**FOR CONTRACT NO.: 07-4Y6904**

# INFORMATION HANDOUT

# MATERIALS INFORMATION

LEAD INVESTIGATION REPORT

FOUNDATION RECOMMENDATION

**ROUTE: 405-LA-1.2, 2.3**

**FOR CONTRACT NO.: 07-4Y6904**

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LEAD INVESTIGATION REPORT

**ROUTE: 405-LA-1.2, 2.3**

# 1035.

**DIAZ•YOURMAN**

& ASSOCIATES

*Geotechnical Services*

A Report Prepared for:

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**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

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## 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.

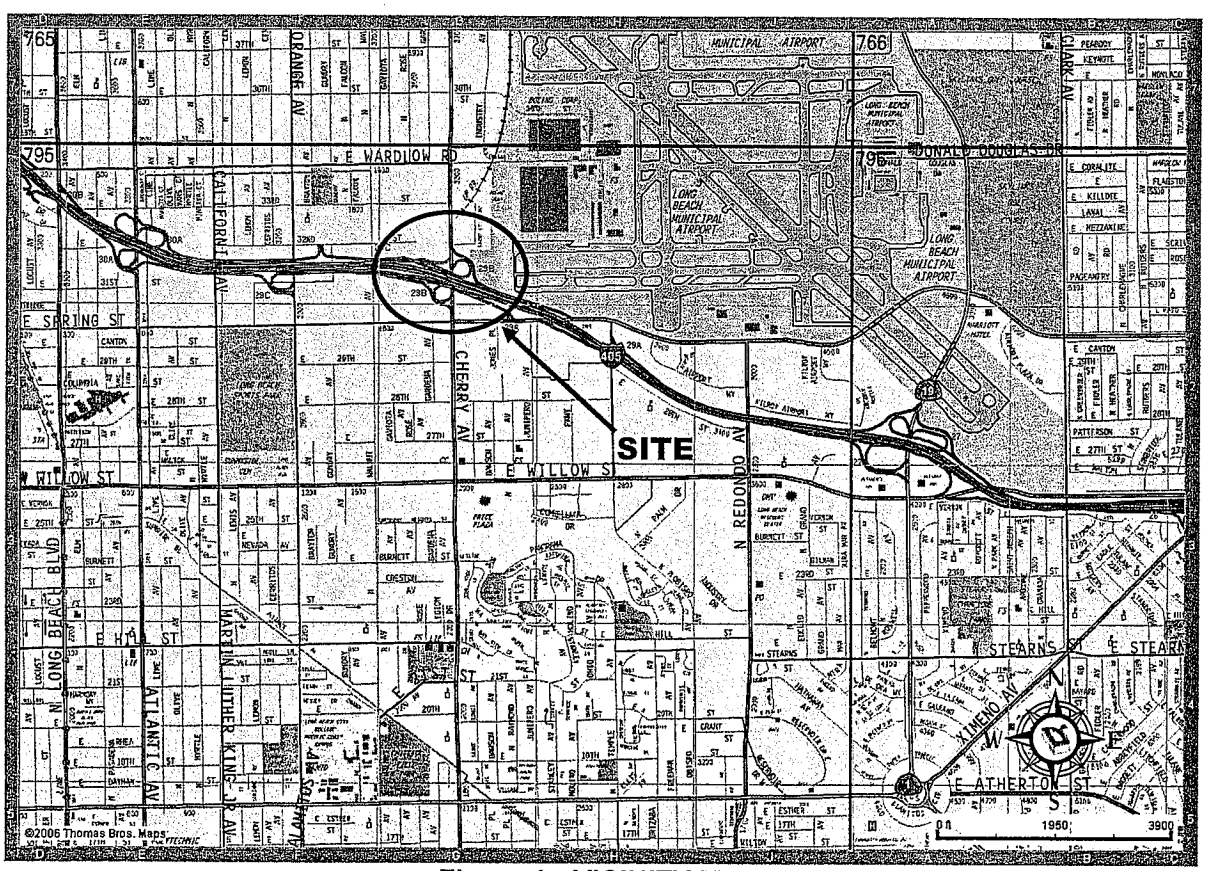


**Figure 1 - VICINITY MAP**

## 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.

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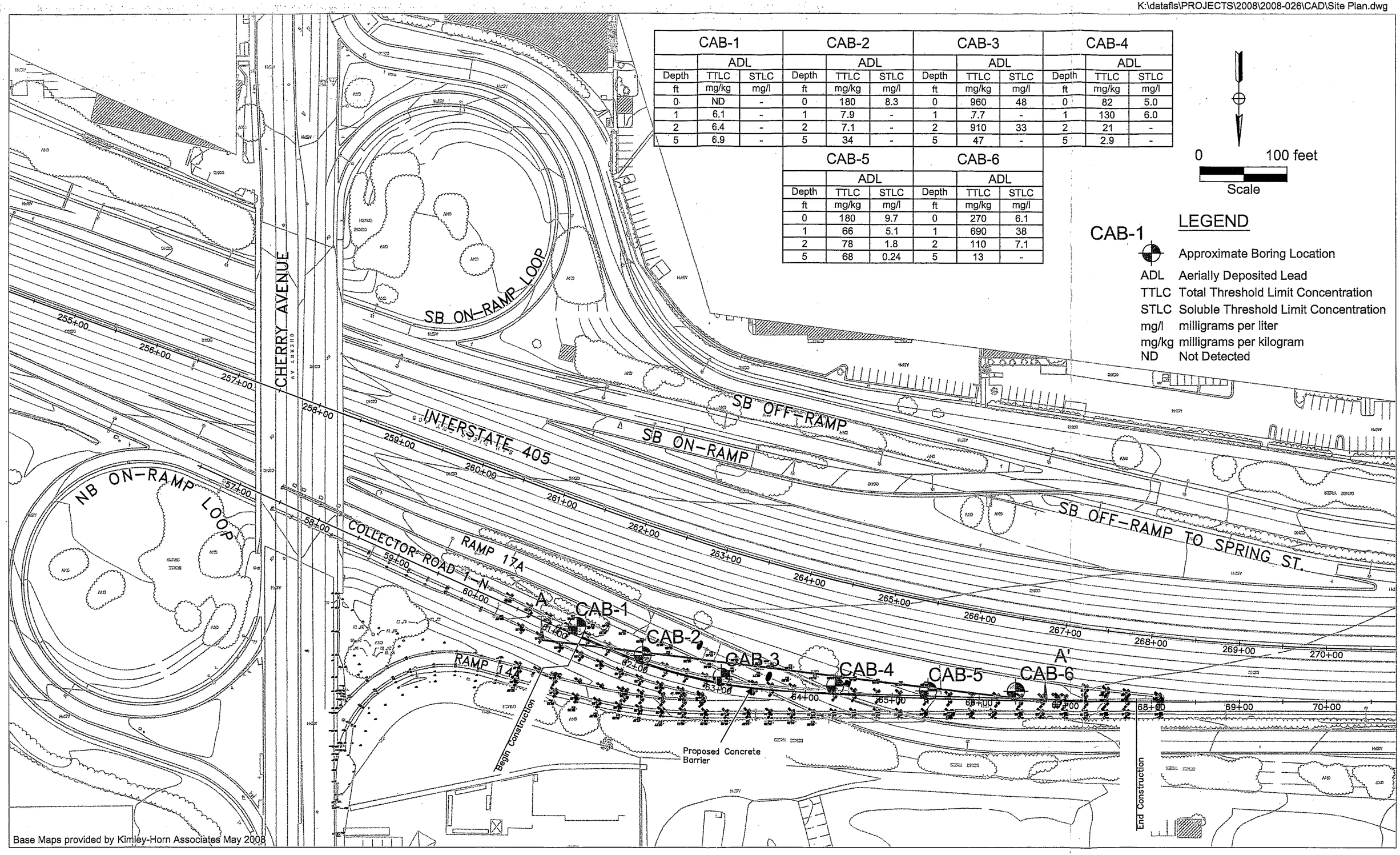
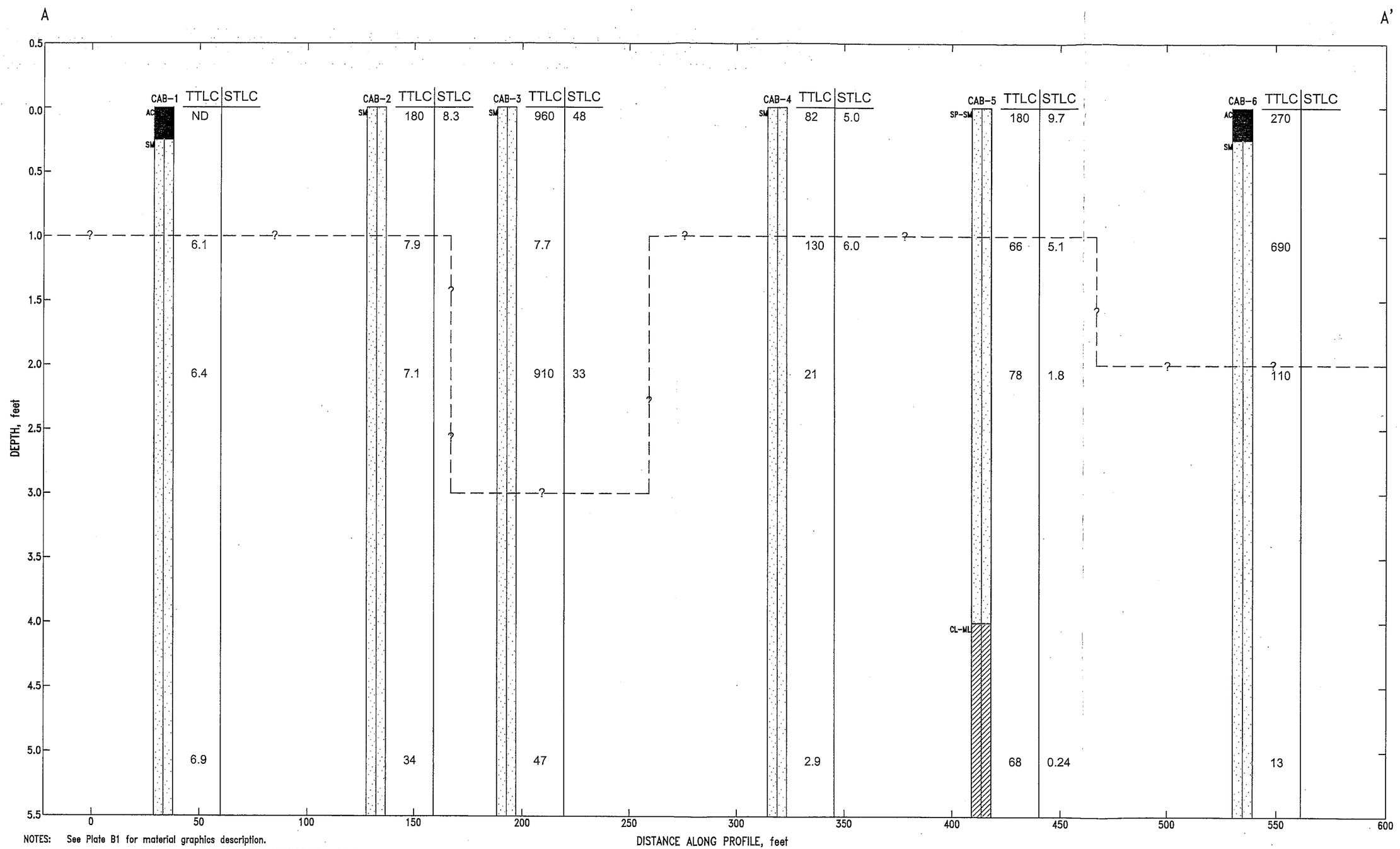



| CAB-1 | | | CAB-2 | | | CAB-3 | | | CAB-4 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | ADL | | | ADL | | | ADL | | | ADL | |
| Depth | TTLC | STLC | Depth | TTLC | STLC | Depth | TTLC | STLC | Depth | TTLC | STLC |
| ft | mg/kg | mg/l | ft | mg/kg | mg/l | ft | mg/kg | mg/l | ft | mg/kg | mg/l |
| 0 | ND | - | 0 | 180 | 8.3 | 0 | 960 | 48 | 0 | 82 | 5.0 |
| 1 | 6.1 | - | 1 | 7.9 | - | 1 | 7.7 | - | 1 | 130 | 6.0 |
| 2 | 6.4 | - | 2 | 7.1 | - | 2 | 910 | 33 | 2 | 21 | - |
| 5 | 6.9 | - | 5 | 34 | - | 5 | 47 | - | 5 | 2.9 | - |

| CAB-5 | | | CAB-6 | | |
|---|---|---|---|---|---|
| | ADL | | | ADL | |
| Depth | TTLC | STLC | Depth | TTLC | STLC |
| ft | mg/kg | mg/l | ft | mg/kg | mg/l |
| 0 | 180 | 9.7 | 0 | 270 | 6.1 |
| 1 | 66 | 5.1 | 1 | 690 | 38 |
| 2 | 78 | 1.8 | 2 | 110 | 7.1 |
| 5 | 68 | 0.24 | 5 | 13 | - |

**Figure 2 - SITE PLAN**




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 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.

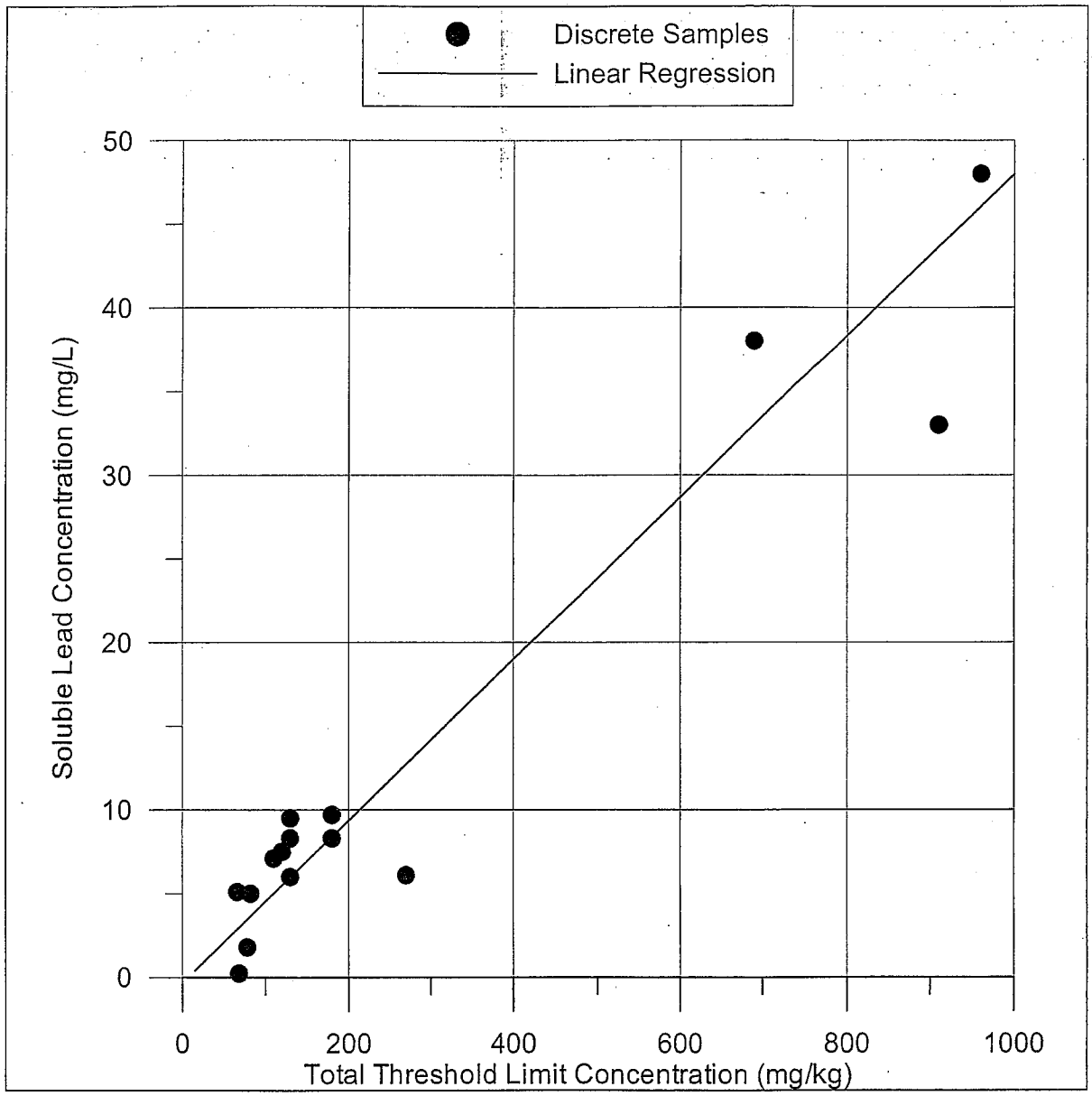



**Figure 4 - CORRELATION OF TOTAL LEAD TO SOLUBLE LEAD**

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.

## 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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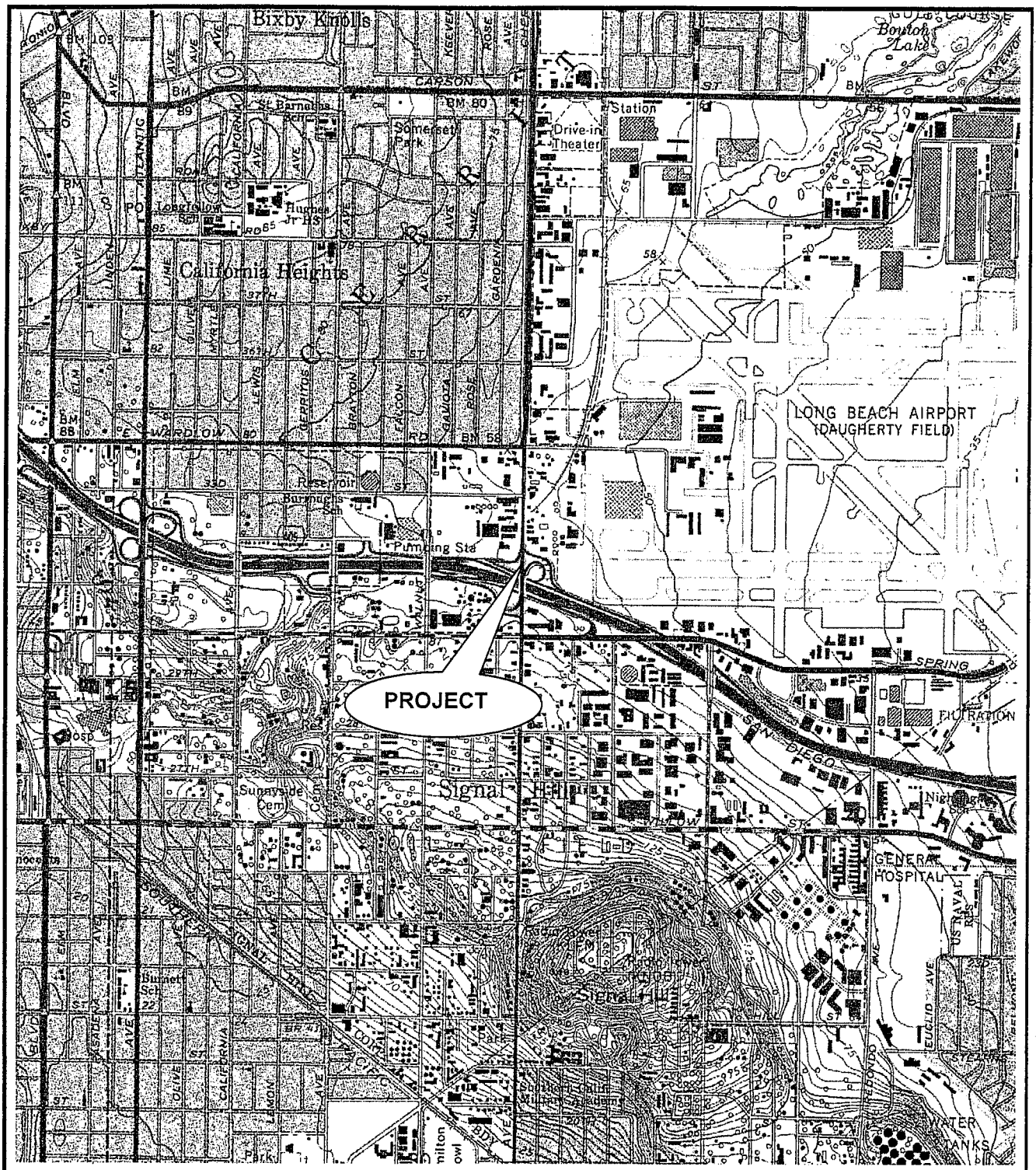
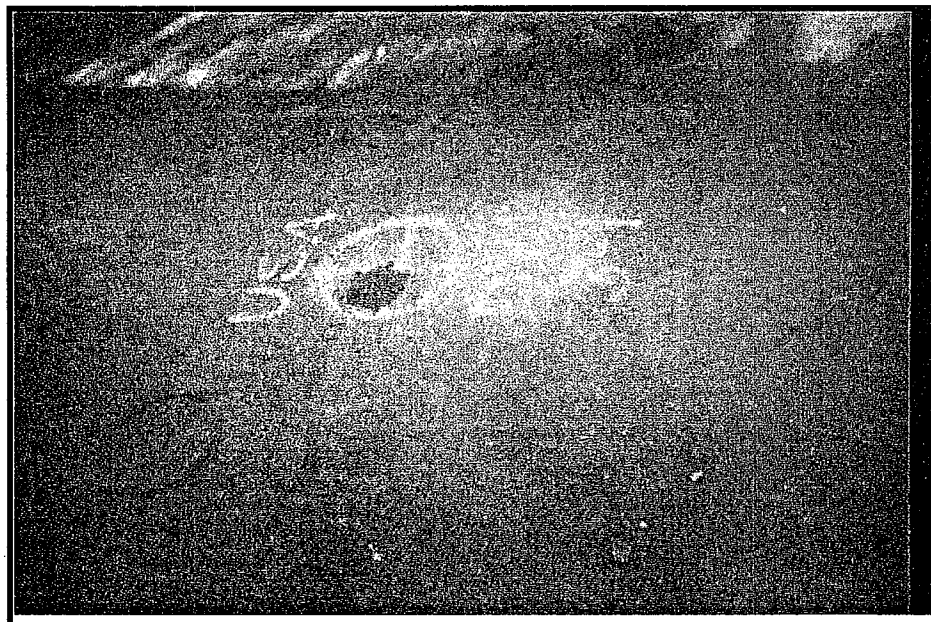
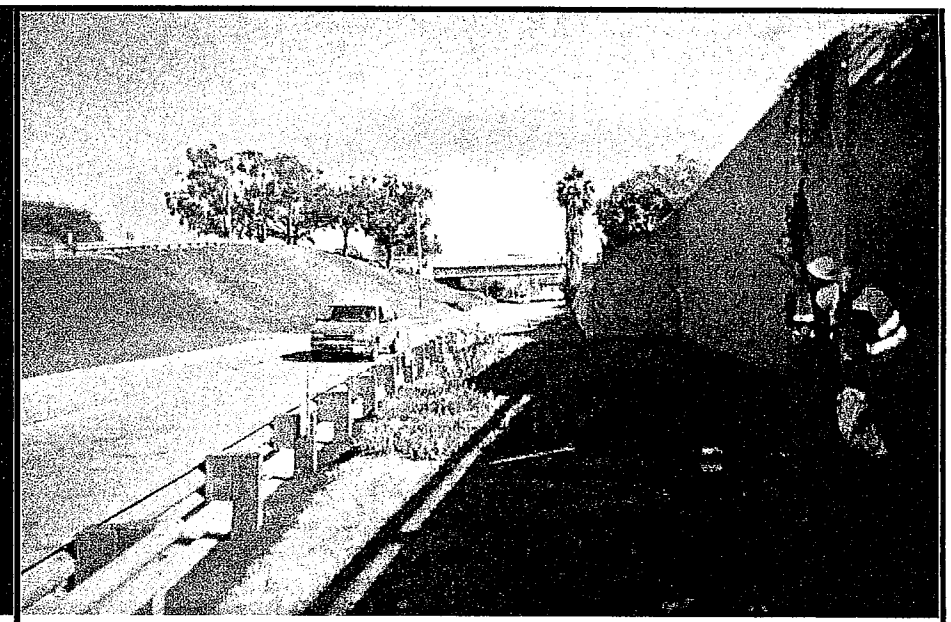



DIAZ YOURMAN & ASSOCIATES
1616 E. SEVENTEENTH ST.
SANTA ANA, CA 92705
PROJECT NO. 220-05

**TOPOGRAPHIC MAP- FLOWER ST. / USC**
Cherry Avenue / 405 Freeway Interchange
USGS Hollywood, CA 7.5 Quad., 1964, revised 1981

↑N





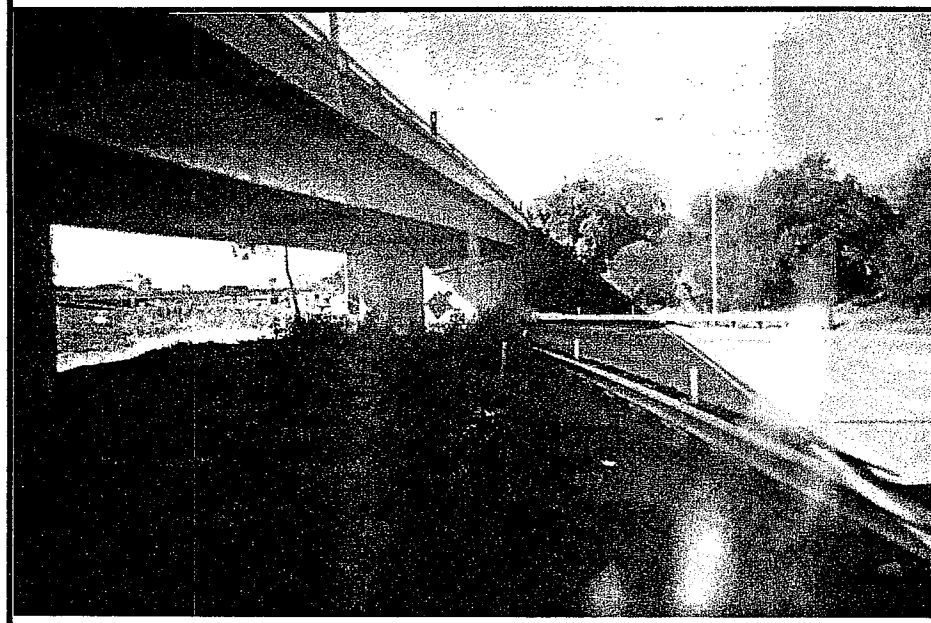


Photo 1:

View from the south of Boring Location CAB-1.

Photo 2:

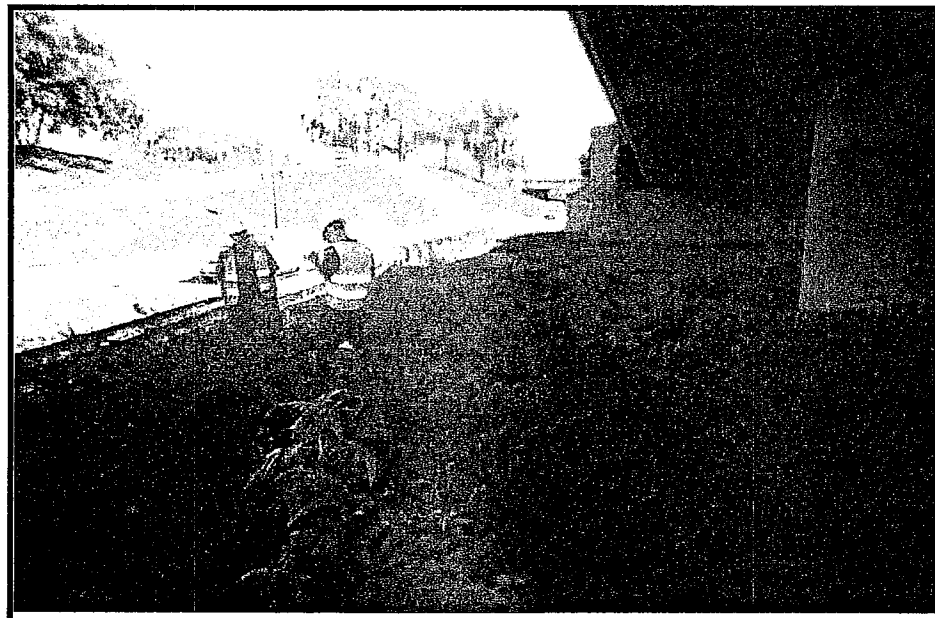
View from the west of Boring Location CAB-2.

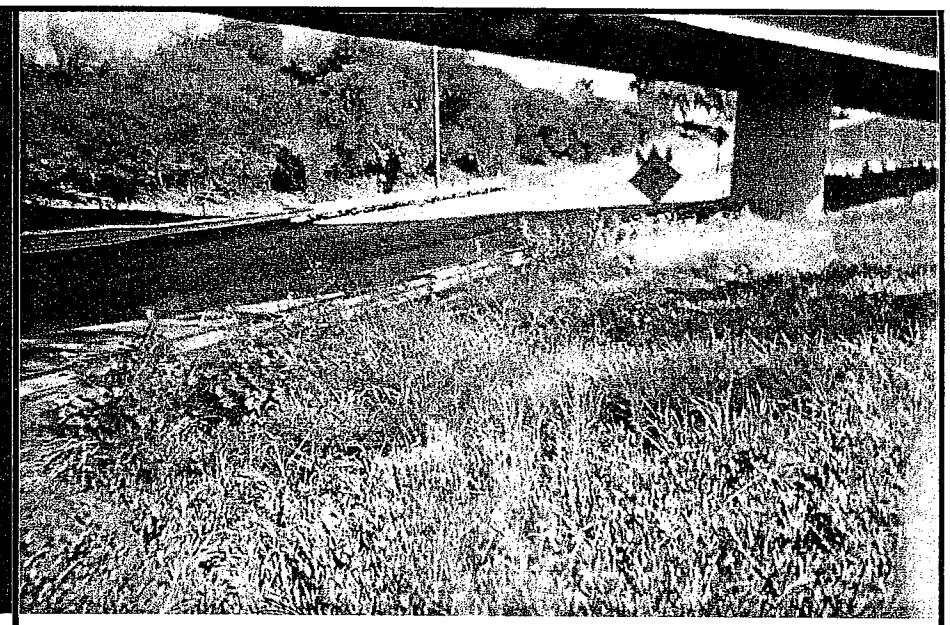
Photo 3:

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**





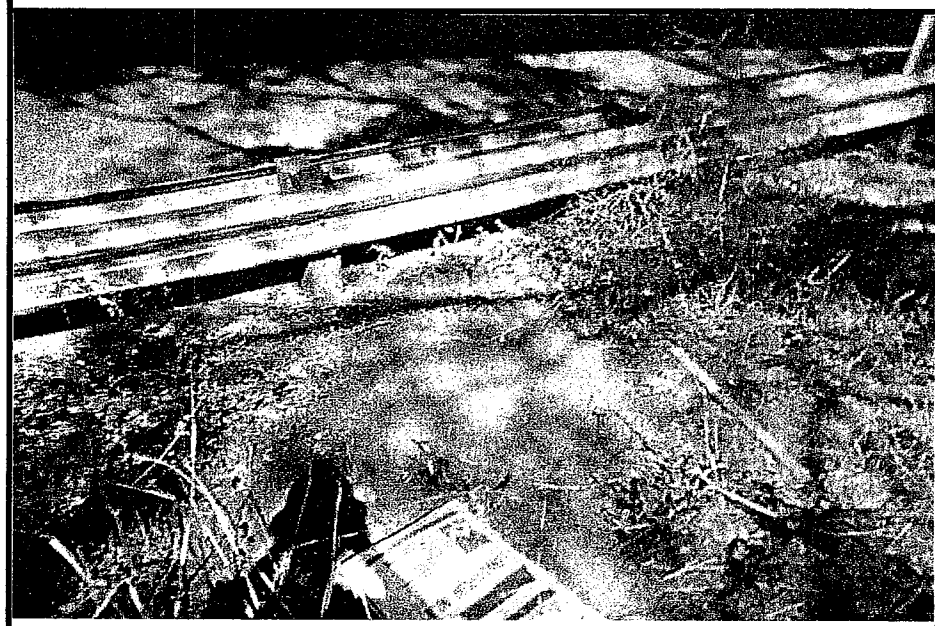


Photo 4:

View from the west of Boring Location CAB-3.

Photo 5:

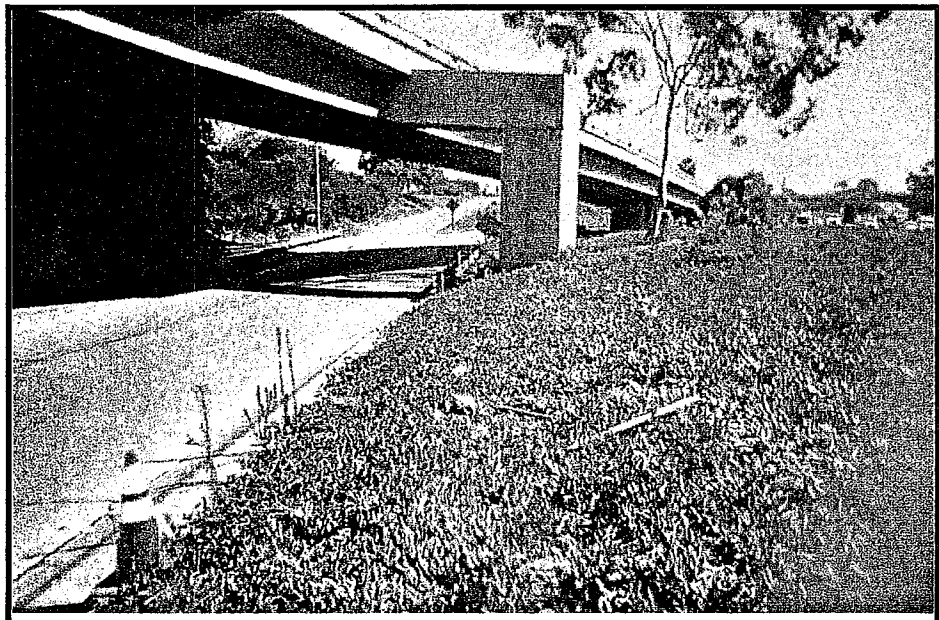
View from the west of Boring Location CAB-4.

Photo 6:

View from the south of Boring Location CAB-4.

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

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



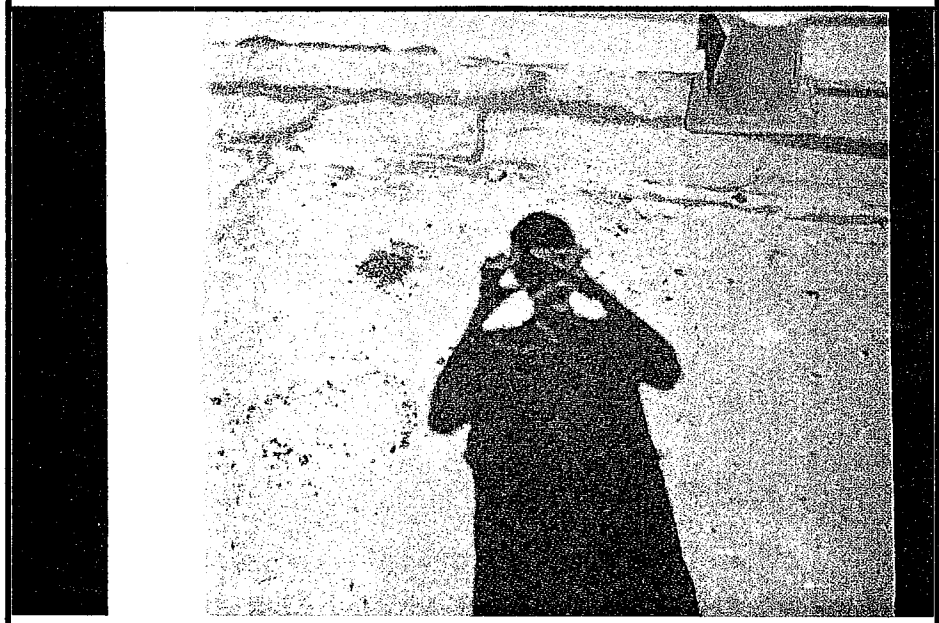


Photo 7:

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<br>MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE | GRAVEL AND GRAVELLY SOILS<br>MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE | 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 |
| | | GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES) | | GM | SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES |
| | | | | GC | CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES |
| | SAND AND SANDY SOILS<br>MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE | 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 |
| | | SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES) | | SM | SILTY SANDS, SAND - SILT MIXTURES |
| | | | | SC | CLAYEY SANDS, SAND - CLAY MIXTURES |
| FINE-GRAINED SOILS<br>MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE | 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 |
| | 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.<br>Groundwater not encountered during drilling.<br>Boring backfilled with bentonite chips to 1 foot bgs, then to surface with cuttings. | | | | | | |
| 30 | | | | | | | | | | | | | |
| | 10 | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | |

# LOG OF BORING CAB-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] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | SILTY SAND (SM): brown, dry, fine- to medium-grained sand | | | | | | [0] |
| | | | | | | | moist | | | | | | [0] |
| | | | | | | | | | | | | | [0] |
| 40 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | | | | [0] |
| | | | | | | | Bottom of boring at 5.5 feet.<br>Groundwater not encountered during drilling.<br>Boring backfilled with bentonite chips to 1 foot bgs, then to surface with cuttings. | | | | | | |
| 35 | | | | | | | | | | | | | |
| | 10 | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | |

# LOG OF BORING CAB-2



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] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | SILTY SAND (SM): brown, dry, fine- to medium-grained sand | | | | | | [0] |
| | | | | | | | moist | | | | | | [0] |
| | | | | | | | | | | | | | [0] |
| 40 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | | | | [0] |
| | | | | | | | Bottom of boring at 5.5 feet.<br>Groundwater not encountered during drilling.<br>Boring backfilled with bentonite chips to 1 foot bgs, then to surface with cuttings. | | | | | | |
| 35 | | | | | | | | | | | | | |
| | 10 | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | |

# LOG OF BORING CAB-3



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] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | SILTY SAND (SM): brown, dry, fine- to medium-grained sand | | | | | | [0] |
| | | | | | | | moist | | | | | | [0] |
| | | | | | | | | | | | | | [0] |
| 40 | | | | | | | | | | | | | [0] |
| | 5 | | | | | | | | | | | | [0] |
| | | | | | | | Bottom of boring at 5.5 feet.<br>Groundwater not encountered during drilling.<br>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' 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] |
| | | | | | | | SILTY SAND (SM): brown, moist, fine-grained sand | | | | | | |
| 45 | | | | | | | | | | | | | [0] |
| | | | | | | | | | | | | | [0] |
| | 5 | | | | | | | | | | | | [12] |
| | | | | | | | Bottom of boring at 5.5 feet.<br>Groundwater not encountered during drilling.<br>Boring backfilled with bentonite chips to 1 foot bgs, then to surface with cuttings. | | | | | | |
| 40 | | | | | | | | | | | | | |
| | 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

TestAmerica
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: | IRJ1808 | Received: 10/14/08 |
| Attention: Gary Gilbert | | | |

| 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

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.*

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

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

# 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 %* | | | | |

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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

# 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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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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## 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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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: IRJ1808-34 (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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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: IRJ1808-34 (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 %* | | | | |

**TestAmerica Irvine**

Lena Davidkova
Project Manager

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1616 East 17th Street
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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: IRJ1808-35 (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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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: IRJ1808-35 (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 %* | | | | |

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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)** | | | | | | | | |
| **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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Lena Davidkova
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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) - 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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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

# 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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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: IRJ1808-22 (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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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: IRJ1808-22 (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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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: IRJ1808-31 (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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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

## 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 %* | | | | |

**TestAmerica Irvine**

Lena Davidkova
Project Manager

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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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# 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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Attention: Gary Gilbert

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: IRJ1808-08 (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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Attention: Gary Gilbert

Project ID: Cherry Ave / 2008-026
Cherry Ave / 2008-026
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Sampled: 10/14/08
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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
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Report Number: IRJ1808

Sampled: 10/14/08
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# 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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|---|---|---|---|---|---|---|---|---|
| **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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|---|---|---|---|
| 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 | | | |

## 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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Project Manager

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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 | | | |

## METHOD BLANK/QC DATA

## 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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| 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 | | | |

## 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: 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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| 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 | | | |

## 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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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 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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|---|---|---|---|
| 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 | | | |

## 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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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)** | | | | | | | | | | |
| 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 | | | |

TestAmerica Irvine

Lena Davidkova
Project Manager

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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 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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Lena Davidkova
Project Manager

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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 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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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 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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Lena Davidkova
Project Manager

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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 | | | |

## 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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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)** | | | | | | | | | | |
| 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 | | | | | | | |

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Lena Davidkova
Project Manager

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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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| | | | |
|---|---|---|---|
| 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 | | | |

## 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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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** | | | | | | | | | | |
| **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 | |

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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** | | | | | | | | | | |
| **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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Project Manager

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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 | | | |

# 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)** | | | | | | | | | | |
| 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 | | | | | | | |

TestAmerica Irvine

Lena Davidkova
Project Manager

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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: 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 | | | | | | | |

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Project Manager

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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 | | | |

## 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 | | | |

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Project Manager

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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: 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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Project Manager

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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: 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 | | | |

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Project Manager

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1616 East 17th Street
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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** | | | | | | | | | | |
| **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 | |

TestAmerica Irvine

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Project Manager

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

# 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 | | | |

**TestAmerica Irvine**

Lena Davidkova
Project Manager

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TestAmerica
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: | IRJ1808 | Received: 10/14/08 |
| Attention: Gary Gilbert | | | |

# 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 | | | *M1* |
| Zinc | 76.8 | 5.0 | mg/kg | 50.0 | 2.66 | 148 | 75-125 | | | *M1* |
| **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 | *M1* |
| Zinc | 74.9 | 5.0 | mg/kg | 50.0 | 2.66 | 145 | 75-125 | 2 | 20 | *M1* |
| **Batch: 8J23167 Extracted: 10/23/08** | | | | | | | | | | |
| **Blank Analyzed: 10/24/2008 (8J23167-BLK1)** | | | | | | | | | | |
| Lead | ND | 2.0 | mg/kg | | | | | | | |

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Project Manager

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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 | | | |

# 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.

**TestAmerica Irvine**

Lena Davidkova
Project Manager

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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 | | | |

## 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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Lena Davidkova
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013(1007)

# 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

IRJ1808 Page 1 of 3

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:

Analysis Required

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date | Sampling Time | Preservatives | 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 | | | | | |
| B-1 @ 1' | | | | | 2:47 | | 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: | Date/Time: | Received By: | Date/Time: | Turnaround Time: (Check) |
|---|---|---|---|---|
| Gary J Hulbert | 5:25 pm 10/14/08 | | | same day ____ 72 hours ____ |
| Relinquished By: | Date/Time: | Received By: | Date/Time: | 24 hours ____ 5 days ____ |
| | | | | 48 hours ____ normal ____ |
| Relinquished By: | Date/Time: | Received in Lab By: | Date/Time: | Sample Integrity: (Check) |
| | | | 10/14/08 17:25 | 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

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013(1007)

## CHAIN OF CUSTODY FORM

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2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

IRJ1808



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

Project/PO Number: Cherry Ave 2008-026

Project Manager: Gary Gilbert

Phone Number: 714 249 2920

Sampler:

Fax Number:

Analysis Required

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date | Sampling Time | Preservatives | Lead 6010 | 8015 TPH gas TPH diesel | VOC 8260 | metals 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 J 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 ✓ |
| Relinquished By: | Date/Time: | Received in Lab By: | Date/Time: | Sample Integrity: (Check) |
| | | | 10/14/08 17:25 | 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.

DMCOC

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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

# TestAmerica
ANALYTICAL TESTING CORPORATION

## CHAIN OF CUSTODY FORM

IRJ1808



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 Gold | 8015 - TPH gasoline TPH 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 | 1-liter glass amber 3-40 ml VOC 500 milliliter 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: | Received By: | Date/Time: | Turnaround Time: (Check) |
|---|---|---|---|---|
| [signature] | 10/14/08 5:25 pm | | | same day ____ 72 hours ____ |
| Relinquished By: | Date/Time: | Received By: | Date/Time: | 24 hours ____ 5 days ____ |
| | | | | 48 hours ____ normal ____ |
| Relinquished By: | Date/Time: | Received in Lab By: [signature] | Date/Time: 10/14/08 17:25 | Sample Integrity: (Check) intact X on ice 8.2/5.4 |

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THE LEADER IN ENVIRONMENTAL TESTING
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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

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: 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 |

TestAmerica Irvine

Lena Davidkova
Project Manager

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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: IRJ3133

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

# 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 | |

TestAmerica Irvine

Lena Davidkova
Project Manager

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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: IRJ3133

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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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: IRJ3133

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: IRJ3133-11 (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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Santa Ana, CA 92705-8509
Attention: Gary Gilbert

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

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

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

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

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

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

## TCLP EXTRACTION - Metals

| Analyte | Method | Batch | Extraction Start Date | Extraction End Date | Data Qualifiers |
|---|---|---|---|---|---|
| **Sample ID: IRJ3133-01 (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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| 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 | | | |

# 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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|---|---|---|---|
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| 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. | | | |

## 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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| | | | |
|---|---|---|---|
| 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 | | | |

# 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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Santa Ana, CA 92705-8509
Attention: Gary Gilbert

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

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

# 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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|---|---|---|---|
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| 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 | | | |

## 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 |

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|---|---|---|---|
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| 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

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THE LEADER IN ENVIRONMENTAL TESTING

1-2

IRJ3133

17461 Derian Avenue, Ste. 100 Irvine, CA 92614 (949) 261-1022 FAX (949) 261-1228

Add on! See COO attached!

# ADDITIONAL ANALYSIS REQUEST FORM

Date: 10/31 Project Manager: Lena Davidkov

Client: Diaz Yorman Contact:

Project: Cherry Ave / 2008-026

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

**Request Via:**

- [ ] Telephone
- [ ] COC Form
- [ ] Fax
- [x] E-mail
- [ ] Other

**Status:**

- [ ] In Progress
- [x] Completed
- [ ] Received Today
- [ ] Received Yesterday
- [ ] On Hold
- [ ] Other

**Turn Around Time:**

- [ ] Same Day
- [ ] 24HR
- [ ] 48HR
- [ ] 3Day
- [x] 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 ppm run TCL | |
| | | pH 9040/9045 | |
| IRJ1808-10 | B-3@0' | Pb-STLC | |
| | | pH 9040/9045 | |
| IRJ1808-12 | B-3@2' | Pb-STLC | MS. 11/03 |
| | | pH 9040/9045 | 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 Yorman Contact:

Project: Cherry Ave / 2008-026

Date Sampled: 10/14 Date Received:

**Request Via:**

- [ ] Telephone
- [ ] COC Form
- [ ] Fax
- [x] E-mail
- [ ] Other

**Status:**

- [ ] In Progress
- [x] Completed
- [ ] Received Today
- [ ] Received Yesterday
- [ ] On Hold
- [ ] Other

**Turn Around Time:**

- [ ] Same Day
- [ ] 24HR
- [ ] 48HR
- [ ] 3Day
- [x] 5Day
- [ ] Standard
- [ ] No Rush Charge

| Work Order Number | Sample Description | Analysis Requested | Special Requirements |
|---|---|---|---|
| 1RJ1808-29 | B-7@1' | Pb-STLC | If STLC > 5 ppm run TCLP |
| 1RJ1808-30 | B-7@2' | Pb-STLC | |

STLC Extraction - Met.

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THE LEADER IN ENVIRONMENTAL TESTING

# 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)

Page 1 of 1

Client Name/Address:
DIAZ-YOURMAN & ASSOC
1626 E. 17th St
Santa Ana, CA 92705

Project/PO Number:
DYA: 2006-026
TA: IRJ1808

Project Manager: Clint Iso

Phone Number: (714) 245-2920
cell - (310) 612-4176
Fax Number: (714) 245-2950

Sampler: Gary Halbert / William Do

Analysis Required

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date | Sampling Time | Preservatives | STLC/TCLP 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

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

## DATA QUALIFIERS AND DEFINITIONS

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

**RPD** Relative Percent Difference

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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 |

*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**

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Project Manager

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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
- [x] E-mail
- [ ] Other

**Status:**

- [ ] In Progress
- [x] Completed
- [ ] Received Today
- [ ] Received Yesterday
- [x] On Hold
- [ ] Other

**Turn Around Time:**

- [ ] Same Day
- [x] 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!

AW 10/10

# 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 ($n_i$)** | | | |
| $\Delta$ = 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 ($n_i$)** | | | |
| $\Delta$ = 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 ($n_i$)** | | | |
| $\Delta$ = 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 |

## DISTRIBUTION

6 copies: Mr. Darren Adrian
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765 The City Drive, Suite 400
Orange, CA 92868

## QUALITY CONTROL REVIEWER

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

CI/GKG/AMY:cfp

**FOR CONTRACT NO.: 07-4Y6904**

# INFORMATION HANDOUT

# MATERIALS INFORMATION

FOUNDATION RECOMMENDATION

**ROUTE: 405-LA-1.2, 2.3**

State of California

Business, Transportation and Housing Agency

# Memorandum

*Flex your power!*
*Be energy efficient!*

**To:** LARRY WIERING – DISTRICT 07
S.T.E. Maintenance Engineering

**Date:** November 10, 2010
**File:** 07-LA-405-PM 1.162
EA 07-4Y6901
Overhead Signs No. 1 & 2

Atten: Vince Pang

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

**Subject:** Revised Foundation Recommendation for Overhead Signs No. 1 & 2 (Final)

## 1.0 INTRODUCTION

The Office of Geotechnical Design South 1 (OGDS-1), Branch B is providing a revised Foundation Report (FR) pursuant to the request by your office on August 10, 2010 for a foundation investigation and recommendations for the proposed overhead signs (Sign No. 1 & 2) to be supported on Cast in Drilled Hole (CIDH) pile foundations. This report replaces the original report dated November 2, 2010. Two signs are located at LA-405 Northbound Bellflower Blvd. UC facing west on E. Willow Street at Post Mile (PM) R2.3 and at LA-405 Northbound Palo Verde Street UC PM 1.2. Pile head loading conditions for the overhead signs were provided by Office of Traffic Design. A site plan of the project site is shown on Figure 1.

## 2.0 SITE DESCRIPTION

The proposed overhead signs are located at LA-405 Northbound just north of Bellflower Blvd. UC retaining wall embankment facing west from E. Willow Street and on Northbound just north of Palo Verde Street UC behind the sound wall. The site is bounded by commercial and residential development on both side of the freeway. The freeway section at both locations is on embankment fill. The fill height is approximately 15 to 20 ft. The elevations of sign posts base plate are as follows: Bellflower Blvd. UC Sign 99.25 ft, Palo Verde Ave. 116.75 ft. The reference elevation is based on edge of shoulder elevation (ES) Elev. 100 ft.(Assumed). Reference Sign Plan S-1 and Sign Details SD-1 &2 are attached in Figure 2.

## 3.0 GEOTECHNICAL INVESTIGATION

The foundation recommendations are based on subsurface information Log of Test Boring (LOTB) for adjacent structures, LA-405 Bellflower Blvd UC (No. 53-1194) and Palo Verde Ave. UC (No. 1190). Reference LOTB in Addendum 1. It should be noted that the report has been prepared without site-pacific subsurface exploration at the sign locations due to site being within close proximity of soil and/or groundwater contamination as confirmed by District Environmental Engineering.

It is strongly recommended that the proposed pile depths be confirmed or revised based on site-specific field exploration (performed by the contractor) at the location of the signs before the commencement of work. One exploratory boring will be performed at each location to verify subsurface conditions. Standard penetration test (SPT) and/or California modified (2 inch brass ring) samples will be collected during the exploration and sent to laboratory for testing if necessary. Also, SPT results will be recorded and used to obtain engineering properties of subsurface material at the pile locations.

### 3.1 Subsurface Conditions:

Based upon LA-405 Bellflower UC LOTBs (May 1961), the project site is on embankment fill to approximately 16 ft. underlain by loose to medium dense fine sand and silty clay to depth of 36 ft and dense to very sense fine to medium sand to depth of approximately 50 ft. At Palo Verde Ave. UC LOTBs (May 1961), the project site is on embankment fill to approximately 18 ft. underlain by loose to medium dense sandy clay and silty clay to depth of 33 ft. and medium dense to dense fine to medium sand to depth of approximately 38 ft. There is clayey silt from 38 ft. to approximately 53 ft. depth. Environmental Engineering information indicates that the project sites are within close proximity of soil and/or ground water contamination area. Standardized Log of Test Borings (LOTB's used for this project will be provided at a laterdate.

### 3.2 Ground Water:

During field exploration in May 1961 ground water was encountered at both sites. Ground water is approximately 21 ft. deep west of E. Willow St. Bellflower Blvd intersection along E. Willow St. At Palo Verde Ave UC, ground water is approximately 24 ft. below LA-405 roadway pavement elevation. Also, the State Department of Water Resources Library website does not show monitoring wells in the area. Ground water monitoring documents submitted to the State Water Resources Control Board Geotracker website indicates that the ground water in the area is most likely about six inches below mean sea level in the vicinity of Bellflower Blvd. and approximately 2 ft. above sea level in the vicinity of Palo Verde Ave.

## 4.0 GEOLOGY

### 4.1 Regional Geology

The project lies within the Peninsular Range Geomorphic Province. The Peninsular Ranges Province is characterized by northwest to southeast trending mountain ranges and faults, which are parallel to and related to the San Andreas Fault.

The site is located within the Los Angeles Basin. The Los Angeles Basin is filled by deposits of alluvial sediment derived from the surrounding hills and mountains. The alluvial sediments are underlain by a thick sequence of primarily Neogene, marine sediments that overlie Mesozoic, crystalline, basement rocks at great depth.

### 4.2 Site Geology

The site is located in the Los Angeles Basin, and is underlain by alluvium derived from the surrounding mountains. The alluvium is composed of interlayered medium dense to dense sands, sandy clay, and silty clay

## 5.0 SEISMICITY

The seismicity for the project was measured from the intersection of Bellflower Blvd. and the 405 Freeway. A $V_{s30}$ of 855 ft/s was calculated based on correlations with SPT data from the 1961 as-built LOTBs for Bellflower Blvd. UC. The controlling faults are the USGS 5% in 50 years probabilistic data from 2008, and the Compton-Los Alamitos Blind Thrust Fault. The Compton-Los Alamitos Blind Thrust is Fault ID 291 in the Caltrans ARS On-line database. It is a reverse fault dipping 20° to the northeast with an $M_{max}$ of 6.8. The rupture distance ($R_{rup}$) is approximately 4.8 miles from the site. A peak ground acceleration of 0.5 is expected at the site.

### 5.1 Liquefaction Potential

Liquefaction is a phenomenon in which loose, saturated fine-grained, granular soils behave like a liquid while being subjected to high-intensity ground shaking. Liquefaction occurs when shallow ground water, low-density, fine, sandy soils and high-intensity ground motion exist in a site.

### 5.2 Sign No. 1 PM 1.2 Palo Verde Ave.

Using the soil exploration in May 1961 LOTB, there is one possibly liquefiable layer present. The liquefiable layer is at approximately 33 ft below roadway pavement elevation and is approximately 5 ft thick. Pile length has been determined taking into account presence of sand below groundwater level.

### 5.2 Sign No. 2 PM 2.3 Bellflower Blvd. UC

Given the predominant clayey silty nature of the subsurface soil beneath the static groundwater level at the site, the potential for Liquefaction is considered to be low.

## 6.0 FOUNDATION RECOMMENDATIONS

### 6.1 Axial and Lateral Pile Capacity Analysis

Palo Verde Ave. Sign No. 1 has been considered to be light weight structure. Therefore, pile diameter is recommended to be 3.0 ft. Sign location is behind existing retaining wall. The wall foundation is on piles with a pile cap. It is recommended that the proposed pile foundation clears the existing pile cap a distance of 2.0 ft. or more.
Bellflower Blvd. Sign No. 2 will be considered as heavy weight sign. The pile diameter will be 5.0 ft.

The axial pile capacity evaluation for the proposed CIDH piles was performed using SHAFT for Windows, V5.0 by ENSOFT Inc. The axial capacity was based on skin friction only which exceeds the nominal resistance. The lateral load-deformation response of single pile was analyzed utilizing the LPILE plus for Windows, V5.0m by ENSOFT Inc. The depth of sign foundation was computed based on the boundary conditions shown in Table 1. Pile data is shown in Table 2. Recommended pile depths are given in Table 3. Maximum bending moments and maximum shear forces computed are presented in Table 4.

**Table 1 – Unfactored Load**

| Sign | Bending Moment at Pile Head (Kip-ft) | Shear Force at Pile Head (Kips) | Design Axial Load (Kips) |
|---|---|---|---|
| Bellflower Blvd | 21.2 Kips-ft. | 3.8 Kips | 2.0 Kips |
| Palo Verde Ave | 300.0 Kips-ft. | 12.8 Kips | 11.7 Kips |

**Table 2- Pile Data**

| Sign | Pile Type | Design Loading (Kips) | Nominal Resistance | | Design Tip Elevation (ft) | Specified Tip Elevation (ft) |
|---|---|---|---|---|---|---|
| | | | Compression (Kips) | Tension (Kips) | | |
| Bellflower Blvd | 3.0' CIDH | 2.0 | 4.0 | N/A | 108 (1)*<br>86 (2)* | 86* |
| Palo Verde Ave | 5.0' CIDH | 11.7 | 23.4 | N/A | 81 (1)**<br>65 (2)** | 65** |

(1) Compression Load
(2) Lateral Loads
* Elev. 100 Datum Point ES at W. Willow St. Pavement at Bellflower Ave. & E. Willow St. Intersection, Reference SD-2
** Elev. 100 Datum Point ES at LA-405 Palo Verde Ave. on-ramp Roadway Pavement, Reference SD-1

Table 3 below summarizes proposed CIDH piles diameter and length for support of subject overhead signs.

**Table 3 - Recommended Pile Depths**

| Sign Post No. | Pile Diameter/ Pile Type | Pile Depth (Length from pile head to pile tip) (feet) |
|---|---|---|
| Bellflower Blvd | 3.0'/ CIDH | 30 |
| Palo Verde Ave | 5.0'/ CIDH | 34 |

Maximum bending moments and maximum shear forces computed are presented in Table 4 below.

**Table 4-Maximum Bending Moments and Maximum Shear Forces**

| Sign Post No. | Max. BM (Kip-ft) | Depth of Max BM below the pile head (feet) | Max. Shear (Kips) | Depth of Max Shear below the pile head (feet) | Maximum lateral pile head deflection (inches) |
|---|---|---|---|---|---|
| Bellflower Blvd | 112 | 12 | 24 | 0 | 0.026 |
| Palo Verde Ave | 145 | 13 | 26 | 0 | 0.003 |

## 7.0 CONSTRUCTION CONSIDERATIONS

Since the recommended pile depth is based upon subsurface conditions from nearby structures, it is strongly recommended that pile depth be confirmed or revised as per site-specific field exploration at the location of the signs before commencement of work.

- As stated above, the site is within proximity of soil and/or groundwater contamination area. It is beyond scope of this report to discuss potential issues due to s ite contamination. Therefore, the District Hazardous Waste Coordinator should address and resolve the issues in advance.

- The contractor shall be required to clean out the bottom of the shaft prior to placing the cage and the concrete.

- Concrete placement for construction of the CIDH piling shall be completed within the same day that excavation of the drilled hole has been completed.

- Caving is anticipated during excavation of the pile boring and during CIDH pile construction. In addition to caving, the contractor must be aware of the presence of water at the proposed sign posts. The contractor must be prepared for mitigation such as using temporary casing, dewatering and/ or slurry displacement construction methods.

- If temporary casing is used, provisions in Section 49-4.03, "Drilled Shaft" of the Standard Specification shall be followed.

- If slurry displacement method is used, requirements in Standard Specifications Section 49-310 must be followed.

- It is recommended that GS representative from our office be onsite during pile construction.

- Project plans and specifications should be reviewed by our office prior to finalization.

If you have any questions or comments, please call Mushtaq Ahmed at 213-620-2132 or Sam Sukiasian at or 213-620-2135.

Prepared by: Date: 11/10/12

Reviewed by: Date: 11/10/10

Mushtaq Ahmed P.E.
Transportation Engineer - Civil
Office of Geotechnical Design – South 1
Branch B

Sam Sukiasian G.E.,
Senior Transportation Engineer
Office of Geotechnical Design – South 1
Branch B

Kristopher Barker, C.E.G.
Engineering Geologist
Office of Geotechnical Design – South 1
Branch B

cc: OGDS1- LA File
OGDS1- Sac. File
GS- Sac. File

## 9.0 REFERENCES

1. Mualchin, "Caltrans California Seismic Hazard Map", 1996.

2. Morton, P.K. and Miller, R.V., "Geologic Map of Orange County California", 1981.

3. Caltrans, Foundation Manual. 1997

4. Caltrans, Seismic Hazard Map, 1996

5. Caltrans, Bellflower UC LOTB (Bridge No. 53-1194)

6. Caltrans, Palo Verde Ave. LOTB (Bridge No. 53-1190)

7. Caltrans, Soil and Rock Logging, Classification, and Presentation Manual.

**Figure 1**

INDEX OF PLANS

STATE OF CALIFORNIA

# DEPARTMENT OF TRANSPORTATION

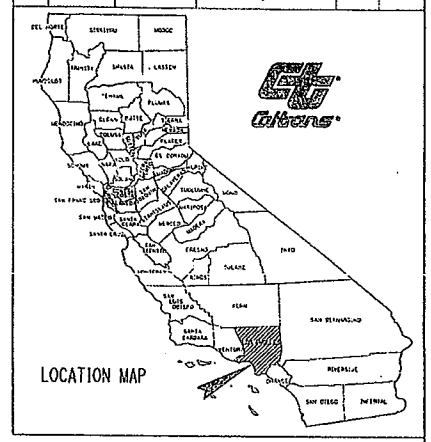
## PROJECT PLANS FOR CONSTRUCTION ON

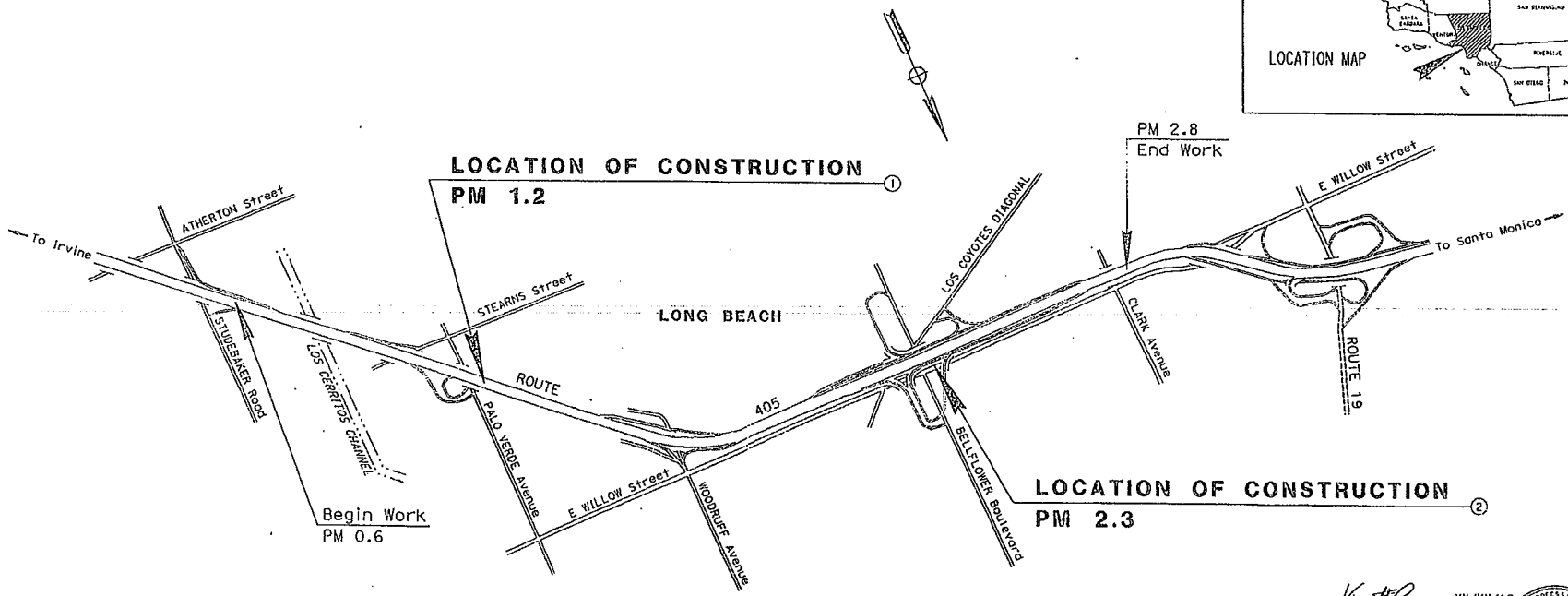
# STATE HIGHWAY

## IN LOS ANGELES COUNTY
## IN LONG BEACH ON WILLOW STREET
## 150 FEET WEST OF BELLFLOWER BOULEVARD AND
## AT 0.05 MILE NORTH OF PALO VERDE AVENUE OVERCROSSING

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 07 | LA | 405 | 1.2, 2.3 | 1 | XX |




| LOCATIONS OF CONSTRUCTION | | |
|---|---|---|
| No. | DESCRIPTION | PM |
| ① | NORTHBOUND ROUTE 405, ON THE RIGHT SHOULDER AT PM 1.15 | 1.15 |
| ② | ON EAST WILLOW STREET, 150 FEET WEST OF BELLFLOWER BOULEVARD | 2.30 |

PROJECT ENGINEER
REGISTERED CIVIL ENGINEER
XX/XX/10
DATE

MONTH XX, 2010
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
VINCENT PANG
No. 69963
Exp. 9/30/10
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

| | |
|---|---|
| CONTRACT No. | 07-4Y6904 |
| PROJECT ID | 0700001890 |

PROJECT MANAGER: CHRISTIAN SAM
DESIGN ENGINEER: VINCENT PANG

THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

DATE PLOTTED => 10-AUG-2010
TIME PLOTTED => 10:46
LAST REVISION 00-00-00

**Figure 2**

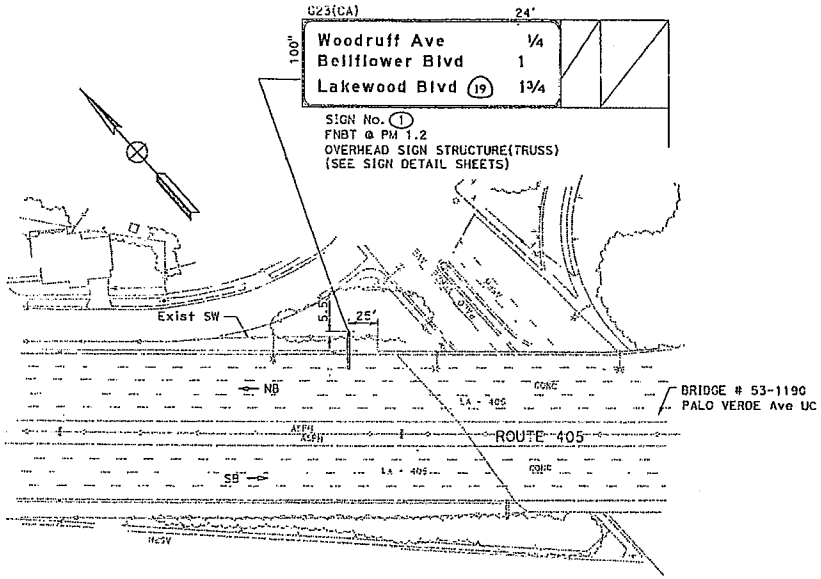
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 07 | LA | 405 | 1.2, 2.3 | X | XX |

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

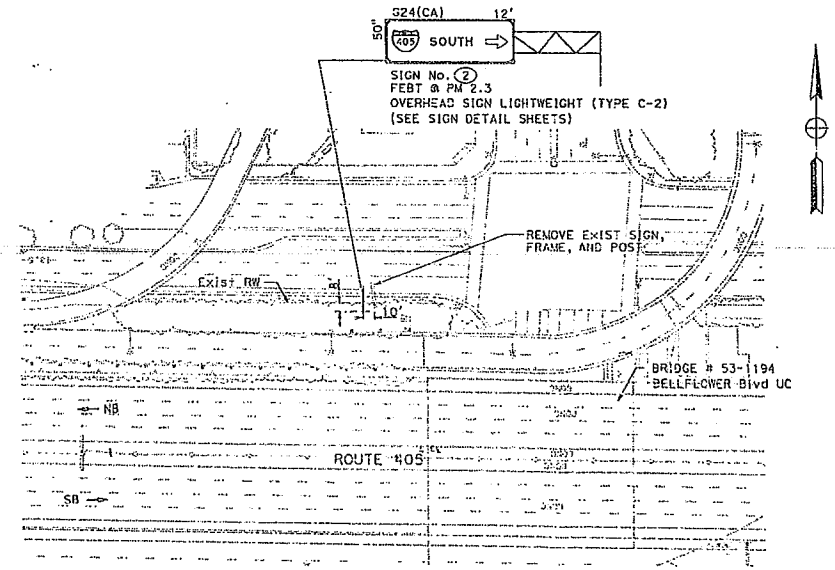
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER ESTHER M. KIM No. 48363 Exp. 6/30/12 CIVIL STATE OF CALIFORNIA




NOTES:

1. SIGN CODE SHALL BE PER CALIFORNIA MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) CODE UNLESS OTHERWISE NOTED ON PLANS.
1. (CA) DENOTES CALIFORNIA CODED SIGNS.




## SIGN PLAN

NO SCALE

S-1

THIS PLAN ACCURATE FOR SIGN WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: MOHAMED CHOWDHURY

CALCULATED-DESIGNED BY: SULIASTI SUTANTO

CHECKED BY: ESTHER M. KIM

REVISED BY

DATE REVISED

BORDER LAST REVISED 7/2/2010

USERNAME => s123486

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 2124

PROJECT NUMBER & PHASE 07000004851

DATE PLOTTED => 06-OCT-2010

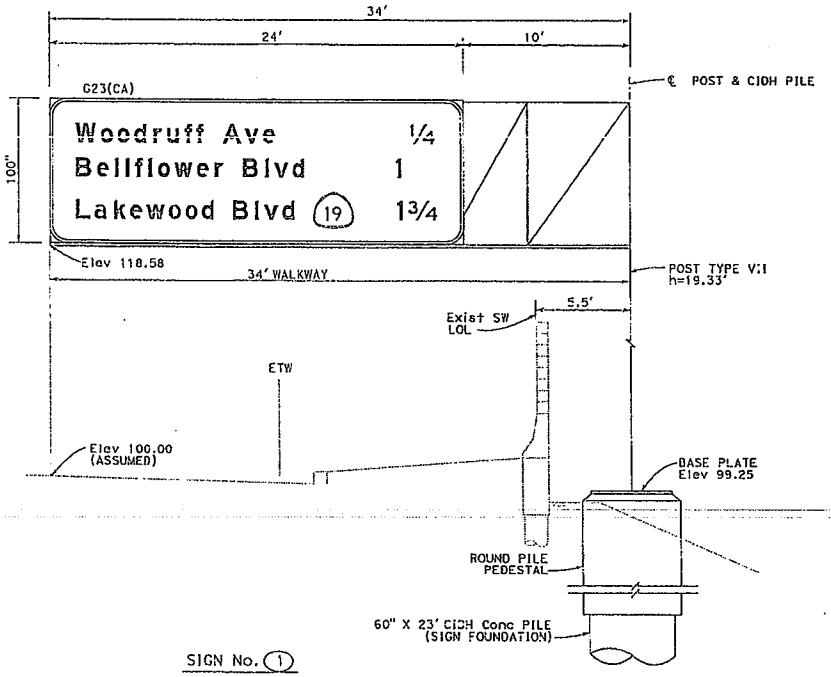
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 07 | LA | 405 | 1.2, 2.3 | X | XX |

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER ESTHER M. KIM No. 48363 Exp. 6/30/12 CIVIL STATE OF CALIFORNIA



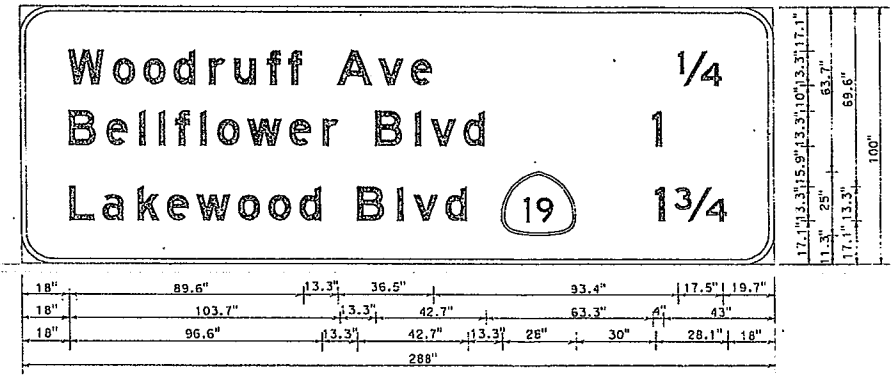

SIGN No. 1

FNBT @ PM 1.2

1. FURNISH AND INSTALL SIGN STRUCTURE (TRUSS), INCLUDING REMOVABLE SIGN PANEL FRAME.
2. INSTALL FORMED SIGN PANEL.
3. ILLUMINATION AND WALKWAY ARE REQUIRED.

NOTES:

1. BASE PLATE ELEVATIONS SHALL BE DETERMINED IN THE FIELD TO PROVIDE A VERTICAL CLEARANCE OF 18.5' MINIMUM FROM BOTTOM OF WALKWAY BEAM OR LIGHTING FIXTURE TO THE ROADBED.
2. THE CONTRACTOR SHALL VERIFY CONTROLLING DIMENSIONS BEFORE ORDERING OR FABRICATING MATERIALS.
3. "h" AND BASE PLATE ELEVATIONS ARE FOR QUANTITIES ONLY AND ARE SUBJECT TO CHANGE BASED ON NOTE 1.




12.0" RADIUS, 2.0" BORDER, WHITE ON GREEN;

| LEGEND | | | | | ARROW DEGREE | ROUTE SHIELD SIZE |
|---|---|---|---|---|---|---|
| LINE # | UC | LC | NUMBERS | | | |
| | | | WHOLE | FRACTION | | |
| 1 | 13.3E(Mod) | 10E(Mod) | 13.3 | 10 | | |
| 2 | 13.3E(Mod) | 10E(Mod) | 13.3 | 10 | | |
| 3 | 13.3E(Mod) | 10E(Mod) | 13.3 | 10 | | |

## SIGN DETAILS

NO SCALE

SD-1

THIS PLAN ACCURATE FOR SIGN WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: MOHAMMED CHOWDHURY
CALCULATED-DESIGNED BY: SULIASTI SUTANTO
CHECKED BY: ESTHER M. KIM
REVISED BY
DATE REVISED

BORDER LAST REVISED 7/2/2010 | USERNAME => s133136 | DGN FILE => | RELATIVE BORDER SCALE IN INCHES 0 1 2 3 | UNIT 2124 | PROJECT NUMBER & PHASE 07000004851

DATE PLOTTED => 05-OCT-2010

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 07 | LA | 405 | 1.2, 2.3 | X | XX |

REGISTERED CIVIL ENGINEER DATE

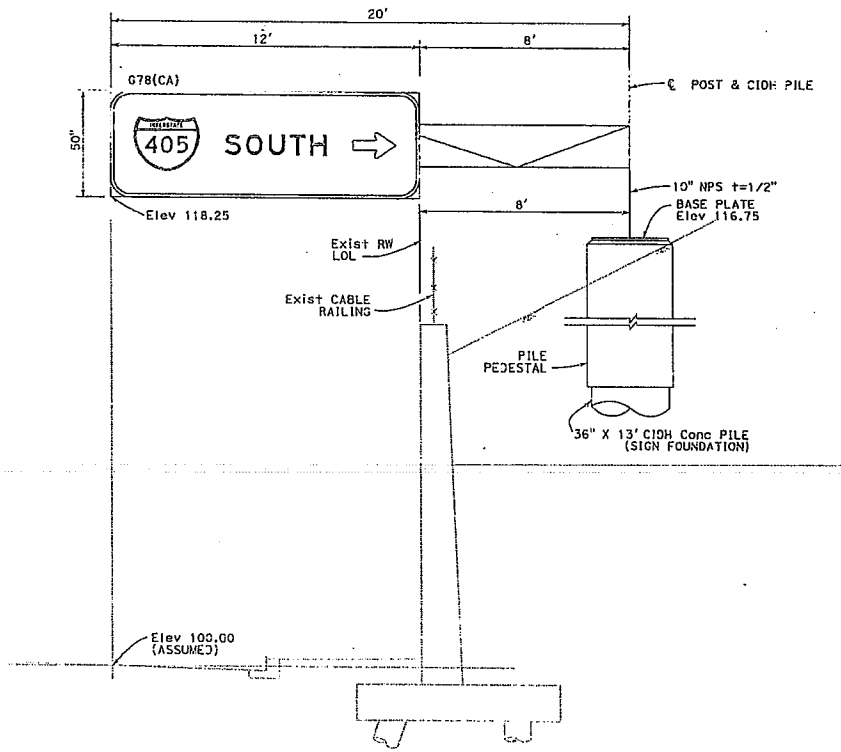
PLANS APPROVAL DATE

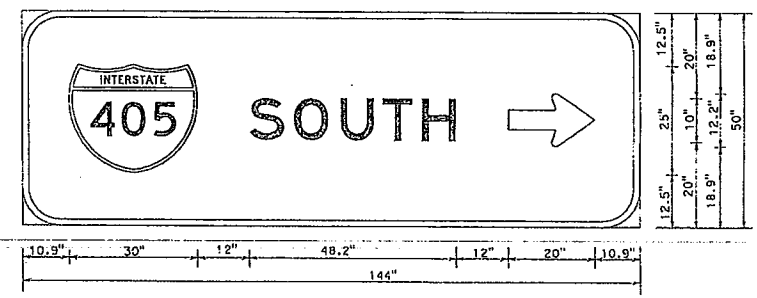
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER ESTHER M. KIM No. 48363 Exp 6/30/12 CIVIL STATE OF CALIFORNIA

NOTES:

1. FOR NOTES SEE SD-1 SHEET.




9.0" RADIUS, 1.5" BORDER, WHITE ON GREEN;

| LEGEND | | | | | ARROW DEGREE | ROUTE SHIELD SIZE |
|---|---|---|---|---|---|---|
| LINE # | UC | LC | NUMBERS WHOLE | NUMBERS FRACTION | | |
| 1 | 10E | | | | Horiz | 30" x 25" 8E |

SIGN No. 2

FEBT @ PM 2.3

1. FURNISH AND INSTALL SIGN LIGHTWEIGHT (TYPE C-2).
2. INSTALL LAMINATED PANEL-TYPE A.

## SIGN DETAILS

NO SCALE

SD-2

THIS PLAN ACCURATE FOR SIGN WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: MOHAMMED CHOWDHURY

CALCULATED-DESIGNED BY: SULIASTI SUTANTO

CHECKED BY: ESTHER M. KIM

REVISED BY

DATE REVISED

BORDER LAST REVISED 7/2/2010

USERNAME => s133480

RELATIVE BORDER SCALE IN INCHES 0 1 2 3

UNIT 2124

PROJECT NUMBER & PHASE 0700000465!

LAST REVISED DATE PLOTTED => 05-OCT-2010 TIME PLOTTED => 11:00

# ADDENDUM 1

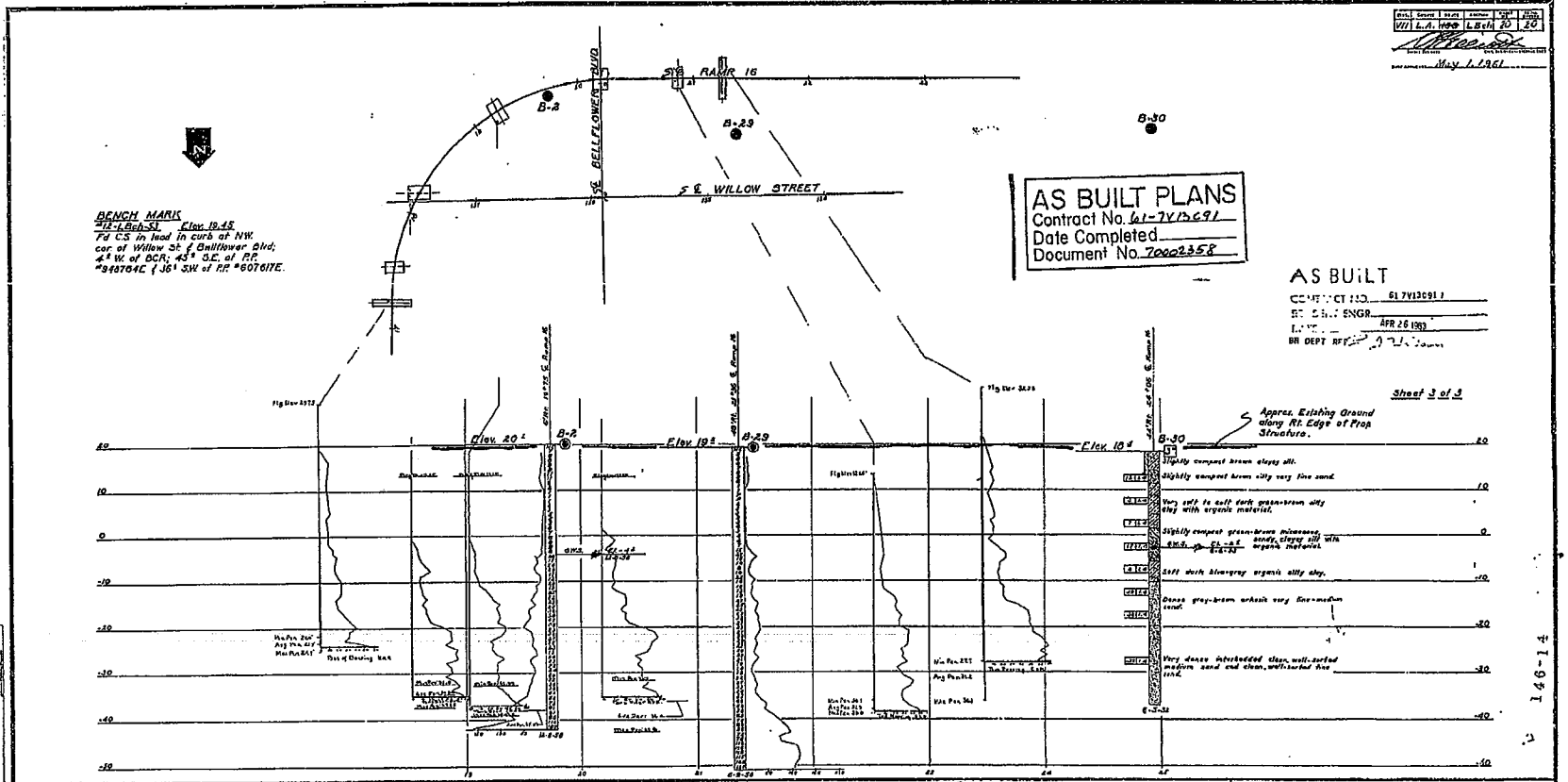
I-405-2(46)118

| FED. AID PROJ. NO. | STATE | FUNC. CL. | SHEET NO. | TOTAL SHEETS | DRAWING NO. |
|---|---|---|---|---|---|
| 7 | CAL. | | | 300 | 304 |

| DIST. | COUNTY | ROUTE | PREFIX | SUFFIX | POST MILE |
|---|---|---|---|---|---|
| VII | L.A. | 1405 | L.Bch | 20 | 2.0 |

May 1, 1961

BRIDGE DEPARTMENT




AS BUILT PLANS
Contract No. 61-7V13091
Date Completed
Document No. 70002358

AS BUILT
CONTRACT NO. 61 7V13091
ST. BRIDGE ENGR.
DATE APR 26 1963
BR DEPT REP.

Sheet 3 of 3

14-14

## Classification of Material Based on Standard Grade Size Limits

Diagram showing the basis for estimates of grade size distribution used in determination of class names. If gravel is present in appreciable amounts the term "gravelly" may be added to the class name, viz. "gravelly sand". The terms "coarse", "medium" and "fine" when used to describe sand, silt and gravel, refer to standard grade size limits.

## Legend of Earth Materials

- Gravel
- Sand
- Silt
- Clay
- Sandy Clay or Clayey Sand
- Sandy Silt or Silty Sand
- Silty Clay or Clayey Silt
- Peat and/or Organic Matter
- Fill Material
- Igneous Rock
- Sedimentary Rock
- Metamorphic Rock

## Legend of Boring Operations

- Plan of any boring
- Penetrometer
- 2 1/4" Cone Penetrometer
- Sampler Boring (CRV)
- Rotary Boring (WET)
- Auger Boring (DRY)
- Jet Boring
- Core Boring
- Test Pit

1" Soil Tube — Rotary Boring — Penetration Boring

## Notes

Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply material analysis.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

# BELLFLOWER ~~BLVD.~~ U.C.
(RAMP NO. 16)

## LOG OF TEST BORINGS

Hor. 1" = 40' Vert. 1" = 10' | BRIDGE 53-1154 OR | TR. F-53 | DRAWING 0-4371-64

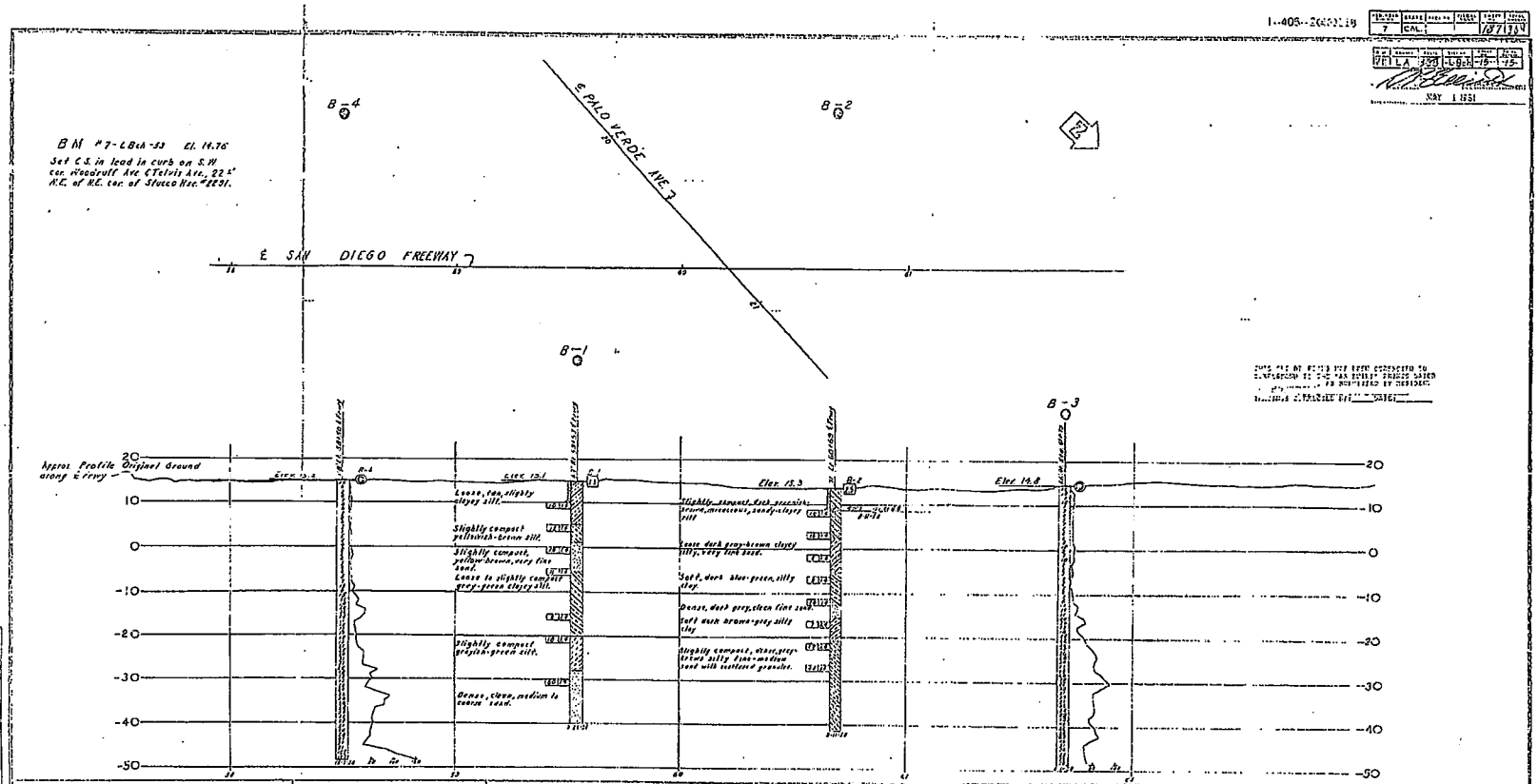
FULL DRAWING NO. P. 4371/50

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

304

ClibPDF - www.fastio.com

| 2-1-93 TO ACCOMPANY PLANS DATED | DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|---|
| | 07 | LA | 405 | 0.01.2 | 67 | 73 |




BRIDGE DEPARTMENT

1-405-2(65)118

BM #7-LBrA-53 El. 14.76 Set C.S. in lead in curb on S.W. cor. Woodruff Ave & Telvis Ave., 22.2' N.E. of N.E. cor. of Stucco Hse. #8231.

MAY 1 1951

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES. IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIZ. "GRAVELLY SAND". THE TERMS "COARSE", "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE SAND, SILT AND GRAVEL REFER TO STANDARD GRADE SIZE LIMITS.

LEGEND OF EARTH MATERIALS

- Gravel
- Sand
- Silt
- Clay
- Sandy Clay or Clayey Sand
- Sandy Silt or Silty Sand
- Silty Clay or Clayey Silt
- Peat and/or Organic Matter
- Fill Material
- Igneous Rock
- Sedimentary Rock
- Metamorphic Rock

LEGEND OF BORING OPERATIONS

- Plan of any boring
- Penetrometer
- 2½" Cone Penetrometer
- Sampler boring (DRY)
- Rotary boring (WET)
- Auger boring (DRY)
- Jet boring
- Core boring
- Test pit

1" Soil Tube — Rotary Borings — Penetration Boring

NOTES

Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

PALO VERDE AVE. UNDERCROSSING

LOG OF TEST BORINGS

Scale Vert. 1"=10' Horiz. 1"=20' | Bridge 53-1190 | File | Drawing 64 367-16

PREL. DRAWING NO. P-4247 20

AS BUILT

NO CONTRACT CHANGES BY Z. SALEH

CONTRACT NO. 07-119194

DATE 2-28-94

EARTHQUAKE RETROFIT PROJECT NO. SR 219

PALO VERDE AVENUE UNDERCROSSING

AS-BUILT LOG OF TEST BORINGS

NOTE: ADDITIONAL AS-BUILT FOUNDATION DATA MAY BE AVAILABLE AT THE DIVISION OF NEW TECHNOLOGY, MATERIALS AND RESEARCH 5900 FOLSOM BOULEVARD, SACRAMENTO, CALIFORNIA 95819

| | BY | CHECKED |
|---|---|---|
| DESIGN | M. Gibb | J. Manlscalco |
| DETAILS | B. Waldrop | J. Manlscalco |
| QUANTITIES | S. Lim | R. Salazar |

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

PROJECT ENGINEER

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 07 EA 119151

BRIDGE NO. 53-1190 | POST MILE 111

DISREGARD PRIN'S BEARING | EARLIER REVISION DATES | REVISION DATES (PRELIMINARY STAGE ONLY) | SHEET 7 OF 7

DESIGN OVERSIGHT | SIGNOFF DATE

CTUPDF - www.fastio.com

# 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.

## 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.

## 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.

## 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.