND	15	03/06/02	03/07/02	
Bis(2-chloroethoxy)methane	EPA 8270C	I2C0670	1600	5000	ND	15	03/06/02	03/07/02	
Bis(2-chloroethyl)ether	EPA 8270C	I2C0670	1700	2500	ND	15	03/06/02	03/07/02	
Bis(2-chloroisopropyl)ether	EPA 8270C	I2C0670	2100	5000	ND	15	03/06/02	03/07/02	
Bis(2-ethylhexyl)phthalate	EPA 8270C	I2C0670	2100	5000	ND	15	03/06/02	03/07/02	C
4-Bromophenyl phenyl ether	EPA 8270C	I2C0670	1900	5000	ND	15	03/06/02	03/07/02	
Butyl benzyl phthalate	EPA 8270C	I2C0670	2100	5000	ND	15	03/06/02	03/07/02	
4-Chloroaniline	EPA 8270C	I2C0670	1700	5000	ND	15	03/06/02	03/07/02	
2-Chloronaphthalene	EPA 8270C	I2C0670	1500	5000	ND	15	03/06/02	03/07/02	
4-Chloro-3-methylphenol	EPA 8270C	I2C0670	2200	5000	ND	15	03/06/02	03/07/02	
2-Chlorophenol	EPA 8270C	I2C0670	1500	5000	ND	15	03/06/02	03/07/02	
4-Chlorophenyl phenyl ether	EPA 8270C	I2C0670	1700	5000	ND	15	03/06/02	03/07/02	
Chrysene	EPA 8270C	I2C0670	2000	5000	ND	15	03/06/02	03/07/02	
Dibenz(a,h)anthracene	EPA 8270C	I2C0670	2000	6300	ND	15	03/06/02	03/07/02	
Dibenzofuran	EPA 8270C	I2C0670	1700	5000	ND	15	03/06/02	03/07/02	
Di-n-butyl phthalate	EPA 8270C	I2C0670	2000	5000	ND	15	03/06/02	03/07/02	
1,3-Dichlorobenzene	EPA 8270C	I2C0670	2200	5000	ND	15	03/06/02	03/07/02	
1,4-Dichlorobenzene	EPA 8270C	I2C0670	1800	5000	ND	15	03/06/02	03/07/02	
1,2-Dichlorobenzene	EPA 8270C	I2C0670	2000	5000	ND	15	03/06/02	03/07/02	
3,3-Dichlorobenzidine	EPA 8270C	I2C0670	1900	12000	ND	15	03/06/02	03/07/02	
2,4-Dichlorophenol	EPA 8270C	I2C0670	1400	5000	ND	15	03/06/02	03/07/02	
Diethyl phthalate	EPA 8270C	I2C0670	2000	5000	ND	15	03/06/02	03/07/02	
2,4-Dimethylphenol	EPA 8270C	I2C0670	3100	5000	ND	15	03/06/02	03/07/02	
Dimethyl phthalate	EPA 8270C	I2C0670	1800	5000	ND	15	03/06/02	03/07/02	
4,6-Dinitro-2-methylphenol	EPA 8270C	I2C0670	1200	6300	ND	15	03/06/02	03/07/02	
2,4-Dinitrophenol	EPA 8270C	I2C0670	880	6300	ND	15	03/06/02	03/07/02	
2,4-Dinitrotoluene	EPA 8270C	I2C0670	2000	5000	ND	15	03/06/02	03/07/02	
2,6-Dinitrotoluene	EPA 8270C	I2C0670	2000	5000	ND	15	03/06/02	03/07/02	
Di-n-octyl phthalate	EPA 8270C	I2C0670	2800	5000	ND	15	03/06/02	03/07/02	
Fluoranthene	EPA 8270C	I2C0670	2200	5000	ND	15	03/06/02	03/07/02	

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Attention: Rebekah Wale

Project ID: Home Depot
Long Beach, 04-6889V
Report Number: ILC0222

Sampled: 03/01/02
Received: 03/06/02

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3545/8270C)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/kg	ug/kg	ug/kg				
Sample ID: ILC0222-07 (SB4-0-0.5 - Soil)									**RL-1**
Fluorene	EPA 8270C	I2C0670	1800	5000	ND	15	03/06/02	03/07/02	
Hexachlorobenzene	EPA 8270C	I2C0670	1800	5000	ND	15	03/06/02	03/07/02	
Hexachlorobutadiene	EPA 8270C	I2C0670	1800	5000	ND	15	03/06/02	03/07/02	
Hexachlorocyclopentadiene	EPA 8270C	I2C0670	1600	12000	ND	15	03/06/02	03/07/02	
Hexachloroethane	EPA 8270C	I2C0670	1800	5000	ND	15	03/06/02	03/07/02	
Indeno(1,2,3-cd)pyrene	EPA 8270C	I2C0670	2100	5000	ND	15	03/06/02	03/07/02	
Isophorone	EPA 8270C	I2C0670	1800	5000	ND	15	03/06/02	03/07/02	
2-Methylnaphthalene	EPA 8270C	I2C0670	1700	5000	ND	15	03/06/02	03/07/02	
2-Methylphenol	EPA 8270C	I2C0670	1700	5000	ND	15	03/06/02	03/07/02	
4-Methylphenol	EPA 8270C	I2C0670	1700	5000	ND	15	03/06/02	03/07/02	
Naphthalene	EPA 8270C	I2C0670	1700	5000	ND	15	03/06/02	03/07/02	
2-Nitroaniline	EPA 8270C	I2C0670	1800	5000	ND	15	03/06/02	03/07/02	
3-Nitroaniline	EPA 8270C	I2C0670	980	5000	ND	15	03/06/02	03/07/02	
4-Nitroaniline	EPA 8270C	I2C0670	2600	12000	ND	15	03/06/02	03/07/02	
Nitrobenzene	EPA 8270C	I2C0670	2000	5000	ND	15	03/06/02	03/07/02	
2-Nitrophenol	EPA 8270C	I2C0670	1500	5000	ND	15	03/06/02	03/07/02	
4-Nitrophenol	EPA 8270C	I2C0670	1600	12000	ND	15	03/06/02	03/07/02	
n-Nitrosodiphenylamine	EPA 8270C	I2C0670	1600	5000	ND	15	03/06/02	03/07/02	
n-Nitroso-di-n-propylamine	EPA 8270C	I2C0670	2100	3800	ND	15	03/06/02	03/07/02	
Pentachlorophenol	EPA 8270C	I2C0670	1400	12000	ND	15	03/06/02	03/07/02	
Phenanthrene	EPA 8270C	I2C0670	2000	5000	ND	15	03/06/02	03/07/02	
Phenol	EPA 8270C	I2C0670	1600	5000	ND	15	03/06/02	03/07/02	
Pyrene	EPA 8270C	I2C0670	2600	5000	ND	15	03/06/02	03/07/02	
1,2,4-Trichlorobenzene	EPA 8270C	I2C0670	1800	5000	ND	15	03/06/02	03/07/02	
2,4,5-Trichlorophenol	EPA 8270C	I2C0670	1500	5000	ND	15	03/06/02	03/07/02	
2,4,6-Trichlorophenol	EPA 8270C	I2C0670	1600	5000	ND	15	03/06/02	03/07/02	
1,2-Diphenylhydrazine/Azobenzene	EPA 8270C	I2C0670	1700	5000	ND	15	03/06/02	03/07/02	
Surrogate: 2-Fluorophenol (25-110%)					*59 %*				
Surrogate: Phenol-d6 (30-110%)					*73 %*				
Surrogate: 2,4,6-Tribromophenol (45-130%)					*71 %*				
Surrogate: Nitrobenzene-d5 (30-110%)					*61 %*				
Surrogate: 2-Fluorobiphenyl (30-110%)					*73 %*				
Surrogate: Terphenyl-d14 (45-145%)					*98 %*				

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Environ-Irvine
2010 Main Street, 9th Floor
Irvine, CA 92614
Attention: Rebekah Wale

Project ID: Home Depot
Long Beach, 04-6889V
Report Number: ILC0222

Sampled: 03/01/02
Received: 03/06/02

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			mg/kg	mg/kg	mg/kg				
Sample ID: ILC0222-01 (SB10-0-0.5 - Soil)									
Antimony	EPA 6010B	I2C0868	N/A	10	ND	1	03/04/02	03/04/02	
Arsenic	EPA 6010B	I2C0868	N/A	2.0	**8.6**	1	03/04/02	03/04/02	
Barium	EPA 6010B	I2C0868	N/A	1.0	**170**	1	03/04/02	03/04/02	
Beryllium	EPA 6010B	I2C0868	N/A	0.50	ND	1	03/04/02	03/04/02	
Cadmium	EPA 6010B	I2C0868	N/A	0.50	ND	1	03/04/02	03/04/02	
Chromium	EPA 6010B	I2C0868	N/A	1.0	**21**	1	03/04/02	03/04/02	
Cobalt	EPA 6010B	I2C0868	N/A	1.0	**11**	1	03/04/02	03/04/02	
Copper	EPA 6010B	I2C0868	N/A	2.0	**23**	1	03/04/02	03/04/02	
Lead	EPA 6010B	I2C0868	N/A	2.0	**39**	1	03/04/02	03/04/02	
Mercury	EPA 7471A	I2C0746	N/A	0.020	**0.029**	1	03/07/02	03/07/02	
Molybdenum	EPA 6010B	I2C0868	N/A	2.0	ND	1	03/04/02	03/04/02	
Nickel	EPA 6010B	I2C0868	N/A	2.0	**18**	1	03/04/02	03/04/02	
Selenium	EPA 6010B	I2C0868	N/A	2.0	ND	1	03/04/02	03/04/02	
Silver	EPA 6010B	I2C0868	N/A	1.0	ND	1	03/04/02	03/04/02	
Thallium	EPA 6010B	I2C0868	N/A	10	ND	1	03/04/02	03/04/02	
Vanadium	EPA 6010B	I2C0868	N/A	1.0	**40**	1	03/04/02	03/04/02	
Zinc	EPA 6010B	I2C0868	N/A	5.0	**87**	1	03/04/02	03/04/02	
Sample ID: ILC0222-02 (SB10-1-1.5 - Soil)									
Antimony	EPA 6010B	I2C0868	N/A	10	ND	1	03/04/02	03/04/02	
Arsenic	EPA 6010B	I2C0868	N/A	2.0	**4.6**	1	03/04/02	03/04/02	
Barium	EPA 6010B	I2C0868	N/A	1.0	**130**	1	03/04/02	03/04/02	
Beryllium	EPA 6010B	I2C0868	N/A	0.50	ND	1	03/04/02	03/04/02	
Cadmium	EPA 6010B	I2C0868	N/A	0.50	**0.62**	1	03/04/02	03/04/02	
Chromium	EPA 6010B	I2C0868	N/A	1.0	**19**	1	03/04/02	03/04/02	
Cobalt	EPA 6010B	I2C0868	N/A	1.0	**6.7**	1	03/04/02	03/04/02	
Copper	EPA 6010B	I2C0868	N/A	2.0	**27**	1	03/04/02	03/04/02	
Lead	EPA 6010B	I2C0868	N/A	2.0	**33**	1	03/04/02	03/04/02	
Mercury	EPA 7471A	I2C0746	N/A	0.020	**0.049**	1	03/07/02	03/07/02	
Molybdenum	EPA 6010B	I2C0868	N/A	2.0	ND	1	03/04/02	03/04/02	
Nickel	EPA 6010B	I2C0868	N/A	2.0	**16**	1	03/04/02	03/04/02	
Selenium	EPA 6010B	I2C0868	N/A	2.0	ND	1	03/04/02	03/04/02	
Silver	EPA 6010B	I2C0868	N/A	1.0	ND	1	03/04/02	03/04/02	
Thallium	EPA 6010B	I2C0868	N/A	10	ND	1	03/04/02	03/04/02	
Vanadium	EPA 6010B	I2C0868	N/A	1.0	**25**	1	03/04/02	03/04/02	
Zinc	EPA 6010B	I2C0868	N/A	5.0	**92**	1	03/04/02	03/04/02	

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Environ-Irvine
2010 Main Street, 9th Floor
Irvine, CA 92614
Attention: Rebekah Wale

Project ID: Home Depot
Long Beach, 04-6889V
Report Number: ILC0222

Sampled: 03/01/02
Received: 03/06/02

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			mg/kg	mg/kg	mg/kg				
Sample ID: ILC0222-03 (SB10-5-5.5 - Soil)									
Antimony	EPA 6010B	I2C0868	N/A	10	ND	1	03/04/02	03/04/02	
Arsenic	EPA 6010B	I2C0868	N/A	2.0	**3.7**	1	03/04/02	03/04/02	
Barium	EPA 6010B	I2C0868	N/A	1.0	**110**	1	03/04/02	03/04/02	
Beryllium	EPA 6010B	I2C0868	N/A	0.50	ND	1	03/04/02	03/04/02	
Cadmium	EPA 6010B	I2C0868	N/A	0.50	ND	1	03/04/02	03/04/02	
Chromium	EPA 6010B	I2C0868	N/A	1.0	**14**	1	03/04/02	03/04/02	
Cobalt	EPA 6010B	I2C0868	N/A	1.0	**6.8**	1	03/04/02	03/04/02	
Copper	EPA 6010B	I2C0868	N/A	2.0	**16**	1	03/04/02	03/04/02	
Lead	EPA 6010B	I2C0868	N/A	2.0	**90**	1	03/04/02	03/04/02	
Mercury	EPA 7471A	I2C0746	N/A	0.020	**0.036**	1	03/07/02	03/07/02	
Molybdenum	EPA 6010B	I2C0868	N/A	2.0	ND	1	03/04/02	03/04/02	
Nickel	EPA 6010B	I2C0868	N/A	2.0	**10**	1	03/04/02	03/04/02	
Selenium	EPA 6010B	I2C0868	N/A	2.0	ND	1	03/04/02	03/04/02	
Silver	EPA 6010B	I2C0868	N/A	1.0	ND	1	03/04/02	03/04/02	
Thallium	EPA 6010B	I2C0868	N/A	10	ND	1	03/04/02	03/04/02	
Vanadium	EPA 6010B	I2C0868	N/A	1.0	**23**	1	03/04/02	03/04/02	
Zinc	EPA 6010B	I2C0868	N/A	5.0	**71**	1	03/04/02	03/04/02	
Sample ID: ILC0222-04 (SB3-0-0.5 - Soil)									
Antimony	EPA 6010B	I2C0868	N/A	10	ND	1	03/04/02	03/04/02	
Arsenic	EPA 6010B	I2C0868	N/A	2.0	**2.3**	1	03/04/02	03/04/02	
Barium	EPA 6010B	I2C0868	N/A	1.0	**74**	1	03/04/02	03/04/02	
Beryllium	EPA 6010B	I2C0868	N/A	0.50	ND	1	03/04/02	03/04/02	
Cadmium	EPA 6010B	I2C0868	N/A	0.50	ND	1	03/04/02	03/04/02	
Chromium	EPA 6010B	I2C0868	N/A	1.0	**11**	1	03/04/02	03/04/02	
Cobalt	EPA 6010B	I2C0868	N/A	1.0	**5.0**	1	03/04/02	03/04/02	
Copper	EPA 6010B	I2C0868	N/A	2.0	**8.0**	1	03/04/02	03/04/02	
Lead	EPA 6010B	I2C0868	N/A	2.0	**36**	1	03/04/02	03/04/02	
Mercury	EPA 7471A	I2C0746	N/A	0.020	**0.028**	1	03/07/02	03/07/02	
Molybdenum	EPA 6010B	I2C0868	N/A	2.0	ND	1	03/04/02	03/04/02	
Nickel	EPA 6010B	I2C0868	N/A	2.0	**7.6**	1	03/04/02	03/04/02	
Selenium	EPA 6010B	I2C0868	N/A	2.0	ND	1	03/04/02	03/04/02	
Silver	EPA 6010B	I2C0868	N/A	1.0	ND	1	03/04/02	03/04/02	
Thallium	EPA 6010B	I2C0868	N/A	10	ND	1	03/04/02	03/04/02	
Vanadium	EPA 6010B	I2C0868	N/A	1.0	**21**	1	03/04/02	03/04/02	
Zinc	EPA 6010B	I2C0868	N/A	5.0	**55**	1	03/04/02	03/04/02	

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Environ-Irvine
2010 Main Street, 9th Floor
Irvine, CA 92614
Attention: Rebekah Wale

Project ID: Home Depot
Long Beach, 04-6889V
Report Number: ILC0222

Sampled: 03/01/02
Received: 03/06/02

METALS

Analyte	Method	Batch	MDL Limit mg/kg	Reporting Limit mg/kg	Sample Result mg/kg	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ILC0222-05 (SB3-2-2.5 - Soil)									
Antimony	EPA 6010B	I2C0868	N/A	10	ND	1	03/04/02	03/04/02	
Arsenic	EPA 6010B	I2C0868	N/A	2.0	**3.5**	1	03/04/02	03/04/02	
Barium	EPA 6010B	I2C0868	N/A	1.0	**82**	1	03/04/02	03/04/02	
Beryllium	EPA 6010B	I2C0868	N/A	0.50	ND	1	03/04/02	03/04/02	
Cadmium	EPA 6010B	I2C0868	N/A	0.50	ND	1	03/04/02	03/04/02	
Chromium	EPA 6010B	I2C0868	N/A	1.0	**20**	1	03/04/02	03/04/02	
Cobalt	EPA 6010B	I2C0868	N/A	1.0	**7.4**	1	03/04/02	03/04/02	
Copper	EPA 6010B	I2C0868	N/A	2.0	**13**	1	03/04/02	03/04/02	
Lead	EPA 6010B	I2C0868	N/A	2.0	**35**	1	03/04/02	03/04/02	
Mercury	EPA 7471A	I2C0746	N/A	0.020	ND	1	03/07/02	03/07/02	
Molybdenum	EPA 6010B	I2C0868	N/A	2.0	ND	1	03/04/02	03/04/02	
Nickel	EPA 6010B	I2C0868	N/A	2.0	**12**	1	03/04/02	03/04/02	
Selenium	EPA 6010B	I2C0868	N/A	2.0	ND	1	03/04/02	03/04/02	
Silver	EPA 6010B	I2C0868	N/A	1.0	ND	1	03/04/02	03/04/02	
Thallium	EPA 6010B	I2C0868	N/A	10	ND	1	03/04/02	03/04/02	
Vanadium	EPA 6010B	I2C0868	N/A	1.0	**32**	1	03/04/02	03/04/02	
Zinc	EPA 6010B	I2C0868	N/A	5.0	**78**	1	03/04/02	03/04/02	
Sample ID: ILC0222-06 (SB3-4-4.5 - Soil)									
Antimony	EPA 6010B	I2C0868	N/A	10	ND	1	03/04/02	03/04/02	M2
Arsenic	EPA 6010B	I2C0868	N/A	2.0	**3.2**	1	03/04/02	03/04/02	
Barium	EPA 6010B	I2C0868	N/A	1.0	**77**	1	03/04/02	03/04/02	
Beryllium	EPA 6010B	I2C0868	N/A	0.50	ND	1	03/04/02	03/04/02	
Cadmium	EPA 6010B	I2C0868	N/A	0.50	ND	1	03/04/02	03/04/02	
Chromium	EPA 6010B	I2C0868	N/A	1.0	**21**	1	03/04/02	03/04/02	
Cobalt	EPA 6010B	I2C0868	N/A	1.0	**5.7**	1	03/04/02	03/04/02	
Copper	EPA 6010B	I2C0868	N/A	2.0	**15**	1	03/04/02	03/04/02	
Lead	EPA 6010B	I2C0868	N/A	2.0	**45**	1	03/04/02	03/04/02	
Mercury	EPA 7471A	I2C0746	N/A	0.020	**0.023**	1	03/07/02	03/07/02	
Molybdenum	EPA 6010B	I2C0868	N/A	2.0	ND	1	03/04/02	03/04/02	
Nickel	EPA 6010B	I2C0868	N/A	2.0	**14**	1	03/04/02	03/04/02	
Selenium	EPA 6010B	I2C0868	N/A	2.0	ND	1	03/04/02	03/04/02	
Silver	EPA 6010B	I2C0868	N/A	1.0	ND	1	03/04/02	03/04/02	
Thallium	EPA 6010B	I2C0868	N/A	10	ND	1	03/04/02	03/04/02	
Vanadium	EPA 6010B	I2C0868	N/A	1.0	**27**	1	03/04/02	03/04/02	
Zinc	EPA 6010B	I2C0868	N/A	5.0	**130**	1	03/04/02	03/04/02	

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Environ-Irvine
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Irvine, CA 92614
Attention: Rebekah Wale

Project ID: Home Depot
Long Beach, 04-6889V
Report Number: ILC0222

Sampled: 03/01/02
Received: 03/06/02

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			mg/kg	mg/kg	mg/kg				
Sample ID: ILC0222-07 (SB4-0-0.5 - Soil)									
Antimony	EPA 6010B	I2C0868	N/A	20	ND	2	03/04/02	03/05/02	RL-3
Arsenic	EPA 6010B	I2C0868	N/A	4.0	**8.0**	2	03/04/02	03/05/02	RL-3
Barium	EPA 6010B	I2C0868	N/A	2.0	**160**	2	03/04/02	03/05/02	RL-3
Beryllium	EPA 6010B	I2C0868	N/A	1.0	ND	2	03/04/02	03/05/02	RL-3
Cadmium	EPA 6010B	I2C0868	N/A	1.0	**1.4**	2	03/04/02	03/05/02	RL-3
Chromium	EPA 6010B	I2C0868	N/A	2.0	**16**	2	03/04/02	03/05/02	RL-3
Cobalt	EPA 6010B	I2C0868	N/A	2.0	**6.9**	2	03/04/02	03/05/02	RL-3
Copper	EPA 6010B	I2C0868	N/A	4.0	**34**	2	03/04/02	03/05/02	RL-3
Lead	EPA 6010B	I2C0868	N/A	4.0	**290**	2	03/04/02	03/05/02	RL-3
Mercury	EPA 7471A	I2C0746	N/A	0.020	**0.061**	1	03/07/02	03/07/02	
Molybdenum	EPA 6010B	I2C0868	N/A	4.0	ND	2	03/04/02	03/05/02	RL-3
Nickel	EPA 6010B	I2C0868	N/A	4.0	**15**	2	03/04/02	03/05/02	RL-3
Selenium	EPA 6010B	I2C0868	N/A	4.0	ND	2	03/04/02	03/05/02	RL-3
Silver	EPA 6010B	I2C0868	N/A	2.0	ND	2	03/04/02	03/05/02	RL-3
Thallium	EPA 6010B	I2C0868	N/A	20	ND	2	03/04/02	03/05/02	RL-3
Vanadium	EPA 6010B	I2C0868	N/A	2.0	**24**	2	03/04/02	03/05/02	RL-3
Zinc	EPA 6010B	I2C0868	N/A	10	**190**	2	03/04/02	03/05/02	RL-3
Sample ID: ILC0222-08 (SB5-0-0.5 - Soil)									
Antimony	EPA 6010B	I2C0868	N/A	10	ND	1	03/04/02	03/04/02	
Arsenic	EPA 6010B	I2C0868	N/A	2.0	**2.7**	1	03/04/02	03/04/02	
Barium	EPA 6010B	I2C0868	N/A	1.0	**82**	1	03/04/02	03/04/02	
Beryllium	EPA 6010B	I2C0868	N/A	0.50	ND	1	03/04/02	03/04/02	
Cadmium	EPA 6010B	I2C0868	N/A	0.50	ND	1	03/04/02	03/04/02	
Chromium	EPA 6010B	I2C0868	N/A	1.0	**12**	1	03/04/02	03/04/02	
Cobalt	EPA 6010B	I2C0868	N/A	1.0	**4.7**	1	03/04/02	03/04/02	
Copper	EPA 6010B	I2C0868	N/A	2.0	**16**	1	03/04/02	03/04/02	
Lead	EPA 6010B	I2C0868	N/A	2.0	**170**	1	03/04/02	03/04/02	
Mercury	EPA 7471A	I2C0746	N/A	0.020	**0.032**	1	03/07/02	03/07/02	
Molybdenum	EPA 6010B	I2C0868	N/A	2.0	ND	1	03/04/02	03/04/02	
Nickel	EPA 6010B	I2C0868	N/A	2.0	**9.6**	1	03/04/02	03/04/02	
Selenium	EPA 6010B	I2C0868	N/A	2.0	ND	1	03/04/02	03/04/02	
Silver	EPA 6010B	I2C0868	N/A	1.0	ND	1	03/04/02	03/04/02	
Thallium	EPA 6010B	I2C0868	N/A	10	ND	1	03/04/02	03/04/02	
Vanadium	EPA 6010B	I2C0868	N/A	1.0	**19**	1	03/04/02	03/04/02	
Zinc	EPA 6010B	I2C0868	N/A	5.0	**150**	1	03/04/02	03/04/02	

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Project ID: Home Depot
Long Beach, 04-6889V
Report Number: ILC0222

Sampled: 03/01/02
Received: 03/06/02

METALS

Analyte	Method	Batch	MDL Limit mg/kg	Reporting Limit mg/kg	Sample Result mg/kg	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ILC0222-09 (SB7-0-0.5 - Soil)									
Antimony	EPA 6010B	I2C0882	N/A	10	ND	1	03/04/02	03/04/02	
Arsenic	EPA 6010B	I2C0882	N/A	2.0	**2.6**	1	03/04/02	03/04/02	
Barium	EPA 6010B	I2C0882	N/A	1.0	**120**	1	03/04/02	03/04/02	
Beryllium	EPA 6010B	I2C0882	N/A	0.50	ND	1	03/04/02	03/04/02	
Cadmium	EPA 6010B	I2C0882	N/A	0.50	ND	1	03/04/02	03/04/02	
Chromium	EPA 6010B	I2C0882	N/A	1.0	**13**	1	03/04/02	03/04/02	
Cobalt	EPA 6010B	I2C0882	N/A	1.0	**5.7**	1	03/04/02	03/04/02	
Copper	EPA 6010B	I2C0882	N/A	2.0	**12**	1	03/04/02	03/04/02	
Lead	EPA 6010B	I2C0882	N/A	2.0	**73**	1	03/04/02	03/04/02	
Mercury	EPA 7471A	I2C0746	N/A	0.020	**0.058**	1	03/07/02	03/07/02	
Molybdenum	EPA 6010B	I2C0882	N/A	2.0	ND	1	03/04/02	03/04/02	
Nickel	EPA 6010B	I2C0882	N/A	2.0	**10**	1	03/04/02	03/04/02	
Selenium	EPA 6010B	I2C0882	N/A	2.0	ND	1	03/04/02	03/04/02	
Silver	EPA 6010B	I2C0882	N/A	1.0	ND	1	03/04/02	03/04/02	
Thallium	EPA 6010B	I2C0882	N/A	10	ND	1	03/04/02	03/04/02	
Vanadium	EPA 6010B	I2C0882	N/A	1.0	**22**	1	03/04/02	03/04/02	
Zinc	EPA 6010B	I2C0882	N/A	5.0	**110**	1	03/04/02	03/04/02	
Sample ID: ILC0222-10 (SB8-0-0.5 - Soil)									
Antimony	EPA 6010B	I2C0882	N/A	10	ND	1	03/04/02	03/04/02	
Arsenic	EPA 6010B	I2C0882	N/A	2.0	**2.6**	1	03/04/02	03/04/02	
Barium	EPA 6010B	I2C0882	N/A	1.0	**110**	1	03/04/02	03/04/02	
Beryllium	EPA 6010B	I2C0882	N/A	0.50	ND	1	03/04/02	03/04/02	
Cadmium	EPA 6010B	I2C0882	N/A	0.50	ND	1	03/04/02	03/04/02	
Chromium	EPA 6010B	I2C0882	N/A	1.0	**14**	1	03/04/02	03/04/02	
Cobalt	EPA 6010B	I2C0882	N/A	1.0	**6.0**	1	03/04/02	03/04/02	
Copper	EPA 6010B	I2C0882	N/A	2.0	**12**	1	03/04/02	03/04/02	
Lead	EPA 6010B	I2C0882	N/A	2.0	**73**	1	03/04/02	03/04/02	
Mercury	EPA 7471A	I2C0746	N/A	0.020	**0.071**	1	03/07/02	03/07/02	
Molybdenum	EPA 6010B	I2C0882	N/A	2.0	ND	1	03/04/02	03/04/02	
Nickel	EPA 6010B	I2C0882	N/A	2.0	**10**	1	03/04/02	03/04/02	
Selenium	EPA 6010B	I2C0882	N/A	2.0	ND	1	03/04/02	03/04/02	
Silver	EPA 6010B	I2C0882	N/A	1.0	ND	1	03/04/02	03/04/02	
Thallium	EPA 6010B	I2C0882	N/A	10	ND	1	03/04/02	03/04/02	
Vanadium	EPA 6010B	I2C0882	N/A	1.0	**24**	1	03/04/02	03/04/02	
Zinc	EPA 6010B	I2C0882	N/A	5.0	**110**	1	03/04/02	03/04/02	

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2010 Main Street, 9th Floor
Irvine, CA 92614
Attention: Rebekah Wale

Project ID: Home Depot
Long Beach, 04-6889V
Report Number: ILC0222

Sampled: 03/01/02
Received: 03/06/02

STLC METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			mg/l	mg/l	mg/l				
Sample ID: ILC0222-03 (SB10-5-5.5 - Soil)									
Lead	6010B-STLC	I2C0889	N/A	0.10	**0.47**	1	03/08/02	03/10/02	
Sample ID: ILC0222-07 (SB4-0-0.5 - Soil)									
Lead	6010B-STLC	I2C0889	N/A	0.10	**9.1**	1	03/08/02	03/09/02	
Sample ID: ILC0222-08 (SB5-0-0.5 - Soil)									
Lead	6010B-STLC	I2C0889	N/A	0.10	**6.9**	1	03/08/02	03/09/02	
Sample ID: ILC0222-09 (SB7-0-0.5 - Soil)									
Lead	6010B-STLC	I2C0889	N/A	0.10	**0.38**	1	03/08/02	03/10/02	
Sample ID: ILC0222-10 (SB8-0-0.5 - Soil)									
Lead	6010B-STLC	I2C0889	N/A	0.10	**4.1**	1	03/08/02	03/09/02	

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WASTE EXTRACTION TEST (STLC) - Metals/Inorganics

Analyte	Method	Batch	Extraction Start Date	Extraction End Date	Data Qualifiers
Sample ID: ILC0222-03 (SB10-5-5.5 - Soil)					
Extraction	STLC-Met	I2C0658	3/6/2002	3/8/2002	
Sample ID: ILC0222-07 (SB4-0-0.5 - Soil)					
Extraction	STLC-Met	I2C0658	3/6/2002	3/8/2002	
Sample ID: ILC0222-08 (SB5-0-0.5 - Soil)					
Extraction	STLC-Met	I2C0658	3/6/2002	3/8/2002	
Sample ID: ILC0222-09 (SB7-0-0.5 - Soil)					
Extraction	STLC-Met	I2C0658	3/6/2002	3/8/2002	
Sample ID: ILC0222-10 (SB8-0-0.5 - Soil)					
Extraction	STLC-Met	I2C0658	3/6/2002	3/8/2002	

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Sampled: 03/01/02
Received: 03/06/02

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2C0610 Extracted: 03/06/02											
Blank Analyzed: 03/06/02 (I2C0610-BLK1)											
Benzene	ND	2.0	N/A	ug/kg							
Bromobenzene	ND	5.0	N/A	ug/kg							
Bromochloromethane	ND	5.0	N/A	ug/kg							
Bromodichloromethane	ND	2.0	N/A	ug/kg							
Bromoform	ND	5.0	N/A	ug/kg							
Bromomethane	ND	5.0	N/A	ug/kg							
n-Butylbenzene	ND	5.0	N/A	ug/kg							
sec-Butylbenzene	ND	5.0	N/A	ug/kg							
tert-Butylbenzene	ND	5.0	N/A	ug/kg							
Carbon tetrachloride	ND	5.0	N/A	ug/kg							
Chlorobenzene	ND	2.0	N/A	ug/kg							
Chloroethane	ND	5.0	N/A	ug/kg							
Chloroform	ND	2.0	N/A	ug/kg							
Chloromethane	ND	5.0	N/A	ug/kg							
2-Chlorotoluene	ND	5.0	N/A	ug/kg							
4-Chlorotoluene	ND	5.0	N/A	ug/kg							
Dibromochloromethane	ND	2.0	N/A	ug/kg							
1,2-Dibromo-3-chloropropane	ND	5.0	N/A	ug/kg							
1,2-Dibromoethane (EDB)	ND	2.0	N/A	ug/kg							
Dibromomethane	ND	2.0	N/A	ug/kg							
1,2-Dichlorobenzene	ND	2.0	N/A	ug/kg							
1,3-Dichlorobenzene	ND	2.0	N/A	ug/kg							
1,4-Dichlorobenzene	ND	2.0	N/A	ug/kg							
Dichlorodifluoromethane	ND	5.0	N/A	ug/kg							
1,1-Dichloroethane	ND	2.0	N/A	ug/kg							
1,2-Dichloroethane	ND	2.0	N/A	ug/kg							
1,1-Dichloroethene	ND	5.0	N/A	ug/kg							
cis-1,2-Dichloroethene	ND	2.0	N/A	ug/kg							
trans-1,2-Dichloroethene	ND	2.0	N/A	ug/kg							
1,2-Dichloropropane	ND	2.0	N/A	ug/kg							
1,3-Dichloropropane	ND	2.0	N/A	ug/kg							
2,2-Dichloropropane	ND	2.0	N/A	ug/kg							
1,1-Dichloropropene	ND	2.0	N/A	ug/kg							
cis-1,3-Dichloropropene	ND	2.0	N/A	ug/kg							
trans-1,3-Dichloropropene	ND	2.0	N/A	ug/kg							
Ethylbenzene	ND	2.0	N/A	ug/kg							

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2C0610 Extracted: 03/06/02											
Blank Analyzed: 03/06/02 (I2C0610-BLK1)											
Hexachlorobutadiene	ND	5.0	N/A	ug/kg							
Isopropylbenzene	ND	2.0	N/A	ug/kg							
p-Isopropyltoluene	ND	2.0	N/A	ug/kg							
Methylene chloride	ND	20	N/A	ug/kg							
Naphthalene	ND	5.0	N/A	ug/kg							
n-Propylbenzene	ND	2.0	N/A	ug/kg							
Styrene	ND	2.0	N/A	ug/kg							
1,1,1,2-Tetrachloroethane	ND	5.0	N/A	ug/kg							
1,1,2,2-Tetrachloroethane	ND	2.0	N/A	ug/kg							
Tetrachloroethene	ND	2.0	N/A	ug/kg							
Toluene	ND	2.0	N/A	ug/kg							
1,2,3-Trichlorobenzene	ND	5.0	N/A	ug/kg							
1,2,4-Trichlorobenzene	ND	5.0	N/A	ug/kg							
1,1,1-Trichloroethane	ND	2.0	N/A	ug/kg							
1,1,2-Trichloroethane	ND	2.0	N/A	ug/kg							
Trichloroethene	ND	2.0	N/A	ug/kg							
Trichlorofluoromethane	ND	5.0	N/A	ug/kg							
1,2,3-Trichloropropane	ND	10	N/A	ug/kg							
1,2,4-Trimethylbenzene	ND	2.0	N/A	ug/kg							
1,3,5-Trimethylbenzene	ND	2.0	N/A	ug/kg							
Vinyl chloride	ND	5.0	N/A	ug/kg							
o-Xylene	ND	2.0	N/A	ug/kg							
m,p-Xylenes	ND	2.0	N/A	ug/kg							
Surrogate: Dibromofluoromethane	*52.0*		N/A	*ug/kg*	*50.0*		*104*	*85-125*			
Surrogate: Toluene-d8	*51.8*		N/A	*ug/kg*	*50.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*50.7*		N/A	*ug/kg*	*50.0*		*101*	*80-120*			
LCS Analyzed: 03/06/02 (I2C0610-BS1)											
Benzene	47.6	2.0	N/A	ug/kg	50.0		95	75-130			
Bromobenzene	48.2	5.0	N/A	ug/kg	50.0		96	75-130			
Bromochloromethane	50.8	5.0	N/A	ug/kg	50.0		102	70-140			
Bromodichloromethane	49.9	2.0	N/A	ug/kg	50.0		100	75-135			
Bromoform	44.8	5.0	N/A	ug/kg	50.0		90	55-150			
Bromomethane	48.9	5.0	N/A	ug/kg	50.0		98	65-140			
n-Butylbenzene	47.5	5.0	N/A	ug/kg	50.0		95	75-130			
sec-Butylbenzene	46.2	5.0	N/A	ug/kg	50.0		92	80-135			
tert-Butylbenzene	48.4	5.0	N/A	ug/kg	50.0		97	75-130			

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Project ID: Home Depot
Long Beach, 04-6889V
Report Number: ILC0222

Sampled: 03/01/02
Received: 03/06/02

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2C0610 Extracted: 03/06/02											
LCS Analyzed: 03/06/02 (I2C0610-BS1)											
Carbon tetrachloride	50.7	5.0	N/A	ug/kg	50.0		101	70-160			
Chlorobenzene	47.0	2.0	N/A	ug/kg	50.0		94	75-130			
Chloroethane	50.2	5.0	N/A	ug/kg	50.0		100	65-135			
Chloroform	49.6	2.0	N/A	ug/kg	50.0		99	75-130			
Chloromethane	42.6	5.0	N/A	ug/kg	50.0		85	45-130			
2-Chlorotoluene	47.2	5.0	N/A	ug/kg	50.0		94	75-130			
4-Chlorotoluene	48.3	5.0	N/A	ug/kg	50.0		97	80-130			
Dibromochloromethane	50.0	2.0	N/A	ug/kg	50.0		100	70-140			
1,2-Dibromo-3-chloropropane	44.0	5.0	N/A	ug/kg	50.0		88	50-145			
1,2-Dibromoethane (EDB)	49.7	2.0	N/A	ug/kg	50.0		99	60-145			
Dibromomethane	50.8	2.0	N/A	ug/kg	50.0		102	65-135			
1,2-Dichlorobenzene	47.7	2.0	N/A	ug/kg	50.0		95	75-130			
1,3-Dichlorobenzene	46.8	2.0	N/A	ug/kg	50.0		94	75-130			
1,4-Dichlorobenzene	47.4	2.0	N/A	ug/kg	50.0		95	80-125			
Dichlorodifluoromethane	35.4	5.0	N/A	ug/kg	50.0		71	10-140			
1,1-Dichloroethane	49.0	2.0	N/A	ug/kg	50.0		98	75-135			
1,2-Dichloroethane	50.4	2.0	N/A	ug/kg	50.0		101	65-140			
1,1-Dichloroethene	50.0	5.0	N/A	ug/kg	50.0		100	70-145			
cis-1,2-Dichloroethene	47.2	2.0	N/A	ug/kg	50.0		94	70-130			
trans-1,2-Dichloroethene	48.8	2.0	N/A	ug/kg	50.0		98	75-140			
1,2-Dichloropropane	47.2	2.0	N/A	ug/kg	50.0		94	75-130			
1,3-Dichloropropane	49.2	2.0	N/A	ug/kg	50.0		98	65-140			
2,2-Dichloropropane	53.2	2.0	N/A	ug/kg	50.0		106	75-150			
1,1-Dichloropropene	49.1	2.0	N/A	ug/kg	50.0		98	75-140			
cis-1,3-Dichloropropene	49.2	2.0	N/A	ug/kg	50.0		98	65-135			
trans-1,3-Dichloropropene	49.8	2.0	N/A	ug/kg	50.0		100	65-140			
Ethylbenzene	48.9	2.0	N/A	ug/kg	50.0		98	75-135			
Hexachlorobutadiene	48.3	5.0	N/A	ug/kg	50.0		97	75-150			
Isopropylbenzene	47.4	2.0	N/A	ug/kg	50.0		95	80-135			
p-Isopropyltoluene	46.4	2.0	N/A	ug/kg	50.0		93	75-130			
Methylene chloride	44.6	20	N/A	ug/kg	50.0		89	70-125			
Naphthalene	49.3	5.0	N/A	ug/kg	50.0		99	50-145			
n-Propylbenzene	47.9	2.0	N/A	ug/kg	50.0		96	80-135			
Styrene	50.4	2.0	N/A	ug/kg	50.0		101	75-140			
1,1,1,2-Tetrachloroethane	49.3	5.0	N/A	ug/kg	50.0		99	75-135			
1,1,2,2-Tetrachloroethane	50.3	2.0	N/A	ug/kg	50.0		101	70-135			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2C0610 Extracted: 03/06/02											
LCS Analyzed: 03/06/02 (I2C0610-BS1)											
Tetrachloroethene	48.7	2.0	N/A	ug/kg	50.0		97	75-130			
Toluene	48.2	2.0	N/A	ug/kg	50.0		96	75-130			
1,2,3-Trichlorobenzene	48.3	5.0	N/A	ug/kg	50.0		97	50-140			
1,2,4-Trichlorobenzene	48.7	5.0	N/A	ug/kg	50.0		97	70-130			
1,1,1-Trichloroethane	50.0	2.0	N/A	ug/kg	50.0		100	75-140			
1,1,2-Trichloroethane	47.8	2.0	N/A	ug/kg	50.0		96	65-130			
Trichloroethene	49.6	2.0	N/A	ug/kg	50.0		99	75-130			
Trichlorofluoromethane	43.3	5.0	N/A	ug/kg	50.0		87	55-145			
1,2,3-Trichloropropane	49.3	10	N/A	ug/kg	50.0		99	60-140			
1,2,4-Trimethylbenzene	49.1	2.0	N/A	ug/kg	50.0		98	80-130			
1,3,5-Trimethylbenzene	48.5	2.0	N/A	ug/kg	50.0		97	80-135			
Vinyl chloride	47.9	5.0	N/A	ug/kg	50.0		96	45-140			
o-Xylene	45.9	2.0	N/A	ug/kg	50.0		92	75-130			
m,p-Xylenes	95.8	2.0	N/A	ug/kg	100		96	75-135			
Surrogate: Dibromofluoromethane	*51.9*		N/A	*ug/kg*	*50.0*		*104*	*85-125*			
Surrogate: Toluene-d8	*51.9*		N/A	*ug/kg*	*50.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*51.0*		N/A	*ug/kg*	*50.0*		*102*	*80-120*			
Matrix Spike Analyzed: 03/06/02 (I2C0610-MS1)						**Source: ILC0089-01**					
Benzene	47.4	2.0	N/A	ug/kg	50.0	ND	95	45-140			
Bromodichloromethane	47.3	2.0	N/A	ug/kg	50.0	ND	95	75-140			
Bromoform	39.9	5.0	N/A	ug/kg	50.0	ND	80	55-150			
Chlorobenzene	47.2	2.0	N/A	ug/kg	50.0	ND	94	75-135			
Chloroform	48.0	2.0	N/A	ug/kg	50.0	ND	96	75-140			
Dibromochloromethane	46.9	2.0	N/A	ug/kg	50.0	ND	94	70-140			
1,4-Dichlorobenzene	46.7	2.0	N/A	ug/kg	50.0	ND	93	80-145			
1,1-Dichloroethane	47.8	2.0	N/A	ug/kg	50.0	ND	96	70-150			
1,2-Dichloroethane	47.1	2.0	N/A	ug/kg	50.0	ND	94	65-145			
1,1-Dichloroethene	48.9	5.0	N/A	ug/kg	50.0	ND	98	70-165			
Ethylbenzene	49.9	2.0	N/A	ug/kg	50.0	ND	100	55-140			
Naphthalene	42.1	5.0	N/A	ug/kg	50.0	ND	84	65-175			
Tetrachloroethene	49.5	2.0	N/A	ug/kg	50.0	ND	99	75-200			
Toluene	48.3	2.0	N/A	ug/kg	50.0	ND	97	50-140			
Trichloroethene	49.5	2.0	N/A	ug/kg	50.0	ND	99	75-145			
Vinyl chloride	46.9	5.0	N/A	ug/kg	50.0	ND	94	45-160			
o-Xylene	46.3	2.0	N/A	ug/kg	50.0	ND	93	75-150			
m,p-Xylenes	95.7	2.0	N/A	ug/kg	100	ND	96	55-160			

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Environ-Irvine
2010 Main Street, 9th Floor
Irvine, CA 92614
Attention: Rebekah Wale

Project ID: Home Depot
Long Beach, 04-6889V
Report Number: ILC0222

Sampled: 03/01/02
Received: 03/06/02

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2C0610 Extracted: 03/06/02											
Matrix Spike Analyzed: 03/06/02 (I2C0610-MS1)						**Source: ILC0089-01**					
Surrogate: Dibromofluoromethane	*49.9*		N/A	*ug/kg*	*50.0*		*100*	*85-125*			
Surrogate: Toluene-d8	*52.3*		N/A	*ug/kg*	*50.0*		*105*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*49.1*		N/A	*ug/kg*	*50.0*		*98*	*80-120*			
Matrix Spike Dup Analyzed: 03/06/02 (I2C0610-MSD1)						**Source: ILC0089-01**					
Benzene	49.3	2.0	N/A	ug/kg	50.0	ND	99	45-140	4	20	
Bromodichloromethane	49.6	2.0	N/A	ug/kg	50.0	ND	99	75-140	5	20	
Bromoform	42.5	5.0	N/A	ug/kg	50.0	ND	85	55-150	6	40	
Chlorobenzene	47.7	2.0	N/A	ug/kg	50.0	ND	95	75-135	1	20	
Chloroform	49.0	2.0	N/A	ug/kg	50.0	ND	98	75-140	2	20	
Dibromochloromethane	48.6	2.0	N/A	ug/kg	50.0	ND	97	70-140	4	25	
1,4-Dichlorobenzene	47.8	2.0	N/A	ug/kg	50.0	ND	96	80-145	2	25	
1,1-Dichloroethane	49.3	2.0	N/A	ug/kg	50.0	ND	99	70-150	3	20	
1,2-Dichloroethane	48.2	2.0	N/A	ug/kg	50.0	ND	96	65-145	2	25	
1,1-Dichloroethene	51.3	5.0	N/A	ug/kg	50.0	ND	103	70-165	5	20	
Ethylbenzene	50.4	2.0	N/A	ug/kg	50.0	ND	101	55-140	1	20	
Naphthalene	47.3	5.0	N/A	ug/kg	50.0	ND	95	65-175	12	40	
Tetrachloroethene	50.4	2.0	N/A	ug/kg	50.0	ND	101	75-200	2	25	
Toluene	49.7	2.0	N/A	ug/kg	50.0	ND	99	50-140	3	20	
Trichloroethene	50.1	2.0	N/A	ug/kg	50.0	ND	100	75-145	1	20	
Vinyl chloride	48.8	5.0	N/A	ug/kg	50.0	ND	98	45-160	4	30	
o-Xylene	47.7	2.0	N/A	ug/kg	50.0	ND	95	75-150	3	20	
m,p-Xylenes	98.0	2.0	N/A	ug/kg	100	ND	98	55-160	2	20	
Surrogate: Dibromofluoromethane	*49.9*		N/A	*ug/kg*	*50.0*		*100*	*85-125*			
Surrogate: Toluene-d8	*52.4*		N/A	*ug/kg*	*50.0*		*105*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*50.1*		N/A	*ug/kg*	*50.0*		*100*	*80-120*			

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Long Beach, 04-6889V
Report Number: ILC0222

Sampled: 03/01/02
Received: 03/06/02

METHOD BLANK/QC DATA

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3545/8270C)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2C0670 Extracted: 03/06/02											
Blank Analyzed: 03/06/02 (I2C0670-BLK2)											
Acenaphthene	ND	330	110	ug/kg							
Acenaphthylene	ND	330	120	ug/kg							
Aniline	ND	420	120	ug/kg							
Anthracene	ND	330	140	ug/kg							
Benzidine	ND	660	180	ug/kg							
Benzoic acid	ND	830	63	ug/kg							
Benzo(a)anthracene	ND	330	120	ug/kg							
Benzo(b)fluoranthene	ND	330	140	ug/kg							
Benzo(k)fluoranthene	ND	330	130	ug/kg							
Benzo(g,h,i)perylene	ND	330	150	ug/kg							
Benzo(a)pyrene	ND	330	110	ug/kg							
Benzyl alcohol	ND	330	210	ug/kg							
Bis(2-chloroethoxy)methane	ND	330	100	ug/kg							
Bis(2-chloroethyl)ether	ND	170	120	ug/kg							
Bis(2-chloroisopropyl)ether	ND	330	140	ug/kg							
Bis(2-ethylhexyl)phthalate	ND	330	140	ug/kg							
4-Bromophenyl phenyl ether	ND	330	120	ug/kg							
Butyl benzyl phthalate	ND	330	140	ug/kg							
4-Chloroaniline	ND	330	110	ug/kg							
2-Chloronaphthalene	ND	330	99	ug/kg							
4-Chloro-3-methylphenol	ND	330	150	ug/kg							
2-Chlorophenol	ND	330	99	ug/kg							
4-Chlorophenyl phenyl ether	ND	330	110	ug/kg							
Chrysene	ND	330	130	ug/kg							
Dibenz(a,h)anthracene	ND	420	140	ug/kg							
Dibenzofuran	ND	330	110	ug/kg							
Di-n-butyl phthalate	ND	330	130	ug/kg							
1,3-Dichlorobenzene	ND	330	150	ug/kg							
1,4-Dichlorobenzene	ND	330	120	ug/kg							
1,2-Dichlorobenzene	ND	330	130	ug/kg							
3,3-Dichlorobenzidine	ND	830	120	ug/kg							
2,4-Dichlorophenol	ND	330	93	ug/kg							
Diethyl phthalate	ND	330	130	ug/kg							
2,4-Dimethylphenol	ND	330	200	ug/kg							
Dimethyl phthalate	ND	330	120	ug/kg							
4,6-Dinitro-2-methylphenol	ND	420	79	ug/kg							

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SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3545/8270C)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2C0670 Extracted: 03/06/02											
Blank Analyzed: 03/06/02 (I2C0670-BLK2)											
2,4-Dinitrophenol	ND	420	59	ug/kg							
2,4-Dinitrotoluene	ND	330	130	ug/kg							
2,6-Dinitrotoluene	ND	330	130	ug/kg							
Di-n-octyl phthalate	ND	330	180	ug/kg							
Fluoranthene	ND	330	150	ug/kg							
Fluorene	ND	330	120	ug/kg							
Hexachlorobenzene	ND	330	120	ug/kg							
Hexachlorobutadiene	ND	330	120	ug/kg							
Hexachlorocyclopentadiene	ND	830	110	ug/kg							
Hexachloroethane	ND	330	120	ug/kg							
Indeno(1,2,3-cd)pyrene	ND	330	140	ug/kg							
Isophorone	ND	330	120	ug/kg							
2-Methylnaphthalene	ND	330	110	ug/kg							
2-Methylphenol	ND	330	120	ug/kg							
4-Methylphenol	ND	330	110	ug/kg							
Naphthalene	ND	330	120	ug/kg							
2-Nitroaniline	ND	330	120	ug/kg							
3-Nitroaniline	ND	330	65	ug/kg							
4-Nitroaniline	ND	830	170	ug/kg							
Nitrobenzene	ND	330	130	ug/kg							
2-Nitrophenol	ND	330	100	ug/kg							
4-Nitrophenol	ND	830	110	ug/kg							
n-Nitrosodiphenylamine	ND	330	100	ug/kg							
n-Nitroso-di-n-propylamine	ND	250	140	ug/kg							
Pentachlorophenol	ND	830	95	ug/kg							
Phenanthrene	ND	330	130	ug/kg							
Phenol	ND	330	110	ug/kg							
Pyrene	ND	330	170	ug/kg							
1,2,4-Trichlorobenzene	ND	330	120	ug/kg							
2,4,5-Trichlorophenol	ND	330	100	ug/kg							
2,4,6-Trichlorophenol	ND	330	100	ug/kg							
1,2-Diphenylhydrazine/Azobenzene	ND	330	110	ug/kg							
Surrogate: 2-Fluorophenol	*3360*		N/A	*ug/kg*	*6670*		*50*	*25-110*			
Surrogate: Phenol-d6	*4110*		N/A	*ug/kg*	*6670*		*62*	*30-110*			
Surrogate: 2,4,6-Tribromophenol	*4310*		N/A	*ug/kg*	*6670*		*65*	*45-130*			
Surrogate: Nitrobenzene-d5	*1950*		N/A	*ug/kg*	*3330*		*59*	*30-110*			

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SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3545/8270C)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2C0670 Extracted: 03/06/02											
Blank Analyzed: 03/06/02 (I2C0670-BLK2)											
Surrogate: 2-Fluorobiphenyl	*1970*		N/A	*ug/kg*	*3330*		*59*	*30-110*			
Surrogate: Terphenyl-d14	*2030*		N/A	*ug/kg*	*3330*		*61*	*45-145*			
LCS Analyzed: 03/06/02 (I2C0670-BS1)											
Acenaphthene	2620	330	110	ug/kg	3330		79	45-120			
Acenaphthylene	2720	330	120	ug/kg	3330		82	45-120			
Aniline	2460	420	120	ug/kg	3330		74	20-120			
Anthracene	2880	330	140	ug/kg	3330		86	65-120			
Benzidine	2710	660	180	ug/kg	3330		81	10-135			
Benzoic acid	1810	830	63	ug/kg	3330		54	20-120			
Benzo(a)anthracene	2930	330	120	ug/kg	3330		88	60-125			
Benzo(b)fluoranthene	3060	330	140	ug/kg	3330		92	55-145			
Benzo(k)fluoranthene	3010	330	130	ug/kg	3330		90	55-140			
Benzo(g,h,i)perylene	2730	330	150	ug/kg	3330		82	40-140			
Benzo(a)pyrene	3030	330	110	ug/kg	3330		91	65-135			
Benzyl alcohol	2710	330	210	ug/kg	3330		81	35-120			
Bis(2-chloroethoxy)methane	2550	330	100	ug/kg	3330		77	35-120			
Bis(2-chloroethyl)ether	2540	170	120	ug/kg	3330		76	30-120			
Bis(2-chloroisopropyl)ether	2390	330	140	ug/kg	3330		72	35-120			
Bis(2-ethylhexyl)phthalate	2750	330	140	ug/kg	3330		83	35-135			
4-Bromophenyl phenyl ether	2740	330	120	ug/kg	3330		82	45-120			
Butyl benzyl phthalate	3140	330	140	ug/kg	3330		94	50-130			
4-Chloroaniline	2030	330	110	ug/kg	3330		61	20-120			
2-Chloronaphthalene	2480	330	99	ug/kg	3330		74	35-120			
4-Chloro-3-methylphenol	2780	330	150	ug/kg	3330		83	40-120			
2-Chlorophenol	2450	330	99	ug/kg	3330		74	30-120			
4-Chlorophenyl phenyl ether	2490	330	110	ug/kg	3330		75	45-120			
Chrysene	3490	330	130	ug/kg	3330		105	55-130			
Dibenz(a,h)anthracene	2980	420	140	ug/kg	3330		89	45-130			
Dibenzofuran	2650	330	110	ug/kg	3330		80	45-120			
Di-n-butyl phthalate	3150	330	130	ug/kg	3330		95	50-125			
1,3-Dichlorobenzene	2220	330	150	ug/kg	3330		67	30-120			
1,4-Dichlorobenzene	2210	330	120	ug/kg	3330		66	25-120			
1,2-Dichlorobenzene	2240	330	130	ug/kg	3330		67	30-120			
3,3-Dichlorobenzidine	2380	830	120	ug/kg	3330		71	30-125			
2,4-Dichlorophenol	2450	330	93	ug/kg	3330		74	35-120			
Diethyl phthalate	2830	330	130	ug/kg	3330		85	45-120			

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METHOD BLANK/QC DATA

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3545/8270C)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2C0670 Extracted: 03/06/02											
LCS Analyzed: 03/06/02 (I2C0670-BS1)											
2,4-Dimethylphenol	2440	330	200	ug/kg	3330		73	30-120			
Dimethyl phthalate	2750	330	120	ug/kg	3330		83	45-120			
4,6-Dinitro-2-methylphenol	2540	420	79	ug/kg	3330		76	55-120			
2,4-Dinitrophenol	1410	420	59	ug/kg	3330		42	30-120			
2,4-Dinitrotoluene	3190	330	130	ug/kg	3330		96	50-125			
2,6-Dinitrotoluene	3070	330	130	ug/kg	3330		92	50-120			
Di-n-octyl phthalate	2520	330	180	ug/kg	3330		76	35-140			
Fluoranthene	2980	330	150	ug/kg	3330		89	55-125			
Fluorene	2690	330	120	ug/kg	3330		81	55-120			
Hexachlorobenzene	2750	330	120	ug/kg	3330		83	45-120			
Hexachlorobutadiene	2100	330	120	ug/kg	3330		63	30-120			
Hexachlorocyclopentadiene	2600	830	110	ug/kg	3330		78	25-120			
Hexachloroethane	2150	330	120	ug/kg	3330		65	25-120			
Indeno(1,2,3-cd)pyrene	2850	330	140	ug/kg	3330		86	45-145			
Isophorone	2450	330	120	ug/kg	3330		74	35-120			
2-Methylnaphthalene	2370	330	110	ug/kg	3330		71	35-120			
2-Methylphenol	2500	330	120	ug/kg	3330		75	30-120			
4-Methylphenol	2650	330	110	ug/kg	3330		80	35-120			
Naphthalene	2380	330	120	ug/kg	3330		71	35-120			
2-Nitroaniline	3070	330	120	ug/kg	3330		92	45-120			
3-Nitroaniline	2790	330	65	ug/kg	3330		84	30-120			
4-Nitroaniline	3320	830	170	ug/kg	3330		100	35-130			
Nitrobenzene	2370	330	130	ug/kg	3330		71	30-120			
2-Nitrophenol	2570	330	100	ug/kg	3330		77	35-120			
4-Nitrophenol	3010	830	110	ug/kg	3330		90	35-130			
n-Nitrosodiphenylamine	2880	330	100	ug/kg	3330		86	50-120			
n-Nitroso-di-n-propylamine	2460	250	140	ug/kg	3330		74	35-120			
Pentachlorophenol	2560	830	95	ug/kg	3330		77	40-120			
Phenanthrene	2810	330	130	ug/kg	3330		84	60-120			
Phenol	2260	330	110	ug/kg	3330		68	30-120			
Pyrene	2790	330	170	ug/kg	3330		84	50-135			
1,2,4-Trichlorobenzene	2250	330	120	ug/kg	3330		68	35-120			
2,4,5-Trichlorophenol	2520	330	100	ug/kg	3330		76	40-120			
2,4,6-Trichlorophenol	2580	330	100	ug/kg	3330		77	45-120			
1,2-Diphenylhydrazine/Azobenzene	2860	330	110	ug/kg	3330		86	40-120			
Surrogate: 2-Fluorophenol	*4060*		N/A	*ug/kg*	*6670*		*61*	*25-110*			

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METHOD BLANK/QC DATA

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3545/8270C)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2C0670 Extracted: 03/06/02											
LCS Analyzed: 03/06/02 (I2C0670-BS1)											
Surrogate: Phenol-d6	*4550*		N/A	*ug/kg*	*6670*		*68*	*30-110*			
Surrogate: 2,4,6-Tribromophenol	*5270*		N/A	*ug/kg*	*6670*		*79*	*45-130*			
Surrogate: Nitrobenzene-d5	*2250*		N/A	*ug/kg*	*3330*		*68*	*30-110*			
Surrogate: 2-Fluorobiphenyl	*2290*		N/A	*ug/kg*	*3330*		*69*	*30-110*			
Surrogate: Terphenyl-d14	*2610*		N/A	*ug/kg*	*3330*		*78*	*45-145*			
Matrix Spike Analyzed: 03/06/02 (I2C0670-MS1)						**Source: ILC0170-28**					
Acenaphthene	2410	330	110	ug/kg	3330	ND	72	40-120			
Benzo(a)anthracene	2820	330	120	ug/kg	3330	ND	85	55-120			
4-Chloro-3-methylphenol	2590	330	150	ug/kg	3330	ND	78	40-130			
2-Chlorophenol	2230	330	99	ug/kg	3330	ND	67	25-120			
Dibenz(a,h)anthracene	2580	420	140	ug/kg	3330	ND	77	15-140			
Dimethyl phthalate	2570	330	120	ug/kg	3330	ND	77	45-120			
Hexachlorobutadiene	1910	330	120	ug/kg	3330	ND	57	25-120			
Naphthalene	2210	330	120	ug/kg	3330	ND	66	30-120			
4-Nitrophenol	2640	830	110	ug/kg	3330	ND	79	35-130			
n-Nitroso-di-n-propylamine	2270	250	140	ug/kg	3330	ND	68	30-125			
Pentachlorophenol	2300	830	95	ug/kg	3330	ND	69	40-120			
Phenol	1990	330	110	ug/kg	3330	ND	60	30-120			
Pyrene	2770	330	170	ug/kg	3330	ND	83	50-135			
1,2,4-Trichlorobenzene	2050	330	120	ug/kg	3330	ND	62	25-120			
Surrogate: 2-Fluorophenol	*3550*		N/A	*ug/kg*	*6670*		*53*	*25-110*			
Surrogate: Phenol-d6	*3950*		N/A	*ug/kg*	*6670*		*59*	*30-110*			
Surrogate: 2,4,6-Tribromophenol	*4700*		N/A	*ug/kg*	*6670*		*70*	*45-130*			
Surrogate: Nitrobenzene-d5	*2040*		N/A	*ug/kg*	*3330*		*61*	*30-110*			
Surrogate: 2-Fluorobiphenyl	*2080*		N/A	*ug/kg*	*3330*		*62*	*30-110*			
Surrogate: Terphenyl-d14	*2460*		N/A	*ug/kg*	*3330*		*74*	*45-145*			

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Environ-Irvine
2010 Main Street, 9th Floor
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Attention: Rebekah Wale

Project ID: Home Depot
Long Beach, 04-6889V
Report Number: ILC0222

Sampled: 03/01/02
Received: 03/06/02

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SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3545/8270C)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2C0670 Extracted: 03/06/02											
Matrix Spike Dup Analyzed: 03/06/02 (I2C0670-MSD1)						**Source: ILC0170-28**					
Acenaphthene	2650	330	110	ug/kg	3330	ND	80	40-120	9	20	
Benzo(a)anthracene	3050	330	120	ug/kg	3330	ND	92	55-120	8	15	
4-Chloro-3-methylphenol	2800	330	150	ug/kg	3330	ND	84	40-130	8	20	
2-Chlorophenol	2460	330	99	ug/kg	3330	ND	74	25-120	10	25	
Dibenz(a,h)anthracene	2800	420	140	ug/kg	3330	ND	84	15-140	8	25	
Dimethyl phthalate	2730	330	120	ug/kg	3330	ND	82	45-120	6	20	
Hexachlorobutadiene	2110	330	120	ug/kg	3330	ND	63	25-120	10	25	
Naphthalene	2450	330	120	ug/kg	3330	ND	74	30-120	10	20	
4-Nitrophenol	2950	830	110	ug/kg	3330	ND	89	35-130	11	25	
n-Nitroso-di-n-propylamine	2430	250	140	ug/kg	3330	ND	73	30-125	7	25	
Pentachlorophenol	2670	830	95	ug/kg	3330	ND	80	40-120	15	25	
Phenol	2200	330	110	ug/kg	3330	ND	66	30-120	10	30	
Pyrene	2980	330	170	ug/kg	3330	ND	89	50-135	7	20	
1,2,4-Trichlorobenzene	2270	330	120	ug/kg	3330	ND	68	25-120	10	25	
Surrogate: 2-Fluorophenol	*3900*		N/A	*ug/kg*	*6670*		*58*	*25-110*			
Surrogate: Phenol-d6	*4360*		N/A	*ug/kg*	*6670*		*65*	*30-110*			
Surrogate: 2,4,6-Tribromophenol	*5030*		N/A	*ug/kg*	*6670*		*75*	*45-130*			
Surrogate: Nitrobenzene-d5	*2290*		N/A	*ug/kg*	*3330*		*69*	*30-110*			
Surrogate: 2-Fluorobiphenyl	*2280*		N/A	*ug/kg*	*3330*		*68*	*30-110*			
Surrogate: Terphenyl-d14	*2730*		N/A	*ug/kg*	*3330*		*82*	*45-145*			

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METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2C0746 Extracted: 03/07/02											
Blank Analyzed: 03/07/02 (I2C0746-BLK1)											
Mercury	ND	0.020	N/A	mg/kg							
LCS Analyzed: 03/07/02 (I2C0746-BS1)											
Mercury	0.756	0.020	N/A	mg/kg	0.800		94	85-120			
Matrix Spike Analyzed: 03/07/02 (I2C0746-MS1)						**Source: ILC0222-01**					
Mercury	0.711	0.020	N/A	mg/kg	0.800	0.029	85	65-135			
Matrix Spike Dup Analyzed: 03/07/02 (I2C0746-MSD1)						**Source: ILC0222-01**					
Mercury	0.950	0.020	N/A	mg/kg	0.800	0.029	115	65-135	29	20	*R*
Batch: I2C0868 Extracted: 03/04/02											
Blank Analyzed: 03/04/02 (I2C0868-BLK1)											
Antimony	ND	10	N/A	mg/kg							
Arsenic	ND	2.0	N/A	mg/kg							
Barium	ND	1.0	N/A	mg/kg							
Beryllium	ND	0.50	N/A	mg/kg							
Cadmium	ND	0.50	N/A	mg/kg							
Chromium	ND	1.0	N/A	mg/kg							
Cobalt	ND	1.0	N/A	mg/kg							
Copper	ND	2.0	N/A	mg/kg							
Lead	ND	2.0	N/A	mg/kg							
Molybdenum	ND	2.0	N/A	mg/kg							
Nickel	ND	2.0	N/A	mg/kg							
Selenium	ND	2.0	N/A	mg/kg							
Silver	ND	1.0	N/A	mg/kg							
Thallium	ND	10	N/A	mg/kg							
Vanadium	ND	1.0	N/A	mg/kg							
Zinc	ND	5.0	N/A	mg/kg							

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METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2C0868 Extracted: 03/04/02											
LCS Analyzed: 03/04/02 (I2C0868-BS1)											
Antimony	50.4	10	N/A	mg/kg	50.0		101	80-120			
Arsenic	49.9	2.0	N/A	mg/kg	50.0		100	80-120			
Barium	50.2	1.0	N/A	mg/kg	50.0		100	80-120			
Beryllium	49.6	0.50	N/A	mg/kg	50.0		99	80-120			
Cadmium	49.4	0.50	N/A	mg/kg	50.0		99	80-120			
Chromium	49.4	1.0	N/A	mg/kg	50.0		99	80-120			
Cobalt	50.3	1.0	N/A	mg/kg	50.0		101	80-120			
Copper	49.1	2.0	N/A	mg/kg	50.0		98	80-120			
Lead	50.1	2.0	N/A	mg/kg	50.0		100	80-120			
Molybdenum	50.9	2.0	N/A	mg/kg	50.0		102	80-120			
Nickel	49.0	2.0	N/A	mg/kg	50.0		98	80-120			
Selenium	46.4	2.0	N/A	mg/kg	50.0		93	80-120			
Silver	24.3	1.0	N/A	mg/kg	25.0		97	80-120			
Thallium	45.0	10	N/A	mg/kg	50.0		90	80-120			
Vanadium	50.5	1.0	N/A	mg/kg	50.0		101	80-120			
Zinc	48.4	5.0	N/A	mg/kg	50.0		97	80-120			
Matrix Spike Analyzed: 03/04/02 (I2C0868-MS1)						**Source: ILC0222-06**					
Antimony	20.3	10	N/A	mg/kg	50.0	ND	40	75-125			*M2*
Arsenic	50.7	2.0	N/A	mg/kg	50.0	3.2	95	75-125			
Barium	125	1.0	N/A	mg/kg	50.0	77	96	75-125			
Beryllium	46.0	0.50	N/A	mg/kg	50.0	ND	92	75-125			
Cadmium	45.9	0.50	N/A	mg/kg	50.0	ND	91	75-125			
Chromium	67.7	1.0	N/A	mg/kg	50.0	21	93	75-125			
Cobalt	51.3	1.0	N/A	mg/kg	50.0	5.7	91	75-125			
Copper	64.3	2.0	N/A	mg/kg	50.0	15	99	75-125			
Lead	98.7	2.0	N/A	mg/kg	50.0	45	107	75-125			
Molybdenum	47.2	2.0	N/A	mg/kg	50.0	ND	91	75-125			
Nickel	59.9	2.0	N/A	mg/kg	50.0	14	92	75-125			
Selenium	43.0	2.0	N/A	mg/kg	50.0	ND	86	75-125			
Silver	22.3	1.0	N/A	mg/kg	25.0	ND	89	75-125			
Thallium	42.8	10	N/A	mg/kg	50.0	ND	83	75-125			
Vanadium	75.9	1.0	N/A	mg/kg	50.0	27	98	75-125			
Zinc	192	5.0	N/A	mg/kg	50.0	130	124	75-125			

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Long Beach, 04-6889V
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METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2C0868 Extracted: 03/04/02											
Matrix Spike Dup Analyzed: 03/04/02 (I2C0868-MSD1)						**Source: ILC0222-06**					
Antimony	16.0	10	N/A	mg/kg	50.0	ND	31	75-125	24	20	*M2,R-3*
Arsenic	51.6	2.0	N/A	mg/kg	50.0	3.2	97	75-125	2	20	
Barium	136	1.0	N/A	mg/kg	50.0	77	118	75-125	8	20	
Beryllium	47.0	0.50	N/A	mg/kg	50.0	ND	94	75-125	2	20	
Cadmium	47.0	0.50	N/A	mg/kg	50.0	ND	93	75-125	2	20	
Chromium	71.3	1.0	N/A	mg/kg	50.0	21	101	75-125	5	20	
Cobalt	53.0	1.0	N/A	mg/kg	50.0	5.7	95	75-125	3	20	
Copper	66.0	2.0	N/A	mg/kg	50.0	15	102	75-125	3	20	
Lead	85.8	2.0	N/A	mg/kg	50.0	45	82	75-125	14	20	
Molybdenum	47.6	2.0	N/A	mg/kg	50.0	ND	92	75-125	1	20	
Nickel	61.6	2.0	N/A	mg/kg	50.0	14	95	75-125	3	20	
Selenium	44.8	2.0	N/A	mg/kg	50.0	ND	90	75-125	4	20	
Silver	22.6	1.0	N/A	mg/kg	25.0	ND	90	75-125	1	20	
Thallium	44.4	10	N/A	mg/kg	50.0	ND	86	75-125	4	20	
Vanadium	82.5	1.0	N/A	mg/kg	50.0	27	111	75-125	8	20	
Zinc	188	5.0	N/A	mg/kg	50.0	130	116	75-125	2	20	
Batch: I2C0882 Extracted: 03/04/02											
Blank Analyzed: 03/04/02 (I2C0882-BLK1)											
Antimony	ND	10	N/A	mg/kg							
Arsenic	ND	2.0	N/A	mg/kg							
Barium	ND	1.0	N/A	mg/kg							
Beryllium	ND	0.50	N/A	mg/kg							
Cadmium	ND	0.50	N/A	mg/kg							
Chromium	ND	1.0	N/A	mg/kg							
Cobalt	ND	1.0	N/A	mg/kg							
Copper	ND	2.0	N/A	mg/kg							
Lead	ND	2.0	N/A	mg/kg							
Molybdenum	ND	2.0	N/A	mg/kg							
Nickel	ND	2.0	N/A	mg/kg							
Selenium	ND	2.0	N/A	mg/kg							
Silver	ND	1.0	N/A	mg/kg							
Thallium	ND	10	N/A	mg/kg							
Vanadium	ND	1.0	N/A	mg/kg							
Zinc	ND	5.0	N/A	mg/kg							

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METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2C0882 Extracted: 03/04/02											
LCS Analyzed: 03/04/02 (I2C0882-BS1)											
Antimony	49.5	10	N/A	mg/kg	50.0		99	80-120			
Arsenic	50.4	2.0	N/A	mg/kg	50.0		101	80-120			
Barium	47.4	1.0	N/A	mg/kg	50.0		95	80-120			
Beryllium	47.2	0.50	N/A	mg/kg	50.0		94	80-120			
Cadmium	46.0	0.50	N/A	mg/kg	50.0		92	80-120			
Chromium	47.5	1.0	N/A	mg/kg	50.0		95	80-120			
Cobalt	46.0	1.0	N/A	mg/kg	50.0		92	80-120			
Copper	45.6	2.0	N/A	mg/kg	50.0		91	80-120			
Lead	46.3	2.0	N/A	mg/kg	50.0		93	80-120			
Molybdenum	47.5	2.0	N/A	mg/kg	50.0		95	80-120			
Nickel	45.7	2.0	N/A	mg/kg	50.0		91	80-120			
Selenium	45.9	2.0	N/A	mg/kg	50.0		92	80-120			
Silver	22.9	1.0	N/A	mg/kg	25.0		92	80-120			
Thallium	45.8	10	N/A	mg/kg	50.0		92	80-120			
Vanadium	47.3	1.0	N/A	mg/kg	50.0		95	80-120			
Zinc	44.6	5.0	N/A	mg/kg	50.0		89	80-120			
Matrix Spike Analyzed: 03/04/02 (I2C0882-MS1)						**Source: ILC0034-20RE1**					
Antimony	18.1	10	N/A	mg/kg	50.0	ND	35	75-125			*M2*
Arsenic	47.7	2.0	N/A	mg/kg	50.0	ND	92	75-125			
Barium	90.6	1.0	N/A	mg/kg	50.0	51	79	75-125			
Beryllium	42.8	0.50	N/A	mg/kg	50.0	ND	86	75-125			
Cadmium	43.6	0.50	N/A	mg/kg	50.0	ND	87	75-125			
Chromium	59.3	1.0	N/A	mg/kg	50.0	16	87	75-125			
Cobalt	48.2	1.0	N/A	mg/kg	50.0	6.1	84	75-125			
Copper	50.8	2.0	N/A	mg/kg	50.0	7.1	87	75-125			
Lead	44.9	2.0	N/A	mg/kg	50.0	3.4	83	75-125			
Molybdenum	41.2	2.0	N/A	mg/kg	50.0	ND	82	75-125			
Nickel	52.9	2.0	N/A	mg/kg	50.0	12	82	75-125			
Selenium	42.2	2.0	N/A	mg/kg	50.0	ND	84	75-125			
Silver	19.5	1.0	N/A	mg/kg	25.0	ND	78	75-125			
Thallium	36.9	10	N/A	mg/kg	50.0	ND	74	75-125			*M2*
Vanadium	66.2	1.0	N/A	mg/kg	50.0	22	88	75-125			
Zinc	71.0	5.0	N/A	mg/kg	50.0	30	82	75-125			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2C0882 Extracted: 03/04/02											
Matrix Spike Dup Analyzed: 03/04/02 (I2C0882-MSD1)						**Source: ILC0034-20RE1**					
Antimony	17.7	10	N/A	mg/kg	50.0	ND	34	75-125	2	20	*M2*
Arsenic	48.9	2.0	N/A	mg/kg	50.0	ND	95	75-125	2	20	
Barium	103	1.0	N/A	mg/kg	50.0	51	104	75-125	13	20	
Beryllium	43.3	0.50	N/A	mg/kg	50.0	ND	87	75-125	1	20	
Cadmium	43.9	0.50	N/A	mg/kg	50.0	ND	87	75-125	1	20	
Chromium	59.5	1.0	N/A	mg/kg	50.0	16	87	75-125	0	20	
Cobalt	49.2	1.0	N/A	mg/kg	50.0	6.1	86	75-125	2	20	
Copper	51.8	2.0	N/A	mg/kg	50.0	7.1	89	75-125	2	20	
Lead	46.7	2.0	N/A	mg/kg	50.0	3.4	87	75-125	4	20	
Molybdenum	41.9	2.0	N/A	mg/kg	50.0	ND	84	75-125	2	20	
Nickel	57.0	2.0	N/A	mg/kg	50.0	12	90	75-125	7	20	
Selenium	42.6	2.0	N/A	mg/kg	50.0	ND	85	75-125	1	20	
Silver	19.6	1.0	N/A	mg/kg	25.0	ND	78	75-125	1	20	
Thallium	37.6	10	N/A	mg/kg	50.0	ND	75	75-125	2	20	
Vanadium	67.2	1.0	N/A	mg/kg	50.0	22	90	75-125	1	20	
Zinc	73.5	5.0	N/A	mg/kg	50.0	30	87	75-125	3	20	

Del Mar Analytical, Irvine
Patty Mata
Project Manager

Del Mar Analytical

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9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Environ-Irvine
2010 Main Street, 9th Floor
Irvine, CA 92614
Attention: Rebekah Wale

Project ID: Home Depot
Long Beach, 04-6889V
Report Number: ILC0222

Sampled: 03/01/02
Received: 03/06/02

METHOD BLANK/QC DATA

STLC METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: I2C0889 Extracted: 03/08/02											
Blank Analyzed: 03/09/02 (I2C0889-BLK1)											
Lead	ND	0.10	N/A	mg/l							
LCS Analyzed: 03/09/02 (I2C0889-BS1)											
Lead	18.6	0.10	N/A	mg/l	20.0		93	80-120			
Matrix Spike Analyzed: 03/09/02 (I2C0889-MS1)						**Source: ILC0222-03**					
Lead	18.7	0.10	N/A	mg/l	20.0	0.47	91	75-125			
Matrix Spike Dup Analyzed: 03/09/02 (I2C0889-MSD1)						**Source: ILC0222-03**					
Lead	18.6	0.10	N/A	mg/l	20.0	0.47	91	75-125	1	20	

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9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Environ-Irvine	Project ID: Home Depot	
2010 Main Street, 9th Floor	Long Beach, 04-6889V	Sampled: 03/01/02
Irvine, CA 92614	Report Number: ILC0222	Received: 03/06/02
Attention: Rebekah Wale		

DATA QUALIFIERS AND DEFINITIONS

C	Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
M2	The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
R	The RPD exceeded the method control limit due to sample matrix effects. The individual analyte QA/QC recoveries, however, were within acceptance limits.
R-3	The RPD exceeded the method control limit due to sample matrix effects.
RL-1	Reporting limit raised due to sample matrix effects.
RL-3	Reporting limit raised due to high concentrations of non-target analytes.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
NR	Not reported.
RPD	Relative Percent Difference

ADDITIONAL COMMENTS

For 1,2-Diphenylhydrazine:

The result for 1,2-Diphenylhydrazine is based upon the reading of its breakdown product, Azobenzene.

Del Mar Analytical, Irvine
Patty Mata
Project Manager

Del Mar Analytical

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16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

ADDITIONAL ANALYSIS REQUEST FORM

Today's Date: 3/6/02 Del Mar Analytical Project Manager: fm

Request via: ___ telephone ___ chain of custody form ___ fax transmission X E-mail ___ other

Client: Environ Contact: Rebekah Wale

Project: Home Depot Long Beach 04-6989V

Date Sampled: 3/1/02 Date Received: 3/1/02

Status: ___ in progress X completed ___ received today ___ received yesterday ___ on hold ___ other

SAMPLE NUMBER	SAMPLE DESCRIPTION	ANALYSIS REQUESTED	SPECIAL REQUIREMENTS
ILC0034-06	SB10-5-5.5	STLC Lead, Cam 17 mets	
13	SB4-0-0.5	STLC Lead, Cam 17 mets, 8260, 8270	Note: Limited sample volume
19	SB5-0-0.5	STLC Lead, Cam 17 mets	
31	SB7-0-0.5	↓	↓
37	SB8-0-0.5	↓	↓
01	SB10-0-0.5	Cam 17 metals	
02	SB10-1-1.5	↓	
07	SB3-0-0.5		
09	SB3-2-2.5		
11	SB3-4-4.5		

New work order # needed

TURNAROUND STATUS: _____Same Day _____24hr X 48hr X 3days all Cam 17, 8260, 8270 STLC Pb

_____5days _____Standard _____No Rush Charge

ENVIRON

CHAIN-of-CUSTODY

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☐ 707 Wilshire Blvd., Suite 4950, Los Angeles, Calif. 90017, (213) 943-6300, (213) 943-6301 (fax)

MSA#: ~~6684002~~ ☐ WO#: Wo2002-8

PROJECT NAME / FACILITY ID: Home Depot - Long Beach FIELD PERSON: Safaa Dergham

PROJECT NUMBER: 04-6889V DATE: 03/01/02 PROJECT MANAGER: Rebekah Wale

PROJECT LOCATION: 405 Fwy + Atlantic off Ramp South LABORATORY: Del Mar Analytical

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #:

SAMPLER: SAFAA DERGHAM

SIGNATURE:

SAMPLE I.D. NUMBER	YEAR 2002 SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH	MATRIX (S) SOIL (G) GAS (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED: 6010 / 7420 Lead only / PH	COMMENTS
SB10-0-0.5	3/1		←	S	1	N/A	Ice	X	
SB10-1-1.5	↓			↓	1	↓	↓	X	
SB10-2-2.5					1			X	
SB10-3-3.5					1			X	
SB10-4-4.5					1			X	
SB10-5-5.5					1			X	
SB3-0-0.5					1			X	
SB3-1-1.5					1			X	
SB3-2-2.5					1			X	
SB3-3-3.5	↓			↓	1	↓	↓	X	
TOTAL	X	X	X		10				

H = HCL; N = HNO_3; S = H_2SO_4; U = UNKNOWN; NO = NONE; O = OTHER

RELINQUISHED BY:	TIME/DATE:	RECEIVED BY:	TIME/DATE:
	1320 / 03-01-02	(COMPANY):	
RELINQUISHED BY:	TIME/DATE:	RECEIVED BY:	TIME/DATE:
	1320 3-01-02	(COMPANY):	
RELINQUISHED BY:	TIME/DATE:	RECEIVED BY:	TIME/DATE:
	1400 / 03-01-02	(COMPANY):	1400 3-1-02

TURNAROUND TIME (CIRCLE ONE): SAMEDAY, 24 HOURS, (48 HOURS), 72 HOURS, 5 DAYS, NORMAL

SAMPLE INTEGRITY: INTACT Yes ON ICE 2 °C

FREE LOGS/CHARTS

ENVIRON

☐ 2010 Main St., Suite 900, Irvine, Calif. 92614 (949) 261-5151 (949) 261-6202 (fax)
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CHAIN-of-CUSTODY

00555 PAGE 2 of 5

MSA#: SCSH-2002-17 WO#: 102002-8

PROJECT NAME / FACILITY ID: HOME DEPOT -LONG BEACH FIELD PERSON: SAFAA DERGHAM

PROJECT NUMBER: 04-6889V DATE: 3/1/02 PROJECT MANAGER: REBEKAH WALE

PROJECT LOCATION: 405 FWY & ATLANTIC OFF RAMP-SOUTH LABORATORY: DEL MAR

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #:

SAMPLER: SAFAA DERGHAM

SIGNATURE:

SAMPLE I.D. NUMBER	YEAR 2002 SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH	MATRIX (S) SOIL (G) GAS (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED 8010/7420 (EDB/DCA) PH	COMMENTS
SB3-4-4.5	3/1		↑	S	1	-	ICE	X X	
SB3-5-5.5	↓			↓	1	-	↓		
SB4-0-0.5					1	-			
SB4-1-1.5					1	-			
SB4-2-2.5					1	-			
SB4-3-3.5					1	-			
SB4-4-4.5					1	-			
SB4-5-5.5					1	-			
SB5-0-0.5					1	-			
SB5-1-1.5	↓			↓	1	-	↓	X X	
TOTAL	X	X	X		10				

H = HCL; N = HNO_3; S = H_2SO_4; U = UNKNOWN; NO = NONE; O = OTHER

RELINQUISHED BY:	TIME/DATE: 1320 / 03-01-02	RECEIVED BY: (COMPANY):	TIME/DATE:
RELINQUISHED BY:	TIME/DATE: 1320 3-01-02	RECEIVED BY: (COMPANY):	TIME/DATE:
RELINQUISHED BY:	TIME/DATE: 1400 / 03-01-02	RECEIVED BY: (COMPANY):	TIME/DATE: 1400 3-1-02

TURNAROUND TIME (CIRCLE ONE): SAMEDAY, 24 HOURS, 48 HOURS, 72 HOURS, 5 DAYS, NORMAL

SAMPLE INTEGRITY: INTACT YES ON ICE 2°C

FILE: LOGS\CHAINS1

ENVIRON

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CHAIN-of-CUSTODY

00556 PAGE 3 of 5

MSA#: SCBU-2000-17 WO#: W022002-8

PROJECT NAME / FACILITY ID: Homedepot - Long Beach FIELD PERSON: S. Deraham

PROJECT NUMBER: 04-6889V DATE: 3/1/02 PROJECT MANAGER: Rebekah Wade

PROJECT LOCATION: 405 Fwy + Atlantic off ramp-South LABORATORY: Del Mar

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #: _____

SAMPLER: SAFAA DERGHAM

SIGNATURE: [signature]

SAMPLE I.D. NUMBER	SAMPLE DATE (YEAR 02)	SAMPLE TIME	SAMPLE DEPTH	MATRIX (S) SOIL (O) GAS (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED: 6010 7420 (Total Lead) PH	COMMENTS
SB5-2-2.5	3/1		←	S	1	—	ice	X X	
SB5-3-3.5					1	—		X X	
SB5-4-4.5					1	—		X X	
SB5-5-5.5					1	—		X X	
SB6-0-0.5					1	—		X X	
SB6-1-1.5					1	—		X X	
SB6-2-2.5					1	—		X X	
SB6-3-3.5					1	—		X X	
SB6-4-4.5					1	—		X X	
SB6-5-5.5				↓	1	—	↓	X X	
TOTAL	X	X	X		10				

H = HCL; N = HNO3; S = H2SO4; U = UNKNOWN; NO = NONE; O = OTHER

RELINQUISHED BY: [signature]	TIME/DATE: 1320 03-01-02	RECEIVED BY: [signature] (COMPANY):	TIME/DATE: 1320 3-1-02
RELINQUISHED BY:	TIME/DATE:	RECEIVED BY: (COMPANY):	TIME/DATE:
RELINQUISHED BY: [signature]	TIME/DATE: 1400 / 03-01-02	RECEIVED BY: [signature] (COMPANY)	TIME/DATE: 1400 3-1-02

TURNAROUND TIME (CIRCLE ONE): SAMEDAY, 24 HOURS, 48 HOURS, 72 HOURS, 5 DAYS, NORMAL

SAMPLE INTEGRITY: INTACT YES ON ICE 2°C

FILE LOGS\CHNCSI

ENVIRON

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CHAIN-of-CUSTODY

00557 PAGE 4 of 5

MSA#: SBU-2002-17 WO#: W02002-3

PROJECT NAME / FACILITY ID: Home depot - Long Beach FIELD PERSON: S Dereham

PROJECT NUMBER: 04-6889V DATE: 3/1/02 PROJECT MANAGER: Rebekah Wake

PROJECT LOCATION: 405 Fwy + Atlantic off Ramps LABORATORY: Del Mar

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #:

SAMPLER: SARA DERGHAM

SIGNATURE:

SAMPLE I.D. NUMBER	SAMPLE DATE (YEAR 02)	SAMPLE TIME	SAMPLE DEPTH	MATRIX (S) SOIL (G) GAS (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED 5030/7420 (TO tal Lead)	PH								COMMENTS
SB7-0-0.5	03/01			S	1	-	16	X	X								
SB7-1-1.5					1	-		X	X								
SB7-2-2.5					1	-		X	X								
SB7-3-3.5					1	-		X	X								
SB7-4-4.5					1	-		X	X								
SB7-5-5.5					1	-		X	X								
SB8-0-0.5					1	-		X	X								
SB8-1-1.5					1	-		X	X								
SB8-2-2.5					1	-		X	X								
SB8-3-3.5					1	-		X	X								
TOTAL	X	X	X		10												

H = HCL; N = HNO_3; S = H_2SO_4; U = UNKNOWN; NO = NONE; O = OTHER

RELINQUISHED BY:	TIME/DATE: 1320 / 03-01-02	RECEIVED BY:	TIME/DATE:
RELINQUISHED BY:	TIME/DATE: 1320 3-1-02	RECEIVED BY: (COMPANY):	TIME/DATE:
RELINQUISHED BY:	TIME/DATE: 1400 / 03-01-02	RECEIVED BY: (COMPANY):	TIME/DATE: 1400 3-1-02

TURNAROUND TIME (CIRCLE ONE): SAMEDAY, 24 HOURS, 48 HOURS, 72 HOURS, 5 DAYS, NORMAL

SAMPLE INTEGRITY: INTACT Yes ON ICE 2°C

FREE LOGS\CHAIN.CDT

ENVIRON

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CHAIN-of-CUSTODY

00558 PAGE 5 of 5

MSA#: SCAL-2002-17 WO#: WI2002-6

PROJECT NAME / FACILITY ID: Home Depot Long Beach FIELD PERSON: S. Dearham

PROJECT NUMBER: 04-6889V DATE: 03-01-02 PROJECT MANAGER: Rebekah Wade

PROJECT LOCATION: 405 Fwy + Atlantic off ramp S. LABORATORY: Del Mar

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #:

SAMPLER: SARAH DEARHAM

SIGNATURE:

SAMPLE I.D. NUMBER	YEAR 02 SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH	MATRIX (S) SOIL (G) GAS (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED 8010/7420 (total Pb)	PH							COMMENTS
SB8-4-4.5	03/01		←	S	1	U	HA	X	X							
SB8-5.5-5.5					1	U		X	X							
SB9-0-0.5					1	U		X	X							
SB9-1-1.5					1	U		X	X							
SB9-2-2.5					1	U		X	X							
SB9-3-3.5					1	U		X	X							
SB9-4-4.5					1	U		X	X							
SB9-5-5.5					1	U		X	X							
TOTAL	X	X	X		8											

RELINQUISHED BY:	TIME/DATE: 1320 03-01-02	RECEIVED BY: (COMPANY):	TIME/DATE:
RELINQUISHED BY:	TIME/DATE: 1320 3-01-02	RECEIVED BY: (COMPANY):	TIME/DATE:
RELINQUISHED BY:	TIME/DATE: 1400 03-01-02	RECEIVED BY: (COMPANY):	TIME/DATE: 1400 3-1-02

TURNAROUND TIME (CIRCLE ONE): SAMEDAY, 24 HOURS, 48 HOURS, 72 HOURS, 5 DAYS, NORMAL

SAMPLE INTEGRITY: INTACT YES ON ICE 2°C

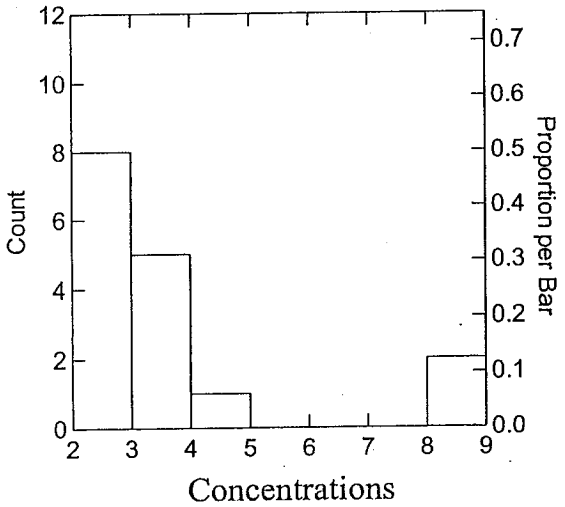
H = HCL; N = HNO3; S = H2SO4; U = UNKNOWN; NO = NONE; O = OTHER

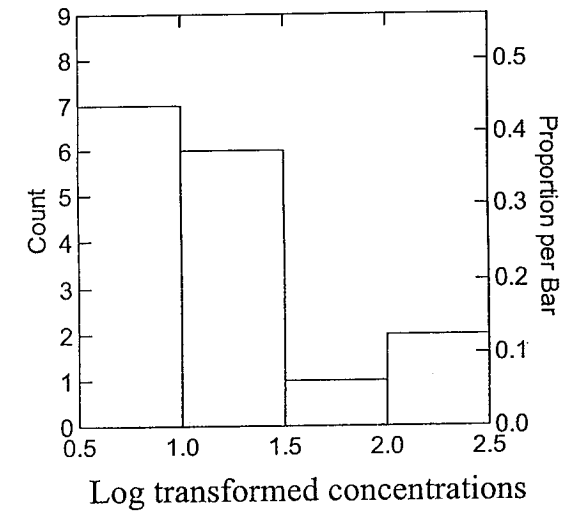
FILE: TOOLS\CHOICE1

APPENDIX C

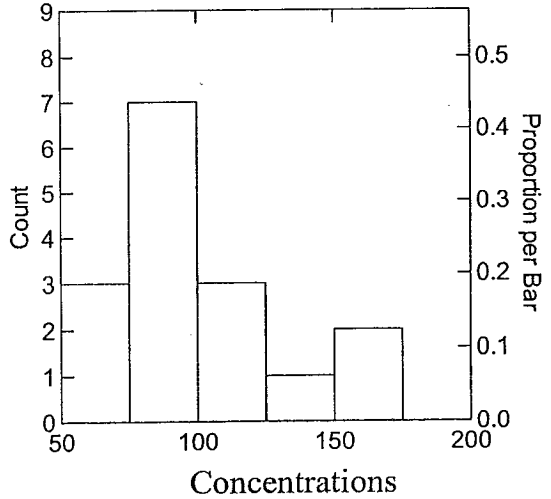
Histograms

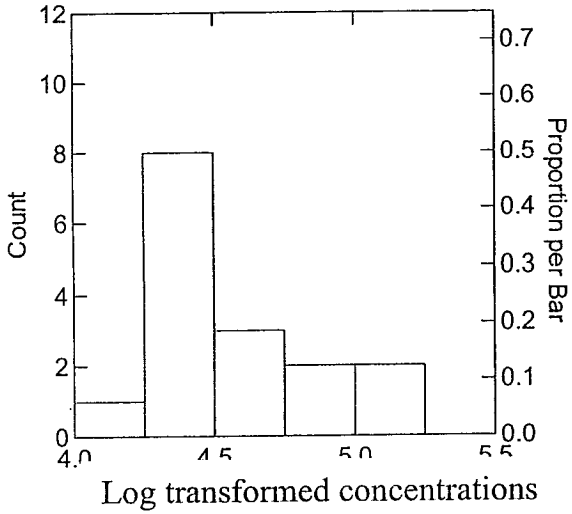
Arsenic



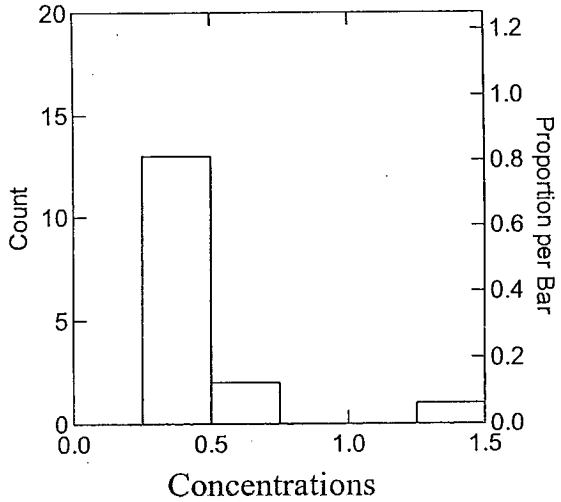


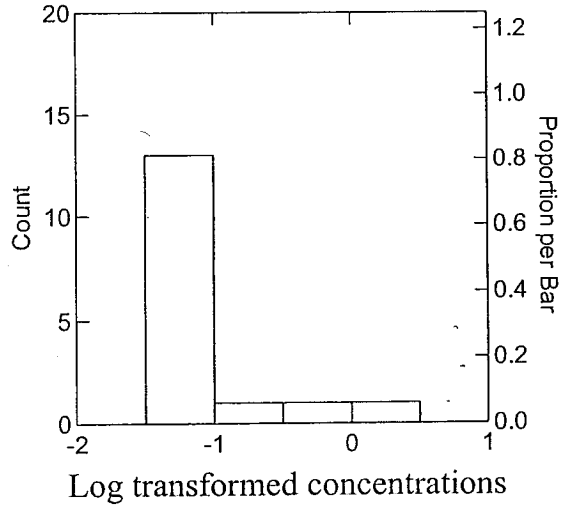
Barium



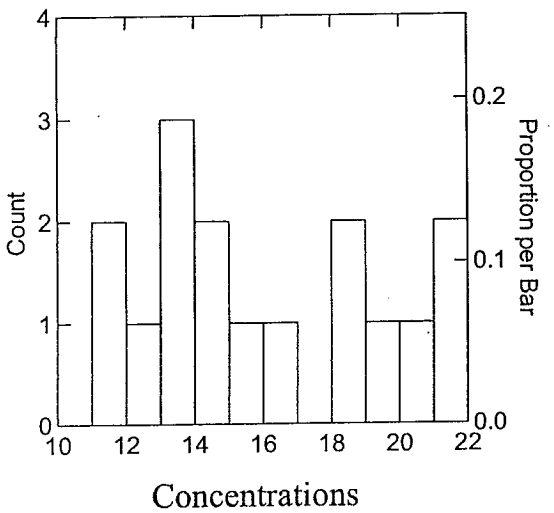


Cadmium

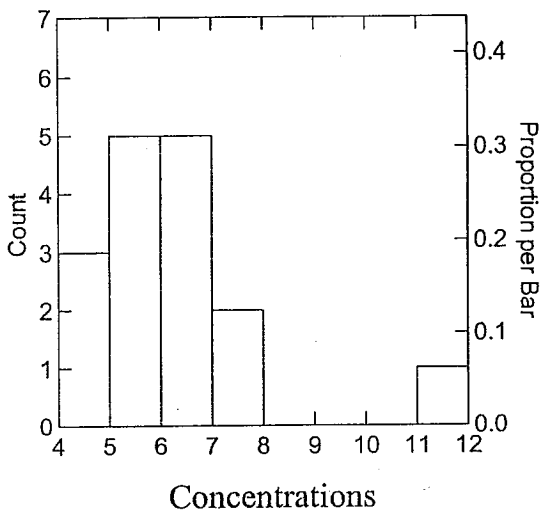




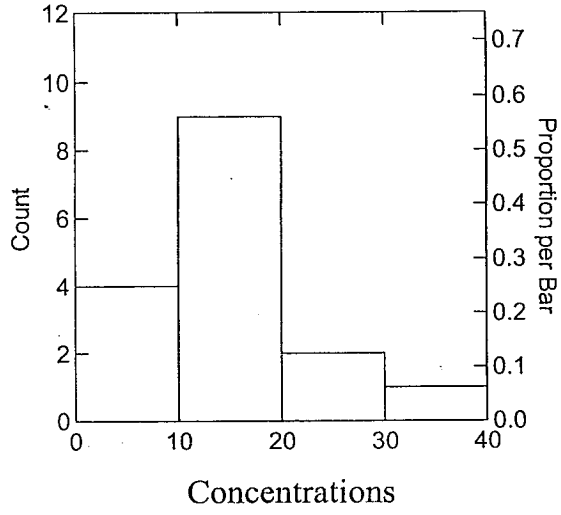
Chromium

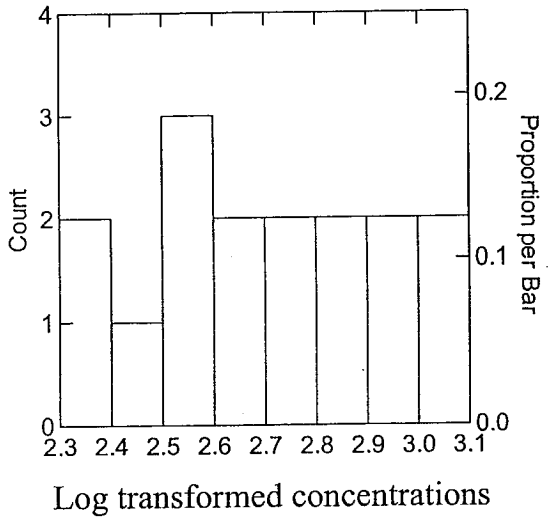


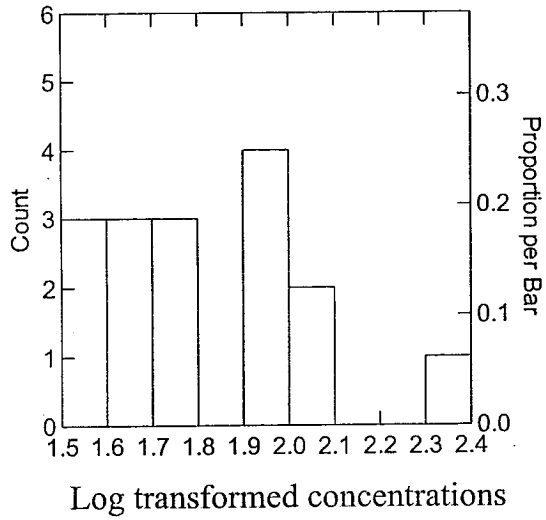
Cobalt

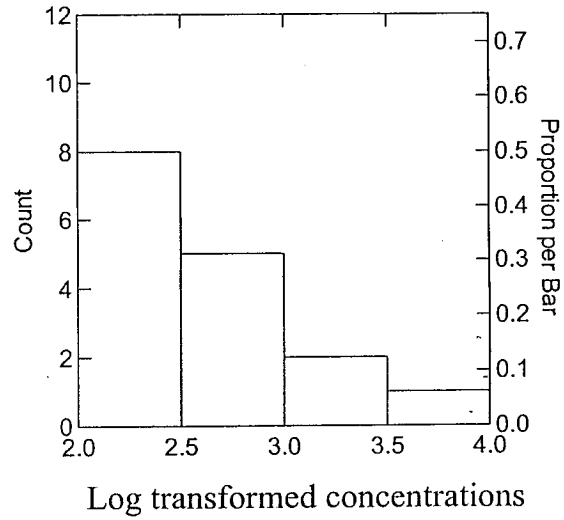


Copper

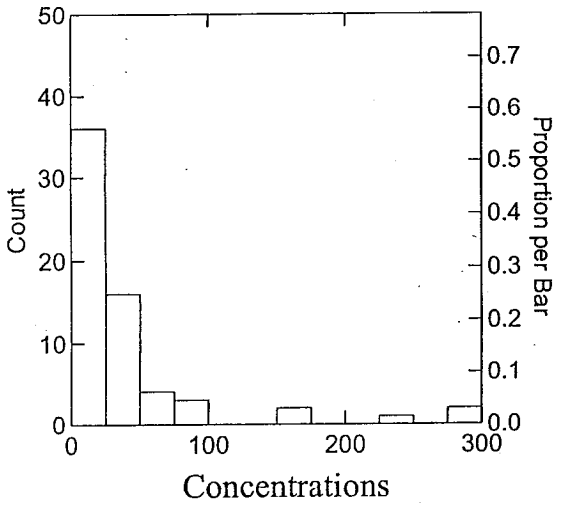


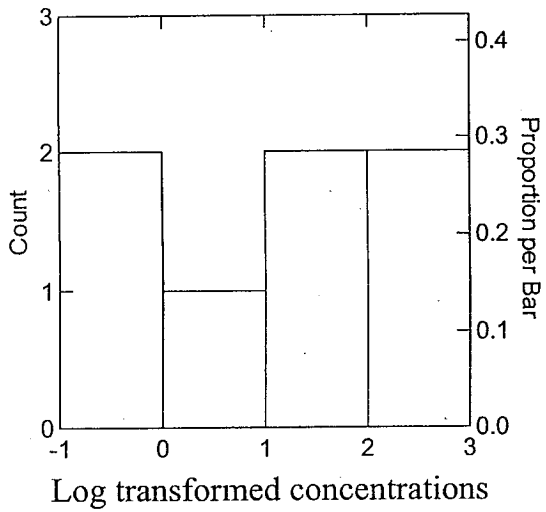




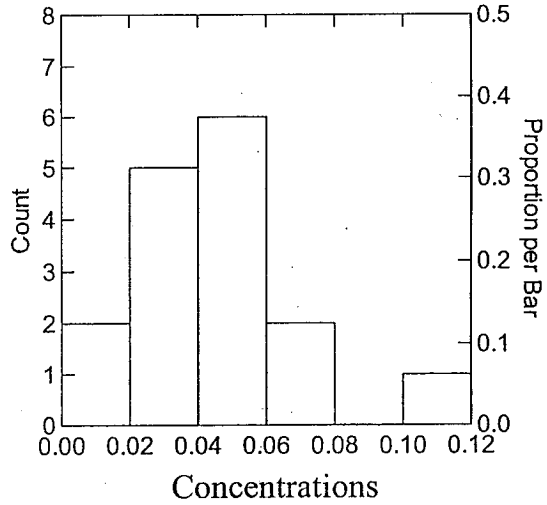


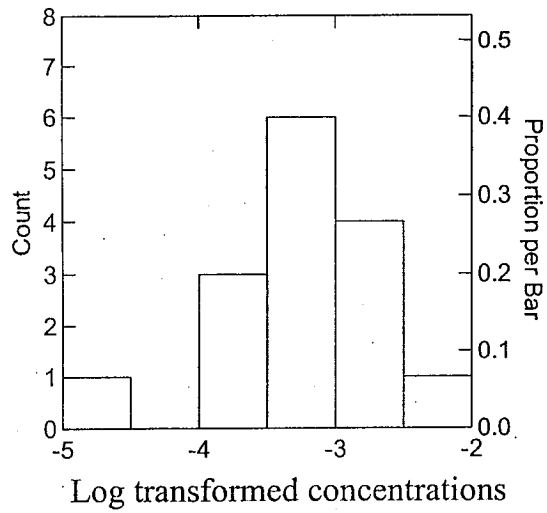
Lead



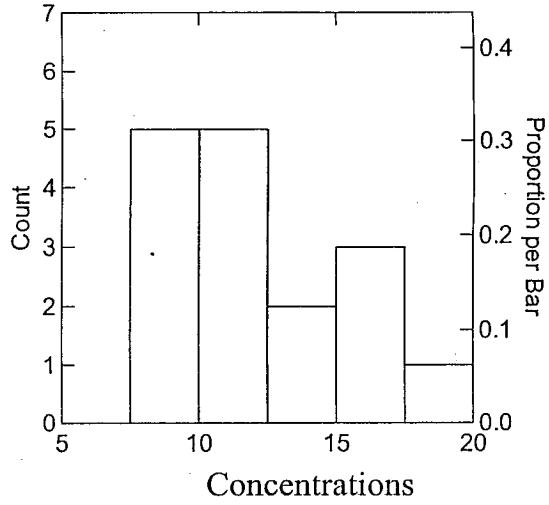


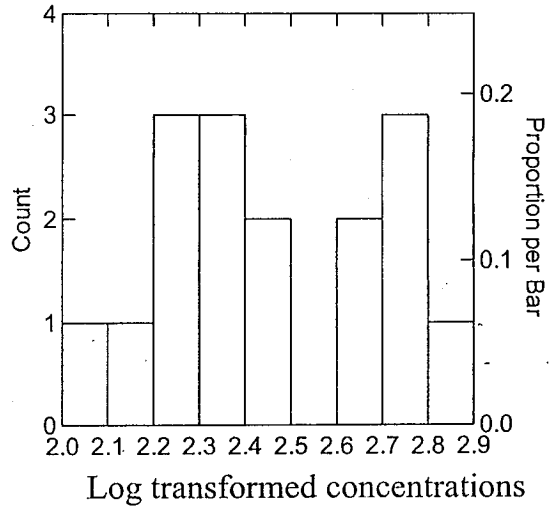
Mercury



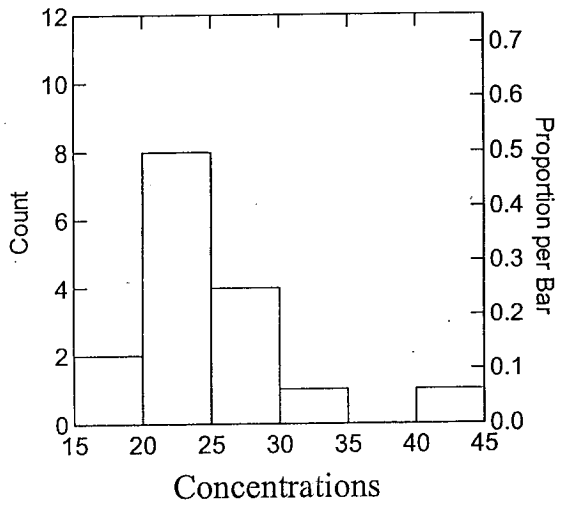


Nickel

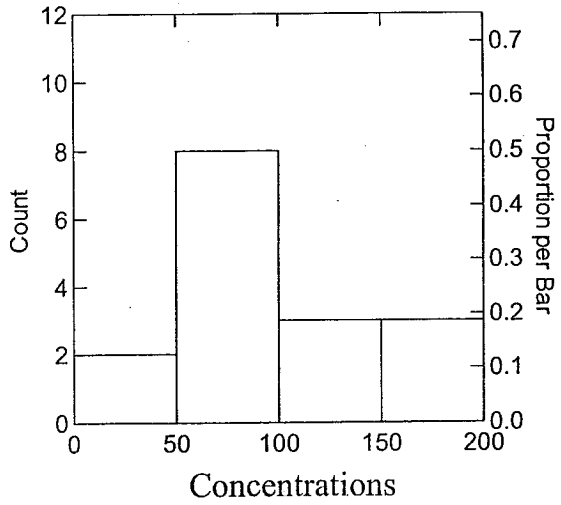


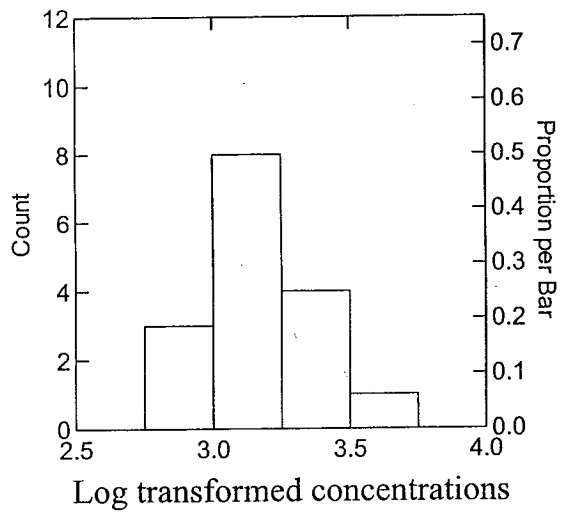


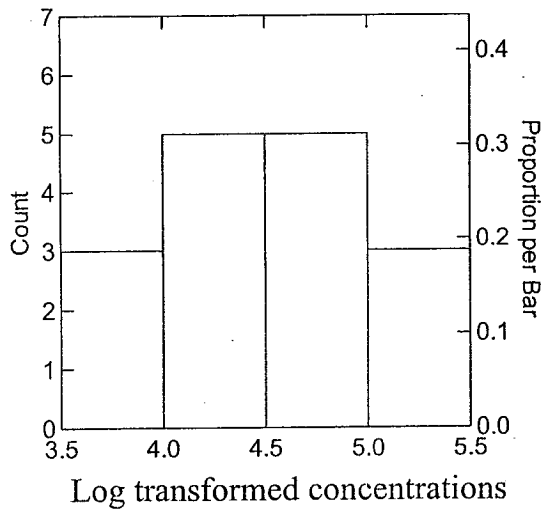
Vanadium



Zinc







Home Depot - Signal Hill
Response to October 15, 2004, December 27, 2004, and February 11, 2005 Cal-Trans Comments

Comment Number	Cal-Trans Comment	ENVIRON Response
COMMENTS PROVIDED BY STEVE CHAN (Cal-Trans)		
1.	This permit project is not funded by the Department and thus, all excavated soil shall be disposed of off-site. As a result, the total lead upper confidence limit (UCL) should be reported in comparison to the regulatory disposal thresholds as stipulated in the Health and Safety Code 25157.8 and AB 414. A 95-percent UCL is used for relinquishment to contractors or to determine handling and disposal of excess soil	95-percent UCL are now reported.
2.	On Page 7 in the 1st paragraph, a best-fit line is described as having been calculated and forced through the origin. An equation on Figure 3 indicates that the best-fit line is not forced through the origin. The text needs to be revised to reflect the fact that the best line is not forced through the origin.	The calculations were done as described in the text. Figure 3 has been replaced to reflect the calculations performed as described in the text.
3.	A statistical analysis shall be performed in accordance with the EPA SW-846. As noted in the Revised Report, SW-846 suggests a data transformation (i.e., arcsine or square root) to achieve normality when a simple test of comparing the average to the standard deviation fails. It should be indicated in the text whether or not such simple test of comparison has indeed failed according to the EPA SW-846 and, if so, whether an arcsine or a square root data transformation is appropriate according to EPA SW-846. The statistical analysis may not be deviated from the EPA SW-846.	Table 4 has been revised to include the results of the simple test for normality as described in EPA-SW846. Where indicated by the results, the data were transformed using a square root transformation. Summary statistics, UCL, and threshold comparisons are included in Table 4 for transformed data and data that did not require transformation.
ADDITIONAL RECURRING COMMENTS		
1	Boring identification (1 through 10) on Figure 3 should be revised as SB1 through SB10.	Figure 3 was revised to reflect boring identifications consistent with the text (SB1 through SB10).
2	The two-tailed 90-percent total lead UCL and corresponding soluble lead concentrations should be indicated in the text.	The text was revised to include the 95% one-tail (same as 90% two-tailed) UCLs for square root transformed total lead and square root transformed soluble lead. Additionally, the text includes a comparison of the 95% UCL to the square root transformed regulatory thresholds.

Home Depot - Signal Hill
Response to October 15, 2004, December 27, 2004, and February 11, 2005 Cal-Trans Comments

Comment Number	Cal-Trans Comment	ENVIRON Response
3	In a memorandum to the Permits dated December 17, 2001, as part of reviewing an encroachment permit No. 701-6MC-2681, the OEEFS has previously requested sampling and testing of yellow striping to determine its appropriate removal and handling. Based on the review of the current plans dated September 22, 2004, the removal of yellow striping is still proposed, however, the required sampling and testing as well as the recommendations for proper removal and handling have not been received or reviewed by the OEEFS.	According to a memo from ENVIRON to Mr. Steve Chan and Mr. Surya Mantravadi of Cal-Trans dated February 26, 2002, it was ENVIRON's understanding that Cal-Trans had waived the requirement for sampling of the existing yellow pavement markings, and that the material would be managed, contained, sampled, and appropriately disposed at the time of its removal by the contractor. Mr. Chan signed this memo and returned it, signed, to ENVIRON on February 27, 2002.
REVIEW OF ENCROACHMENT PERMIT PROJECT BY STEVE CHAN		
1	Figure 2 is not revised as stated in the Response Letter. A revised Figure 2 should be included as requested in the previous comment letter dated October 15, 2004.	Based on a discussion with Mr. Andrew Yoon of the Department of Transportation (DOT) on January 12, 2005, Figure 2 was revised to correct the sample location names.
2	According to Table 4 in the Revised Report, the statistical analysis resulted in an average total lead concentration of 29.82 mg/kg with a standard deviation of 54.70. A variance for the given set of samples is calculated as the standard deviation squared or 2992.09 indicating that the average, or the mean, is less than the variance. According to the U.S. Environmental Protection Agency SW-846, an arcsin transformation is suggested to achieve normality (see Volume Two, Chapter 9, Sampling Plan) when a mean is less than the variance, or in a negative binomial distribution. In addition, reverse transformation should be performed and 95-percent (one-tailed) upper confidence limits (UCLs) for total lead should be indicated in the text in mg/kg.	Table 4 has been revised and new calculations performed. Based on a conversation with Mr. Andrew Yoon on January 12, 2005, in strict compliance with SW846, and contrary to the October 15 comments, variance was compared to the average to ascertain normality and identify a transformation, if appropriate. Table 4 reflects these calculations. At the suggestion of Mr. Yoon, the 95% UCLs were calculated with the transformed data and then reverse transformed for comparison to the regulatory thresholds. The 95% UCL for total lead (50.5 mg/kg) is included in the text.
3	Statistical Summary in Table 4 does not include correct analytical results for soluble lead. Table 4 indicates that soluble lead was detected in 52 of the samples of a total of 54 samples tested, which contradicts the statement in Section 5.1. In addition, the minimum and maximum concentrations for the soluble lead are not correctly indicated in Table 4. The average value for the set of soluble lead samples presented in Table 4 does not seem to have been correctly presented as a result. It is recommended that the predictable soluble lead be calculated based on the regression analysis (regression equation).	The summary results for soluble lead were revised in Table 4 to include only test results and not estimates based on the regression. At the direction of Mr. Andrew Yoon, the 95% UCL for soluble lead (1.8 mg/l) was calculated by applying the equation [soluble lead = total lead x 0.0357] derived from the regression of soluble lead on total lead to the 95% UCL for total lead (50.5 mg/kg).

Home Depot - Signal Hill
Response to October 15, 2004, December 27, 2004, and February 11, 2005 Cal-Trans Comments

Comment Number	Cal-Trans Comment	ENVIRON Response
4	Although roadway excavation is not proposed in the plans, clearing and grubbing will be required, which would involve handling of soils contaminated with aerially deposited lead (ADL). A health and safety plan should be prepared and implemented throughout the construction phase to address the potential health concerns regarding handling of ADL contaminated soil. Should the construction activities result in any excess soil potentially contaminated by ADL, such material shall be properly handled and disposed of off-sites as non-RCRA waste. Handling and disposal of such excess soil shall also be addressed in the construction contract.	It is our understanding, based on a conversation between Steve Chan of the DOT and Barney Michalchuk of Greenberg Farrow that the health and safety plan is not required with this re-submittal and will be prepared and provided to the DOT by the environmental contractor at a later date.
5	Standard special provisions for clearing and grubbing, Health and Safety Plan/Land Compliance Plan and Excavation and Transportation Plan for managing ADL contaminated soils in construction can be provided upon request.	If needed, the environmental contractor will request a copy of these special provisions from the DOT.
COMMENTS PROVIDED BY STEVE CHAN 2-11-05 (Cal-Trans)		
1	Figure 3 previously depicted a best-fit line without forcing it through the origin, which was considered a correct approach. However, in the Revised Report, Figure 3 has been revised to depict best-fit line forced through the origin, resulting in a different regression equation for soluble lead. Figure 3 should be revised without forcing the best-fit line through the origin and a regression equation should be obtained to correctly estimate the concentration of soluble lead at 95-percent upper confident limit (UCL).	Figure 3 has been revised to reflect a best-fit line with a calculated y-intercept. The slope of the line is 0.0437 kg/L with a y-intercept of negative 1.5136 mg/l. Table 4 reflects the change in the best fit line, with a calculated 95% UCL for soluble lead of 0.69 mg/L (0.0437kg/l * 50.5 mg/kg – 1.5136 mg/l). The text has been edited to reflect the change in calculations.
2	On page 2, last paragraph: The UCL, noted in the 1st sentence should be revised to 95%, not 80%.	The text has been edited to reflect 95% UCL.

Notes:

OEEFS = Office of Environmental Engineering and Feasibility Studies

APPLICANT HOME DEPOT USA, INC.

PERMIT NO 6TH REVIEW 704-6MC-0395

DATE ~~2-15-05~~ (2-28-05)

DIST / CO / RTE / PM 07-LA-405-6.1

Your comments and recommendations are requested regarding an encroachment permit application

TYPE OF WORK WIDEN / RE-ALIGN OFF-RAMP

REVIEW NEEDED BY ~~2-22-05~~ (ASAP)

REVIEW UNITS

Traffic ( )	Traf-Elect ( )
Traf-Inv ( )	Traf-Design ( )
Hydra ( )	Design ( )
R/W Util. ( )	R/W Eng ( )
Struct. ( )	Landscape ( )
Inspector ( )	Environmental HAZ. WASTE
Maint. ( )	OPPD ( )
Geotech Inv ( )	Other MATERIALS K. STAHL

Last BENNY DIWA PERMIT OFFICE

THIS APPLICATION IS BEING REVIEWED SEPARATELY BY EACH UNIT

CHARGE ALL TRAVEL TIME TO E.A. BELOW

CHARGE	EA	SUBJOB	ACT
	937700		2062 Supv 2063 Non-Supv

CHARGE ALL REVIEW TIME TO E.A. BELOW

CHARGE	EA	SUBJOB / SP. DESIG.	ACT
	937700	3EPPR	2037

THERE IS ADDITIONAL INFORMATION AVAILABLE IN PERMIT FILE ___ YES ___ NO

BESIDES THOSE LISTED, WHO ELSE SHOULD REVIEW THIS APPLICATION?

REVIEW TIME CHARGED 16. HOURS

PERMIT RECOMMENDED

✓ YES

___ NO

___ Need more information (explain)

RESPONSIBLE UNIT

PERMIT ENGINEERING EVALUATION REPORT REQUIRED

___ NO (No adverse impact on highway operations or maintenance). DATE

BY _____, SR. TRANSP. ENGR ___/___/___ DATE

___ YES ___ ATTACHED **EST. COMPLETION DATE OF PEER** / /

REMARKS: (Include necessary changes, required conditions, etc.)

SEE ATTACHED CONDITIONAL APPROVAL MEMORANDUM (03/01/05).

RECEIVED
FEB 28 2005
AT

*** PLEASE RETURN REVIEWS TO ROOM 112 ***

REVIEWED BY	UNIT CODE	BUSINESS PHONE	DATE
ANDREW YOON	07-333	897-7695	03/01/05
CONCURRED BY	**UNIT CODE**	**BUSINESS PHONE**	**DATE**
STEVE CHAN, STE	07-333	897-3646	03/01/05.

Y.W. 09/06/2001