FOR CONTRACT NO: 06-0L6404
PROJECT ID: 0600020132

INFORMATION HANDOUT

MATERIALS INFORMATION

SITE INVESTIGATION REPORT

ROUTE: 06-Ker-99-R28.4/R44.3

SITE INVESTIGATION REPORT
KERN COUNTY ROUTE 99, PM 29.5 TO PM 31.1
AERIALLY DEPOSITED LEAD STUDY
KERN COUNTY, CALIFORNIA

September 12, 2000

Prepared for:

California Department of Transportation
Central California Environmental Technical Branch
3402 N. Blackstone, Suite 201
Fresno, California 93726

Prepared by:

IT Corporation
1433 N. Market Boulevard, Suite 1
Sacramento, California 95834

EA 06-421801
Task Order No. 06-421801-TP
Contract No. 43A0012

IT Project No. 808693

REGISTERED GEOLOGIST
JULIAN C. ISHAM
No. 007
CERTIFIED HYDRO GEOLOGIST
STATE OF CALIFORNIA

David M. Foley
Project Geologist

Donald P. Bransford, R.G.
Project Manager

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1.0 Introduction

This report has been prepared by IT Corporation (IT) to present the results of an environmental site investigation conducted for the evaluation of aerially deposited lead along State Route (SR) 99 in Kern County, California (Figure 1). This report documents investigation of SR99 in Kern County between Post Miles (PM) 29.5 and 31.1. The field investigation was conducted during June 2000. This investigation was conducted at the request and authorization of Mr. Gerry White of the California State Department of Transportation (Caltrans) under Contract 43A0012, Task Order No. 06-421801-TP, Expenditure Authorization (EA) 06-421801.

1.1 Project Description

Caltrans proposes to upgrade the southbound median and shoulder of SR 99 between PM 29.5 and 31.1, and the median at the SR 65 overpass pillars (PM 29.86) and the 7th Standard Road overpass pillars (PM 30.51) along SR 99. All work was conducted within Caltrans right-of-way.

In 1995, the Department of Toxics and Substance Control (DTSC) issued Caltrans a variance concerning the handling and reuse of material contaminated by lead from motor vehicle emissions. Prior to the implementation of engineering and construction projects, Caltrans performs environmental investigations to evaluate potential re-use of soil within project boundaries.

1.2 Project Objective

The purpose of this project was to evaluate the presence and concentration of aerially deposited lead where soil excavation may be anticipated at the southbound median and shoulder of SR 99 (Caltrans, 2000).

2.0 Scope of Work

The scope of work for the investigation was presented in IT's Work Plan dated June 19, 2000, which was approved for implementation by Caltrans (IT, 2000a). To achieve the project objective, the following scope of work was performed:

1. Permitting
2. Preparation of Work Plan and Health and Safety Plan
3. Mobilization and Field Investigation
4. Laboratory Analyses
5. Site Investigation Report Preparation

2.1 Permitting and Pre-Work Site Visit

A standard Caltrans encroachment permit was obtained (Appendix A). Kern County Environmental Health Drilling Permits were not required. Underground Service Alert was notified of the subsurface investigation approximately 48 hours prior to initiation of the investigation.

A pre-work site visit was convened on May 31, 2000, and attended by David Foley of IT and Gerry White of Caltrans. Among the items discussed and reviewed were the scope of work, the site visit checklist, and the schedule. In addition, computer digital images (virtual images) of SR 99 were reviewed.

2.2 Work Plan and Health and Safety Plan

A Work Plan was prepared to present the scope of work and the procedures to be used in the field (IT, 2000a). A site-specific health and safety plan was prepared in accordance with 29 CFR 1910.120. The health and safety plan included safety procedures for work to be performed at the site, chemical hazard information, site safety officers, and preferred medical emergency locations (IT, 2000b).

2.3 Field Investigation

The field investigation was conducted on June 26, 2000, and June 27, 2000, and included the advancement of 79 soil borings and the collection of 234 soil samples. The boring locations were selected according to guidelines presented in Caltrans Task Order No. 06-421801-TP (Figure 2-Borehole Template). The borings were placed according to the following guidelines:

- A borehole was located every approximately 61.3 meters (201 feet) along the median and shoulder of the southbound lanes of SR99 (Caltrans, 2000).
- Additional boreholes were located in the median soil at the SR65 overpass pillars (PM 29.86) and the 7th Standard Road overpass pillars (PM 30.51).

Borings were designated by SR (i.e., borings 99-01 to 99-81 were advanced sequentially along SR99 [Figure 1]). Soil borings 99-43 and 99-44 were not accessible for sampling after the locations were marked. The Trimble GPS Pathfinder™ Pro XRS Global Positioning System (GPS) instrumentation was used to establish the coordinates for each boring location. The GPS system used a GPS receiver and a radio beacon differential receiver to provide real-time differential corrections to the possible coordinates. Coordinates not collected with real-time corrections were corrected later with the appropriate software. IT provided Caltrans with the uncorrected and corrected files in electronic format. Coordinates were measured with a minimum accuracy of 1 to 5 meters and are reported on Table 1.

The soil borings were advanced using 2-inch-diameter hand-held auger sampling equipment. The soil borings were advanced to a depth of approximately 0.6 meters (2.0 feet) below ground surface (bgs) with samples collected from 0.1 meter (0.33 feet), 0.3 meter (1.0 feet), and 0.6 meter (2.0 feet) depths as specified by the contract manager (Caltrans, 2000). Sampling efforts were terminated at three soil boring locations due to hard drilling. Groundwater was not encountered in any of the soil borings. Drilling and sampling procedures are presented in Appendix B.

Soil samples were collected using the hand-held auger equipment and transferred to re-sealable plastic baggies. The samples were then labeled, packaged, and stored on ice in an insulated chest for transport under chain-of-custody manifest to the laboratory. Soil samples were analyzed according to the analytical protocols shown on Table 2 and discussed in Section 2.4.

After sample collection, the borings were backfilled with the remaining borehole cuttings. All drilling and sampling equipment was washed prior to use. All appropriate downhole drilling and sampling equipment was washed between borings. No excess soil waste was generated.

This report presents the results obtained from 79 soil borings that were drilled to 0.6 meters (2.0 ft) along the southbound median and shoulder of SR99 between PM 29.5 and 31.1. IT designated this segment SR99. Two hundred thirty-four soil samples were collected for laboratory analysis. Boring locations (GPS coordinates) are presented on Table 1.

2.4 Laboratory Analyses

The soil samples collected and retained for laboratory analysis were submitted to Sparger Technology, Inc., of Sacramento, California, a California-certified analytical laboratory. Chain-of-custody procedures, including the use of Chain-of-Custody forms, were used to document sample handling and transport from the time of collection to delivery to the laboratory for analysis. The analyses were performed on a 48-hour turn-around basis in general accordance with U.S. Environmental Protection Agency (USEPA) specified holding times. Pursuant to the task order, all samples were analyzed for total lead. Selected samples were tested for soluble lead by the waste extraction test (WET), for soluble lead by the WET using a deionized water extraction solution (DI WET), and for pH.

Soil samples reported to contain total lead in excess of 15 times the Soluble Threshold Limit Concentration [STLC =5 milligrams per liter (mg/l), 15x STLC = 75 mg/l] and/or in excess of the Total Limit Threshold Concentration [TTLC =1,000 milligrams per kilogram (mg/kg)] were chosen for analysis of soluble lead using the WET. Soil samples with WET results greater than 5 mg/l were analyzed by the DI WET.

3.0 Site Investigation Results

Laboratory results are presented on Table 1 and summarized on Table 2. Statistical results are presented on Table 3. The GPS data are presented on Table 1. The laboratory reports and Chain-of-Custody forms are contained in Appendix C.

Total lead analysis was performed on 234 samples, soluble lead analysis by the WET was performed on 85 samples, soluble lead analysis by the DI WET was performed on 58 samples, and pH tests were performed on 23 samples.

Total lead was reported at concentrations ranging from less than 30 to 1,100 mg/kg. The pH ranged from 6.3 to 8.3. Eighty-five samples reported with total lead in excess of 75 mg/kg were analyzed by the WET. Soluble lead was reported at concentrations ranging from 0.933 to 39.4 mg/l. Fifty-eight of these samples exceeded the STLC of 5 mg/l and were further analyzed by the DI WET. Soluble lead by DI WET was reported at concentrations ranging from less than 0.01 to 0.90 mg/l.

4.0 Data Evaluation

Soil samples collected from the southbound shoulder and median along SR99 PM 29.5 to 31.1 were reported to contain lead (Table 1). Studies conducted along transportation corridors have attributed elevated lead concentrations within soil to accumulation of dust and debris containing lead derived from leaded gasoline emissions (Coltrin, et al., 1993). The higher concentrations of total lead were generally detected in the shallower samples, with few exceptions, total lead concentrations decreased with increasing depth within each borehole (Table 1), which is indicative of aerially deposited lead impacted soils near major transportation routes.

Lead concentrations were compared to TTLC and STLC values to evaluate whether the soil would be considered a California-hazardous waste, should it be classified as a waste. One soil sample (99-54-0.1) collected from the project area contained lead at a concentration in excess of the TTLC (1,000 mg/kg). Soil from this area would be considered a hazardous waste, should it be classified as a waste, based on the total lead concentrations. Additionally, 13 of the samples were above the 350 mg/kg level specified in Section 25157.8 of the California Health and Safety Code requiring waste disposal in a Class I waste facility.

Soluble lead results are summarized on Table 2. Waste containing concentrations of soluble lead in excess of the TTLC or STLC would be considered a hazardous waste in California. The California Environmental Protection Agency, DTSC, has granted Caltrans a variance for soil considered hazardous due to the presence of elevated lead concentrations (DTSC, 1995). However, the variance expired in June 2000. A draft variance is currently under review. The variance only applied to waste soil that would be considered a non-Resource Conservation Recovery Act hazardous waste. The expired variance allowed Caltrans to reuse lead-contaminated soil within Caltrans right-of-way in the roadway corridor boundaries under the following conditions:

1. As fill beneath two feet of clean soil and five feet above the water table if the soluble lead concentration reported by DI WET analysis is less than 0.5 mg/l and the total lead concentration is less than 1,575 mg/kg.
2. As fill beneath a pavement structure designed to protect the soil from water infiltration and five feet above the water table if the soluble lead concentration reported by DI WET analysis is greater than 0.5 mg/l but less than 50 mg/l, or the total lead concentration is more than 1,575 mg/kg but less than 4,150 mg/kg.
3. Lead-contaminated soil with a pH less than 5 shall only be used as fill beneath the paved portion of the roadway.

Along SR99, 85 of the 234 soil samples collected (36 percent) were reported to contain total lead in excess of 75 mg/kg. Those 85 samples were chosen for WET analyses and Table 1 lists the lead results for the 234 soil samples. One total lead concentration exceeded the TTLC (1,000 mg/kg). Soil in this area would be considered a hazardous waste based on the total lead concentration, should the soil be classified as a waste. Fifty-eight of the 85 samples (68%) analyzed by the WET were reported by the laboratory to have a soluble lead concentration that exceeded the STLC of 5 mg/l and were further analyzed by the DI WET. Soil at these sample locations would be considered a hazardous waste based on the soluble lead concentrations, should the soil be classified as a waste. One DI WET concentration exceeded the expired DTSC variance of 0.5 mg/l for condition 1 soil re-use. This one sample meets the requirements for expired DTSC variance condition 2.

4.1 Lead Data Statistical Analysis

IT conducted a statistical evaluation of total lead and soluble lead analytical data for this project at the request of Caltrans. The statistical evaluation was conducted in general accordance with guidelines developed by the Caltrans Noise, Air, and Hazardous Waste Management Office dated February 4, 1998 (Caltrans, 1998), and with the Supplemental Guidance to Risk Assessment Guidance for Superfund: Volume I - Human Health Evaluation Manual (RAGS/HHEM- USEPA, 1992). The expired DTSC variance allowed Caltrans, under certain conditions, to excavate, collect, and reuse contaminated soils within existing rights-of-way. Within the limitations of the expired variance, soil analytical data is used to determine if and how soil material may be reused.

The statistical evaluation addressed the following items:

- Determination of normal or lognormal distribution of sample data to identify the proper equation for certainty analysis;
- Calculation of mean;
- Calculation of standard deviation; and
- Calculation of the 95% Upper Confidence Level (UCL).

The data were treated as a single population by combining the three depth intervals. Lead results below the laboratory reporting limit of 30 mg/kg (non-detects) were treated as one-half of the reporting limit (15 mg/kg) in the statistical evaluation. Calculations were performed in EXCEL 97™ and were proofed by hand calculation using equations from "Statistical Methods for Environmental Pollution Monitoring", Gilbert, 1987. The equation used for the calculation of

the 95% UCL (Caltrans, 1998; USEPA, 1992) was entered into EXCEL 97™ and proofed by hand calculation (Gilbert, 1987).

The 95% UCL was calculated using the following equation:

$$\mathbf{UCL = exp(x + 0.5s^2 + (sH/sqrt(n-1))} \qquad \mathbf{(1)}$$

where exp = constant (base of the natural log (LN) = 2.718)

x = mean of the transformed data (LN(concentration))

s = standard deviation of the transformed data

H = H-statistic

n = number of samples

Determination of the H-statistic was accomplished by linear extrapolation between given values (Table A12, p265, Gilbert, 1987). Results of the statistical calculations for the single population analysis are provided in Table 3.

The 95% UCL (based on equation (1)) is a function of the standard deviation (s), the number of samples (n), and the H-statistic. The H-statistic (Gilbert, 1987) is determined from tabulated values based on s and n. Therefore, the calculated 95% UCL is sensitive to s and n. In general, for high values of n and/or low values of s, the 95% UCL will be close to the mean concentration. In this case, the average for the population is representative. Conversely, for low values of n and/or high values of s, the 95% UCL may be far away from the mean, and the 95% UCL cannot be defined accurately because the uncertainty involved in the sample population is too high. In this case, the lead concentration is not necessarily higher than in other sites, but that more data are required before recommendations can be made based on the statistical evaluation.

For this study, the 95% UCL was calculated for all total lead results and soluble lead results.

The mean (average) total lead concentration for the single population was calculated at 99.7 mg/kg. The mean soluble lead concentration by the WET was 10.0 mg/l, and the mean soluble lead concentration by the DI WET was 0.08 mg/l.

The 95% UCL for total lead was 115.3 mg/kg. The 95% UCL for soluble lead by the WET was 12.0 mg/l, and the 95% UCL for soluble lead by the DI WET was 0.12 mg/l.

Soil in the vicinity of boring 99-54 at the 0.1 meter depth interval was reported to contain a total lead concentration of 1,100 mg/kg. Soil at this location is in excess of 1,000 mg/kg (TTLC) and would be considered a hazardous waste based on the total lead concentration, should the soil be classified as a waste. However, during construction it is expected soil would be excavated, stockpiled, and sampled on a composite basis.

The total lead mean concentration and 95% UCL for total lead exceeded 50 mg/kg (ten times the STLC), a level that would trigger soluble lead analyses on the soil waste. Therefore, if WET analyses were conducted, soil at specific locations within the investigation area may contain soluble lead in concentrations that would exceed the STLC. Soil at these localized areas would be considered a hazardous waste, should the soil be classified as a waste based on the soluble lead concentrations. This is based on the soluble lead mean and 95% UCL values of 10.0 and 12.0 mg/kg, respectively. However, the total lead mean concentration and 95% UCL are below the following:

- TTLC of 1,000 mg/kg, which would cause the soil waste to be considered a hazardous waste based on total lead concentrations; and
- The 350 mg/kg level requiring disposal in a Class I waste disposal facility.

Management of this soil could be accomplished within condition 1 of the expired variance.

5.0 Conclusions

Caltrans proposes to upgrade the southbound median and shoulder of SR 99 between PM 29.5 and 31.1, and the median at the SR 65 overpass pillars (PM 29.86) and the 7th Standard Road overpass pillars (PM 30.51) along SR 99 in Kern County. On behalf of Caltrans, IT conducted this site investigation to evaluate the presence and concentrations of lead in along SR 99 between PM 29.5 and 31.1.

Based on the results and data evaluation of this investigation, the following conclusions are offered for SR99 PM 29.5 and 31.1:

- Total lead concentrations ranged from less than 30 to 1,100 mg/kg in 234 samples analyzed. One total lead concentration exceeded the TTLC of 1,000 mg/kg. Soil in this area would be considered a hazardous waste based on the total lead concentration, should the soil be classified as a waste. With few exceptions, total lead concentrations were observed to decrease with increasing depth.
- Based on the results of the WET, 58 of the 85 samples analyzed for soluble lead exceeded the STLC of 5 mg/l.
- Based on the results of the DI WET, the soluble lead concentrations from the 58 samples analyzed ranged from less than 0.01 to 0.90 mg/l.

Single Population Analysis

- The mean (average) total lead concentration for the single population was calculated at 99.7 mg/kg. The mean soluble lead concentration by the WET was 10.0 mg/l, and the mean soluble lead concentration by the DI WET was 0.08 mg/l.
- The mean concentration and 95% UCL for total lead exceeded 50 mg/kg (ten times the STLC). Therefore, it is likely that the soil, if excavated, stockpiled, and sampled on a composite basis, would be considered hazardous waste.

If the soil is excavated, stockpiled, and sampled on a composite basis, management of this soil could be accomplished within condition 1 of the expired DTSC variance. Toxicity characteristic leaching procedure analyses may be necessary to evaluate off-site disposal options.

6.0 References

Caltrans, (California Department of Transportation), 2000, California Department of Transportation, District 6, Central California Environmental Technical Branch, Task Order No. 06-421801-TP, dated April 12, 2000.

Caltrans, 1998, Memorandum on Guidance for Conducting Statistical Evaluation of Lead Data, Noise, Air, and Hazardous Waste Management Office, February 4, 1998.

California Environmental Protection Agency (CalEPA), Department of Toxics and Substances Control (DTSC), *Caltrans Variance for Reuse of Lead Contaminated Soils*, February, 1995.

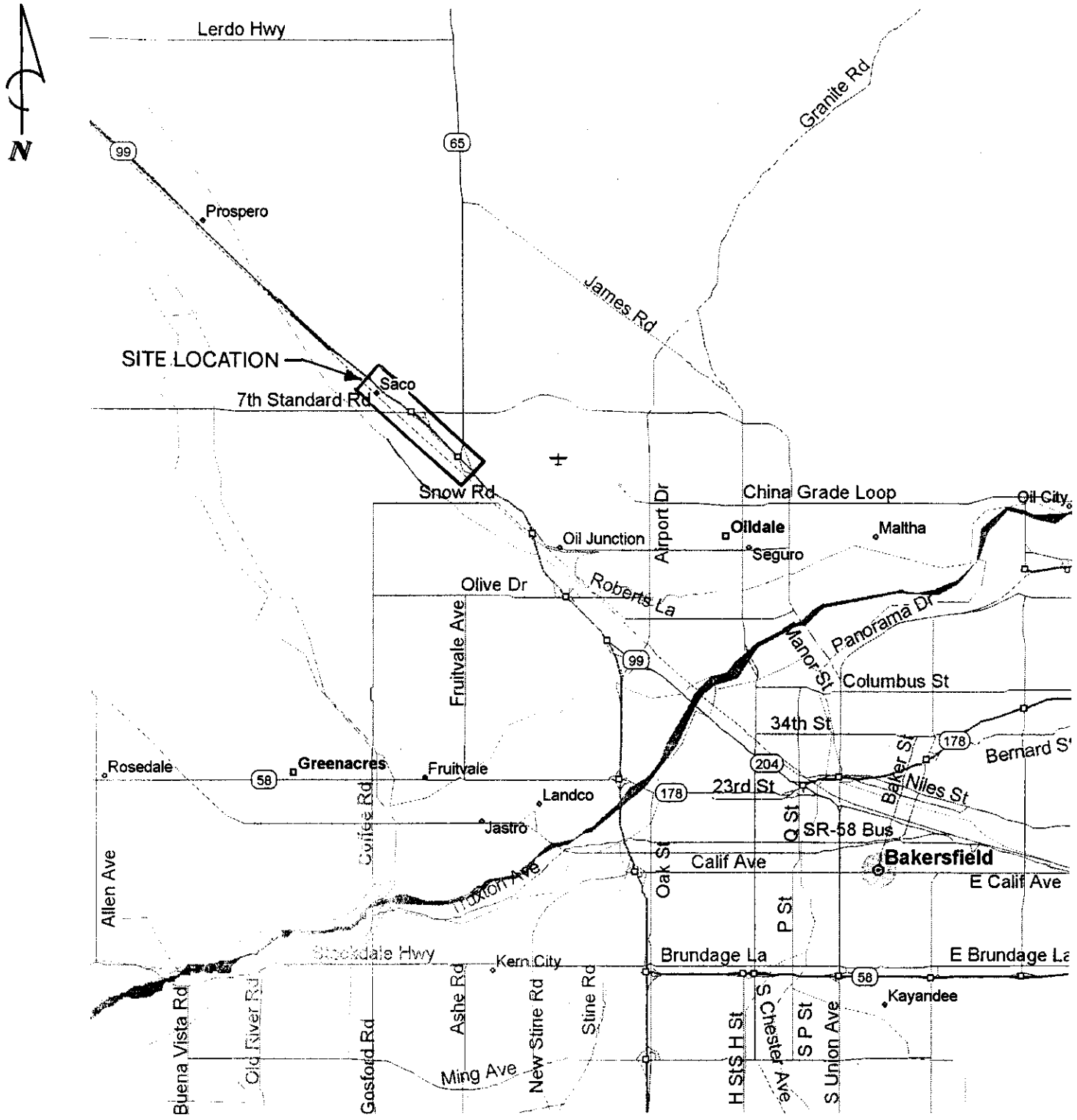
Coltrin, D., Teichman, J., and Prouty, K., 1993, A survey of lead contamination in soil along Interstate-880, Alameda County, California: *Applied Occupational and Environmental Hygiene*, Tharr, D., ed., vol.8, no. 4, April 1993, p.217-220.

Gilbert, R.O., *Statistical Methods for Environmental Pollution Monitoring*, Van Nostrand Reinhold, New York, New York, 1987.

IT (IT Corporation), 2000a, Workplan, Aerially Deposited Lead Study for Selected State Routes in Kern County, California, dated June 19, 2000.

IT, 2000b, Health and Safety Plan, Aerially Deposited Lead Study for Selected State Routes in Kern County, California, dated June 19, 2000.

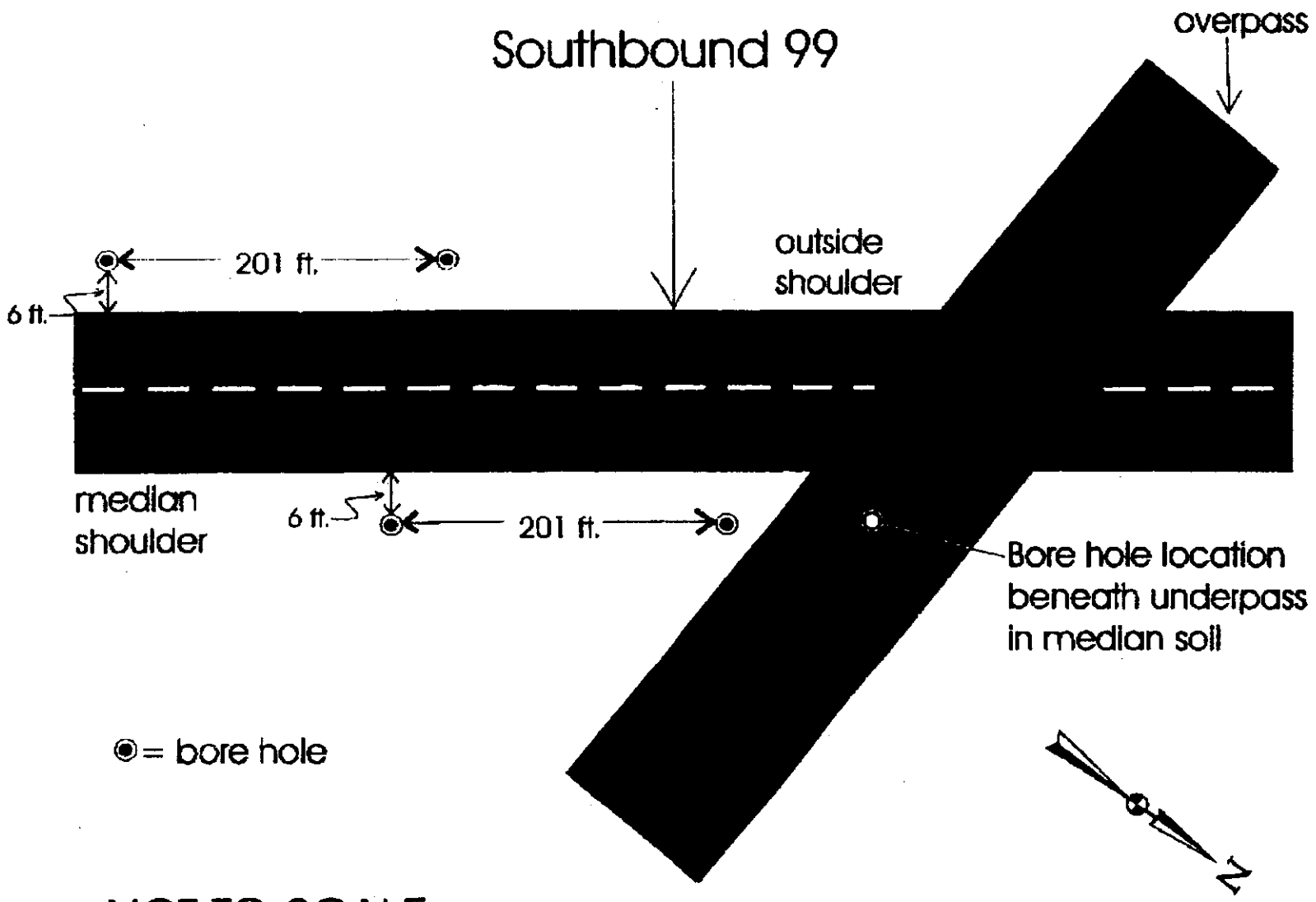
USEPA (United States Environmental Protection Agency), 1992, "Supplemental Guidance to RAGS: Calculating the Concentration Term", (OSWER Directive 9285.7-081), May, 1992.



REFERENCE: STREETS 98

INTERNATIONAL TECHNOLOGY CORPORATION	SITE LOCATION MAP Caltrans Lead Investigation Kern County SR 99 – PM 29.5/31.1 EA 06-421801	Figure: 1

FIGURE 2



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Bore Hole Template

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TABLE 1
GPS Coordinates and
Lead Analytical Results
Kern County State Route 99 PM 29.5 to 31.1
EA 06-421801

Location Number	Lab ID	Sample Number (Boring ID with depth in meters)	GPS Location ID	Latitude	Longitude	MSL	EPA 7420 Total Lead (mg/kg)	WET 6010 STLC Lead (mg/L)	DI WET 6010 STLC Lead (mg/L)	EPA 9045 pH
1	12356-001	99-01-0.1	99-01	35.44567358	-119.0926246	473.0	38			
	12356-002	99-01-0.3				472.3	**190**	**6.54**	0.018	
	12356-003	99-01-0.6				471.4	39			
2	12356-004	99-02-0.1	99-02	35.44533784	-119.0920953	465.0	**190**	**8.43**	ND	7.6
	12356-005	99-02-0.3				464.3	ND			
	12356-006	99-02-0.6				463.3	33			
3	12356-007	99-03-0.1	99-03	35.44503893	-119.0915105	464.4	**410**	**15.0**	0.017	
	12356-008	99-03-0.3				463.6	ND			
	12356-009	99-03-0.6				462.7	34			
4	12356-010	99-04-0.1	99-04	35.44475177	-119.090926	467.1	39			
	12356-011	99-04-0.3				466.4	ND			
	12356-012	99-04-0.6				465.5	34			
5	12356-013	99-05-0.1	99-05	35.44448916	-119.0903247	468.7	**250**	**9.41**	0.022	7.7
	12356-014	99-05-0.3				468.0	ND			
	12356-015	99-05-0.6				467.0	30			
6	12356-016	99-06-0.1	99-06	35.44425079	-119.0897089	469.3	**240**	**6.84**	0.013	
	12356-017	99-06-0.3				468.6	37			
	12356-018	99-06-0.6				467.7	39			
7	12356-019	99-07-0.1	99-07	35.44400735	-119.0891019	470.0	**81**	1.90		
	12356-020	99-07-0.3				469.3	ND			
	12356-021	99-07-0.6				468.4	ND			
8	12356-022	99-08-0.1	99-08	35.44377165	-119.0884804	465.5	36			
	12356-023	99-08-0.3				464.7	ND			
	12356-024	99-08-0.6				463.8	ND			
9	12356-025	99-09-0.1	99-09	35.44351667	-119.0878452	466.8	**99**	3.40		
	12356-026	99-09-0.3				466.1	32			
	12356-027	99-09-0.6				465.2	33			8.1
10	12356-028	99-10-0.1	99-10	35.44324204	-119.0872496	464.9	**130**	1.47		
	12356-029	99-10-0.3				464.2	33			
	12356-030	99-10-0.6				463.3	ND			
11	12356-031	99-11-0.1	99-11	35.44295295	-119.0866685	463.5	48			
	12356-032	99-11-0.3				462.8	34			
	12356-033	99-11-0.6				461.9	ND			
12	12356-034	99-12-0.1	99-12	35.44263544	-119.0861005	465.3	**56**			
	12356-035	99-12-0.3				464.6	31			
	12356-036	99-12-0.6				463.7	ND			
13	12356-037	99-13-0.1	99-13	35.44231023	-119.0855433	463.8	**50**			
	12356-038	99-13-0.3				463.1	ND			
	12356-039	99-13-0.6				462.2	ND			
14	12356-040	99-14-0.1	99-14	35.44196093	-119.0850109	460.7	**110**	4.18		
	12356-041	99-14-0.3				460.0	ND			8.3
	12356-042	99-14-0.6				459.1	ND			
15	12356-043	99-15-0.1	99-15	35.44159149	-119.0844859	467.1	**65**			
	12356-044	99-15-0.3				466.3	42			
	12356-045	99-15-0.6				465.4	36			
16	12356-046	99-16-0.1	99-17	35.44122466	-119.0840032	451.7	42			
	12356-047	99-16-0.3				450.9	ND			
	12356-048	99-16-0.6				450.0	ND			
17	12356-049	99-17-0.1	99-16	35.44122068	-119.0840093	465.2	45			
	12356-050	99-17-0.3				464.5	ND			
	12356-051	99-17-0.6				463.6	ND			

TABLE 1
GPS Coordinates and
Lead Analytical Results
Kern County State Route 99 PM 29.5 to 31.1
EA 06-421801

Location Number	Lab ID	Sample Number (Boring ID with depth in meters)	GPS Location ID	Latitude	Longitude	MSL	EPA 7420 Total Lead (mg/kg)	WET 6010 STLC Lead (mg/L)	DI WET 6010 STLC Lead (mg/L)	EPA 9045 pH
18	12356-052	99-18-0.1	99-18	35.44082736	-119.0835166	469.8	**59**			
	12356-053	99-18-0.3				469.0	ND			
	12356-054	99-18-0.6				468.1	ND			
19	12356-055	99-19-0.1	99-19	35.44042745	-119.083029	467.8	ND			
	12356-056	99-19-0.3				467.0	ND			
	12356-057	99-19-0.6				466.1	ND			
20	12356-058	99-20-0.1	99-20	35.44003679	-119.0825478	465.6	42			
	12356-059	99-20-0.3				464.9	ND			
	12356-060	99-20-0.6				463.9	ND			
21	12356-061	99-21-0.1	99-21	35.43964499	-119.0820616	464.1	ND			
	12356-062	99-21-0.3				463.4	ND			
	12356-063	99-21-0.6				462.5	ND			
22	12356-064	99-22-0.1	99-22	35.4392563	-119.081577	463.6	ND			
	12356-065	99-22-0.3				462.9	ND			
	12356-066	99-22-0.6				462.0	ND			
23	12356-067	99-23-0.1	99-23	35.43885572	-119.0810943	464.4	ND			
	12356-068	99-23-0.3				463.7	ND			
	12356-069	99-23-0.6				462.8	ND			
24	12356-070	99-24-0.1	99-24	35.43846228	-119.0805927	467.9	48			
	12356-071	99-24-0.3				467.1	ND			
	12356-072	99-24-0.6				466.2	ND			7.9
25	12356-073	99-25-0.1	99-25	35.43807581	-119.0801145	463.7	**190**	**7.47**	ND	
	12356-074	99-25-0.3				462.9	ND			
	12356-075	99-25-0.6				462.0	ND			
26	12356-076	99-26-0.1	99-26	35.43767065	-119.079631	466.4	**92**	4.33		
	12356-077	99-26-0.3				465.7	ND			
	12356-078	99-26-0.6				464.8	ND			
27	12356-079	99-27-0.1	99-27	35.43728165	-119.0791437	466.8	ND			
	12356-080	99-27-0.3				466.1	ND			
	12356-081	99-27-0.6				465.2	ND			
28	12356-082	99-28-0.1	99-28	35.43688529	-119.0786633	467.1	**74**			
	12356-083	99-28-0.3				466.4	ND			6.4
	12356-084	99-28-0.6				465.5	ND			
29	12356-085	99-29-0.1	99-29	35.436488	-119.0781735	464.8	ND			
	12356-086	99-29-0.3				464.1	ND			
	12356-087	99-29-0.6				463.2	ND			
30	12356-088	99-30-0.1	99-30	35.43609555	-119.0776725	463.3	**84**	0.933		
	12356-089	99-30-0.3				462.5	ND			
	12356-090	99-30-0.6				461.6	ND			
31	12356-091	99-31-0.1	99-31	35.43570418	-119.0771888	467.8	**220**	**11.9**	0.037	
	12356-092	99-31-0.3				467.1	ND			
	12356-093	99-31-0.6				466.2	ND			
32	12356-094	99-32-0.1	99-32	35.43531017	-119.0767138	465.5	**85**	1.64		7.5
	12356-095	99-32-0.3				464.8	ND			
	12356-096	99-32-0.6				463.8	ND			
33	12356-097	99-33-0.1	99-33	35.43490965	-119.0762209	464.5	**490**	**17.0**	0.078	
	12356-098	99-33-0.3				463.8	ND			
	12356-099	99-33-0.6				462.9	ND			
34	12356-100	99-34-0.1	99-34	35.43463444	-119.075886	465.2	**270**	**19.1**	0.040	6.7
	12356-101	99-34-0.3				464.5	ND			
	12356-102	99-34-0.6				463.6	ND			

TABLE 1
GPS Coordinates and
Lead Analytical Results
Kern County State Route 99 PM 29.5 to 31.1
EA 06-421801

Location Number	Lab ID	Sample Number (Boring ID with depth in meters)	GPS Location ID	Latitude	Longitude	MSL	EPA 7420 Total Lead (mg/kg)	WET 6010 STLC Lead (mg/L)	DI WET 6010 STLC Lead (mg/L)	EPA 9045 pH
35	12356-103	99-35-0.1	99-35	35.43451941	-119.0757467	464.2	**110**	3.41		
	12356-104	99-35-0.3				463.5	ND			
	12356-105	99-35-0.6				462.6	ND			
36	12356-106	99-36-0.1	99-36	35.4341081	-119.0752796	463.3	**240**	**10.8**	0.012	
	12356-107	99-36-0.3				462.6	ND			
	12356-108	99-36-0.6				461.7	ND			
37	12356-109	99-37-0.1	99-37	35.43368254	-119.0748215	461.2	**84**	2.79		
	12356-110	99-37-0.3				460.5	ND			
	12356-111	99-37-0.6				459.5	ND			
38	12356-112	99-38-0.1	99-38	35.43323727	-119.0743967	462.3	**75**			
	12356-113	99-38-0.3				461.6	ND			
	12356-114	99-38-0.6				460.7	36			
39	12356-115	99-39-0.1	99-39	35.43279348	-119.0739941	458.2	**160**	**5.59**	0.012	7.0
	12356-116	99-39-0.3				457.5	31			
	12356-117	99-39-0.6				456.6	ND			
40	12356-118	99-40-0.1	99-40	35.43234665	-119.0736078	458.7	**62**			
	12356-119	99-40-0.3				457.9	ND			
	12356-120	99-40-0.6				457.0	37			
41	12356-121	99-41-0.1	99-41	35.43187453	-119.073212	459.4	**290**	**8.64**	ND	
	12356-122	99-41-0.3				458.7	ND			
	12356-123	99-41-0.6				457.8	ND			
42	12356-124	99-42-0.1	99-42	35.43129782	-119.0727362	458.4	**55**			
	12356-125	99-42-0.3				457.7	**61**			
	12356-126	99-42-0.6				456.7	ND			
43	12356-232	99-45-0.1	99-43	35.43122222	-119.0729426	451.8	**150**	**8.88**	0.033	7.4
	12356-233	99-45-0.3				451.1	**110**	3.88		
	12356-234	99-45-0.6				450.2	**130**	**5.49**	0.071	
44	12356-229	99-46-0.1	99-44	35.43169783	-119.0733406	451.9	**240**	**7.26**	0.036	
	12356-230	99-46-0.3				451.1	**170**	4.34		
	12356-231	99-46-0.6				450.2	**120**	4.76		
45	12356-226	99-47-0.1	99-45	35.43216283	-119.0737313	452.0	**430**	**11.1**	0.037	
	12356-227	99-47-0.3				451.2	**150**	**9.06**	0.040	7.2
	12356-228	99-47-0.6				450.3	**230**	**5.09**	ND	
46	12356-223	99-48-0.1	99-46	35.43263083	-119.0741367	452.5	**180**	**8.66**	0.034	
	12356-224	99-48-0.3				451.8	44			
	12356-225	99-48-0.6				450.9	ND			
47	12356-220	99-49-0.1	99-47	35.43308911	-119.0745294	453.8	**130**	3.92		
	12356-221	99-49-0.3				453.1	**120**	3.92		
	12356-222	99-49-0.6				452.2	**96**	2.06		
48	12356-217	99-50-0.1	99-48	35.43357053	-119.0749999	453.9	**100**	4.40		
	12356-218	99-50-0.3				453.2	**170**	**6.18**	ND	
	12356-219	99-50-0.6				452.3	**88**	3.98		7.2
49	12356-214	99-51-0.1	99-49	35.43400524	-119.0754513	454.3	**90**	**11.7**	ND	
	12356-215	99-51-0.3				453.6	**120**	**5.76**	0.036	
	12356-216	99-51-0.6				452.7	**100**	4.12		
50	12356-212	99-52-0.1	99-50	35.43442857	-119.0759131	457.6	**270**	**11.3**	0.041	
	12356-213	99-52-0.3				456.9	**260**	**11.3**	0.11	
		99-52-0.6					NS			
51	12356-209	99-53-0.1	99-51	35.43484551	-119.0764676	464.2	**310**	**29.8**	0.092	
	12356-210	99-53-0.3				463.5	**150**	**7.98**	0.077	
	12356-211	99-53-0.6				462.5	39			

TABLE 1
GPS Coordinates and
Lead Analytical Results
Kern County State Route 99 PM 29.5 to 31.1
EA 06-421801

Location Number	Lab ID	Sample Number (Boring ID with depth in meters)	GPS Location ID	Latitude	Longitude	MSL	EPA 7420 Total Lead (mg/kg)	WET 6010 STLC Lead (mg/L)	DI WET 6010 STLC Lead (mg/L)	EPA 9045 pH
52	12356-206	99-54-0.1	99-52	35.43519064	-119.0768857	461.3	**1,100**	**39.4**	0.90	7.0
	12356-207	99-54-0.3				460.6	**360**	**18.8**	0.17	
	12356-208	99-54-0.6				459.7	**180**	**5.85**	0.064	
53	12356-203	99-55-0.1	99-53	35.43560141	-119.0773899	460.0	**97**	2.58		
	12356-204	99-55-0.3				459.3	**58**			
	12356-205	99-55-0.6				458.4	ND			
54	12356-200	99-56-0.1	99-54	35.4360318	-119.0779186	459.3	**55**			
	12356-201	99-56-0.3				458.5	40			
	12356-202	99-56-0.6				457.6	**56**			
55	12356-197	99-57-0.1	99-55	35.43643727	-119.0784086	457.3	41			
	12356-198	99-57-0.3				456.6	ND			
	12356-199	99-57-0.6				455.7	ND			
56	12356-194	99-58-0.1	99-56	35.43686715	-119.0789283	457.7	**340**	**23.9**	0.24	
	12356-195	99-58-0.3				456.9	**380**	**20.4**	0.045	7.1
	12356-196	99-58-0.6				456.0	**290**	**6.88**	0.030	
57	12356-191	99-59-0.1	99-57	35.43725945	-119.0794297	457.5	**55**			
	12356-192	99-59-0.3				456.7	ND			
	12356-193	99-59-0.6				455.8	ND			
58	12356-188	99-60-0.1	99-58	35.43766392	-119.0799257	457.7	41			
	12356-189	99-60-0.3				456.9	ND			
	12356-190	99-60-0.6				456.0	ND			
59	12356-185	99-61-0.1	99-59	35.43805415	-119.0804212	458.0	**440**	**12.8**	0.050	
	12356-186	99-61-0.3				457.3	**75**			
	12356-187	99-61-0.6				456.4	31			
60	12356-182	99-62-0.1	99-60	35.43844193	-119.0809155	458.0	**280**	**17.5**	0.12	7.3
	12356-183	99-62-0.3				457.2	43			
	12356-184	99-62-0.6				456.3	ND			
61	12356-180	99-63-0.1	99-61	35.43883395	-119.0814051	457.2	**220**	**13.6**	0.073	6.9
	12356-181	99-63-0.3				456.5	**140**	**5.84**	0.033	
		99-63-0.6					NS			
62	12356-177	99-64-0.1	99-62	35.43922406	-119.0818966	457.1	**160**	**6.92**	ND	
	12356-178	99-64-0.3				456.4	**64**			
	12356-179	99-64-0.6				455.5	**54**			
63	12356-174	99-65-0.1	99-63	35.43960676	-119.082426	456.8	**210**	**9.27**	0.086	7.2
	12356-175	99-65-0.3				456.1	ND			
	12356-176	99-65-0.6				455.2	ND			
64	12356-171	99-66-0.1	99-64	35.44011398	-119.082922	460.0	**550**	**31.8**	0.37	
	12356-172	99-66-0.3				459.2	**170**	**15.5**	0.036	7.4
	12356-173	99-66-0.6				458.3	**120**	**6.27**	0.084	
65	12356-168	99-67-0.1	99-65	35.44049865	-119.0834041	459.2	**100**	**11.2**	ND	
	12356-169	99-67-0.3				458.5	**62**			
	12356-170	99-67-0.6				457.6	**57**			
66	12356-165	99-68-0.1	99-66	35.44088876	-119.0838996	457.7	**160**	**6.01**	0.028	
	12356-166	99-68-0.3				456.9	**130**	4.57		
	12356-167	99-68-0.6				456.0	**67**			
67	12356-162	99-69-0.1	99-67	35.44118375	-119.0843249	469.3	**270**	**11.8**	ND	
	12356-163	99-69-0.3				468.5	45			
	12356-164	99-69-0.6				467.6	**150**	**6.36**	ND	
68	12356-159	99-70-0.1	99-68	35.44161734	-119.084846	459.4	**140**	**5.82**	0.012	
	12356-160	99-70-0.3				458.7	**120**	**5.14**	0.028	
	12356-161	99-70-0.6				457.8	30			

TABLE 1
GPS Coordinates and
Lead Analytical Results
Kern County State Route 99 PM 29.5 to 31.1
EA 06-421801

Location Number	Lab ID	Sample Number (Boring ID with depth in meters)	GPS Location ID	Latitude	Longitude	MSL	EPA 7420 Total Lead (mg/kg)	WET 6010 STLC Lead (mg/L)	DI WET 6010 STLC Lead (mg/L)	EPA 9045 pH
69	12356-156	99-71-0.1	99-69	35.44199935	-119.0853939	459.3	**780**	**37.5**	0.093	6.3
	12356-157	99-71-0.3				458.6	**320**	**19.5**	0.027	
	12356-158	99-71-0.6				457.6	**280**	**12.6**	0.018	
70	12356-153	99-72-0.1	99-70	35.44236794	-119.0859801	459.1	**410**	**26.2**	0.12	7.2
	12356-154	99-72-0.3				458.3	**81**	2.19		
	12356-155	99-72-0.6				457.4	34			7.0
71	12356-150	99-73-0.1	99-71	35.44268553	-119.0865513	458.3	**73**			
	12356-151	99-73-0.3				457.6	**54**			
	12356-152	99-73-0.6				456.7	**75**			
72	12356-147	99-74-0.1	99-72	35.44298874	-119.0871249	459.3	**480**	**8.80**	ND	
	12356-148	99-74-0.3				458.6	ND			
	12356-149	99-74-0.6				457.7	ND			
73	12356-144	99-75-0.1	99-73	35.44327103	-119.0877164	461.5	**100**	**5.13**	ND	
	12356-145	99-75-0.3				460.7	41			
	12356-146	99-75-0.6				459.8	30			
74	12356-141	99-76-0.1	99-74	35.44353307	-119.088326	462.0	31			
	12356-142	99-76-0.3				461.3	ND			
	12356-143	99-76-0.6				460.4	**120**	3.37		
75	12356-138	99-77-0.1	99-75	35.44377489	-119.0889474	462.2	**120**	**10.5**	ND	
	12356-139	99-77-0.3				461.5	**180**	4.57		
	12356-140	99-77-0.6				460.6	**150**	4.14		
76	12356-135	99-78-0.1	99-76	35.44401721	-119.0895725	464.7	**90**	3.02		
	12356-136	99-78-0.3				463.9	**62**			
	12356-137	99-78-0.6				463.0	42			
77	12356-132	99-79-0.1	99-77	35.44427273	-119.0902346	463.6	**52**			
	12356-133	99-79-0.3				462.9	**110**	**36.1**	ND	7.5
	12356-134	99-79-0.6				462.0	**50**			
78	12356-129	99-80-0.1	99-78	35.44452735	-119.0908334	463.0	**540**	**22.4**	0.27	
	12356-130	99-80-0.3				462.2	**470**	**21.5**	0.48	7.3
	12356-131	99-80-0.6				461.3	**480**	**8.67**	0.15	
79	12356-127	99-81-0.1	99-79	35.44480821	-119.0914376	463.7	**160**	4.85		
	12356-128	99-81-0.3				463.0	**150**	1.83		
		99-81-0.6					NS			

Notes:
ND = not detected at analytical reporting limit
NS = not sampled (refusal)
mg/kg = milligrams per kilogram
mg/l = milligrams per liter
EPA (Environmental Protection Agency) 7420 reporting limit = 30 mg/kg
WET (Waste Extraction Test) reporting limit = 0.05 mg/l
DI (Deionized) WET reporting limit = 0.01 mg/l
GPS = Global Positioning System
Lattitude in degrees
Longitude in degrees; negative sign is unavoidable artifact occurring as a result of data transfer from the corrected raw data files into the Excel 97 ™ spreadsheet document.
Altitude in feet relative to the mean sea level (feet MSL); values are height corrected at the time of measurement.
STLC = Soluble Threshold Limit Concentration

TABLE 2
SUMMARY OF THE
LABORATORY ANALYTICAL PROGRAM
Kern County State Route 99 PM 29.5 to 31.1
Contract No. 43A0012
Task Order No. 06-421801-TP

Route	Boring No.	Accumulative Boring Depths (approx. feet)	No. of Borings	No. of Sample Refusals	No. of Samples at 0.1, 0.3, 0.6 meters	No. of Total Lead Tests (USEPA 7420)	No. of Total Lead Results > 1000 mg/kg	No. of WETs	No. of WET Results > 5 mg/l	No. of DI WETs	No. of DI WET Results > 0.5 mg/l	No. of Soil pH Tests (Method 9045)
99 PM 29.5/31.1	99-01-0.1 to 99-81-0.6	172.7	79	3	234	234	1	85	58	58	1	23

Notes:
No. = number
> = greater than

TABLE 3
Lead Statistics
Kern County State Route 99 PM 29.5 to 31.1

EA 06-421801

Total Lead Reporting Limit = 30 mg/kg

All Sample Intervals	Total Lead mg/kg	Total Lead LN(X)	Soluble Lead WET mg/l	Soluble Lead LN(X)	Soluble Lead DI WET mg/l	Soluble Lead LN(X)
99-01-0.1	38	3.64				
99-01-0.3	**190**	5.25	**6.54**	1.88	0.018	-4.02
99-01-0.6	39	3.66				
99-02-0.1	**190**	5.25	**8.43**	2.13	0.005	-5.30
99-02-0.3	15	2.71				
99-02-0.6	33	3.50				
99-03-0.1	**410**	6.02	**15.0**	2.71	0.017	-4.07
99-03-0.3	15	2.71				
99-03-0.6	34	3.53				
99-04-0.1	39	3.66				
99-04-0.3	15	2.71				
99-04-0.6	34	3.53				
99-05-0.1	**250**	5.52	**9.41**	2.24	0.022	-3.82
99-05-0.3	15	2.71				
99-05-0.6	30	3.40				
99-06-0.1	**240**	5.48	**6.84**	1.92	0.013	-4.34
99-06-0.3	37	3.61				
99-06-0.6	39	3.66				
99-07-0.1	**81**	4.39	1.90	0.64		
99-07-0.3	15	2.71				
99-07-0.6	15	2.71				
99-08-0.1	36	3.58				
99-08-0.3	15	2.71				
99-08-0.6	15	2.71				
99-09-0.1	**99**	4.60	3.40	1.22		
99-09-0.3	32	3.47				
99-09-0.6	33	3.50				
99-10-0.1	**130**	4.87	1.47	0.39		
99-10-0.3	33	3.50				
99-10-0.6	15	2.71				
99-11-0.1	48	3.87				
99-11-0.3	34	3.53				
99-11-0.6	15	2.71				
99-12-0.1	**56**	4.03				
99-12-0.3	31	3.43				
99-12-0.6	15	2.71				
99-13-0.1	**50**	3.91				
99-13-0.3	15	2.71				
99-13-0.6	15	2.71				
99-14-0.1	**110**	4.70	4.18	1.43		
99-14-0.3	15	2.71				
99-14-0.6	15	2.71				
99-15-0.1	**65**	4.17				
99-15-0.3	42	3.74				
99-15-0.6	36	3.58				
99-16-0.1	42	3.74				
99-16-0.3	15	2.71				
99-16-0.6	15	2.71				

TABLE 3
Lead Statistics
Kern County State Route 99 PM 29.5 to 31.1

EA 06-421801

Total Lead Reporting Limit = 30 mg/kg

All Sample Intervals	Total Lead mg/kg	Total Lead LN(X)	Soluble Lead WET mg/l	Soluble Lead LN(X)	Soluble Lead DI WET mg/l	Soluble Lead LN(X)
99-17-0.1	45	3.81				
99-17-0.3	15	2.71				
99-17-0.6	15	2.71				
99-18-0.1	**59**	4.08				
99-18-0.3	15	2.71				
99-18-0.6	15	2.71				
99-19-0.1	15	2.71				
99-19-0.3	15	2.71				
99-19-0.6	15	2.71				
99-20-0.1	42	3.74				
99-20-0.3	15	2.71				
99-20-0.6	15	2.71				
99-21-0.1	15	2.71				
99-21-0.3	15	2.71				
99-21-0.6	15	2.71				
99-22-0.1	15	2.71				
99-22-0.3	15	2.71				
99-22-0.6	15	2.71				
99-23-0.1	15	2.71				
99-23-0.3	15	2.71				
99-23-0.6	15	2.71				
99-24-0.1	48	3.87				
99-24-0.3	15	2.71				
99-24-0.6	15	2.71				
99-25-0.1	**190**	5.25	**7.47**	2.01	0.005	-5.30
99-25-0.3	15	2.71				
99-25-0.6	15	2.71				
99-26-0.1	**92**	4.52	4.33	1.47		
99-26-0.3	15	2.71				
99-26-0.6	15	2.71				
99-27-0.1	15	2.71				
99-27-0.3	15	2.71				
99-27-0.6	15	2.71				
99-28-0.1	**74**	4.30				
99-28-0.3	15	2.71				
99-28-0.6	15	2.71				
99-29-0.1	15	2.71				
99-29-0.3	15	2.71				
99-29-0.6	15	2.71				
99-30-0.1	**84**	4.43	0.933	-0.07		
99-30-0.3	15	2.71				
99-30-0.6	15	2.71				
99-31-0.1	**220**	5.39	**11.9**	2.48	0.037	-3.30
99-31-0.3	15	2.71				
99-31-0.6	15	2.71				
99-32-0.1	**85**	4.44	1.64	0.49		
99-32-0.3	15	2.71				
99-32-0.6	15	2.71				

TABLE 3
Lead Statistics
Kern County State Route 99 PM 29.5 to 31.1

EA 06-421801

Total Lead Reporting Limit = 30 mg/kg

All Sample Intervals	Total Lead mg/kg	Total Lead LN(X)	Soluble Lead WET mg/l	Soluble Lead LN(X)	Soluble Lead DI WET mg/l	Soluble Lead LN(X)
99-33-0.1	**490**	6.19	**17.0**	2.83	0.078	-2.55
99-33-0.3	15	2.71				
99-33-0.6	15	2.71				
99-34-0.1	**270**	5.60	**19.1**	2.95	0.040	-3.22
99-34-0.3	15	2.71				
99-34-0.6	15	2.71				
99-35-0.1	**110**	4.70	3.41	1.23		
99-35-0.3	15	2.71				
99-35-0.6	15	2.71				
99-36-0.1	**240**	5.48	**10.8**	2.38	0.012	-4.42
99-36-0.3	15	2.71				
99-36-0.6	15	2.71				
99-37-0.1	**84**	4.43	2.79	1.03		
99-37-0.3	15	2.71				
99-37-0.6	15	2.71				
99-38-0.1	**75**	4.32				
99-38-0.3	15	2.71				
99-38-0.6	36	3.58				
99-39-0.1	**160**	5.08	**5.59**	1.72	0.012	-4.42
99-39-0.3	31	3.43				
99-39-0.6	15	2.71				
99-40-0.1	**62**	4.13				
99-40-0.3	15	2.71				
99-40-0.6	37	3.61				
99-41-0.1	**290**	5.67	**8.64**	2.16	0.005	-5.30
99-41-0.3	15	2.71				
99-41-0.6	15	2.71				
99-42-0.1	**55**	4.01				
99-42-0.3	**61**	4.11				
99-42-0.6	15	2.71				
99-45-0.1	**150**	5.01	**8.88**	2.18	0.033	-3.41
99-45-0.3	**110**	4.70	3.88	1.36		
99-45-0.6	**130**	4.87	**5.49**	1.70	0.071	-2.65
99-46-0.1	**240**	5.48	**7.26**	1.98	0.036	-3.32
99-46-0.3	**170**	5.14	4.34	1.47		
99-46-0.6	**120**	4.79	4.76	1.56		
99-47-0.1	**430**	6.06	**11.1**	2.41	0.037	-3.30
99-47-0.3	**150**	5.01	**9.06**	2.20	0.040	-3.22
99-47-0.6	**230**	5.44	**5.09**	1.63	0.005	-5.30
99-48-0.1	**180**	5.19	**8.66**	2.16	0.034	-3.38
99-48-0.3	44	3.78				
99-48-0.6	15	2.71				
99-49-0.1	**130**	4.87	3.92	1.37		
99-49-0.3	**120**	4.79	3.92	1.37		
99-49-0.6	**96**	4.56	2.06	0.72		
99-50-0.1	**100**	4.61	4.40	1.48		
99-50-0.3	**170**	5.14	**6.18**	1.82	0.005	-5.30
99-50-0.6	**88**	4.48	3.98	1.38		

TABLE 3
Lead Statistics
Kern County State Route 99 PM 29.5 to 31.1

EA 06-421801

Total Lead Reporting Limit = 30 mg/kg

All Sample Intervals	Total Lead mg/kg	Total Lead LN(X)	Soluble Lead WET mg/l	Soluble Lead LN(X)	Soluble Lead DI WET mg/l	Soluble Lead LN(X)
99-51-0.1	**90**	4.50	**11.7**	2.46	0.005	-5.30
99-51-0.3	**120**	4.79	**5.76**	1.75	0.036	-3.32
99-51-0.6	**100**	4.61	4.12	1.42		
99-52-0.1	**270**	5.60	**11.3**	2.42	0.041	-3.19
99-52-0.3	**260**	5.56	**11.3**	2.42	0.11	-2.21
99-52-0.6	NS					
99-53-0.1	**310**	5.74	**29.8**	3.39	0.092	-2.39
99-53-0.3	**150**	5.01	**7.98**	2.08	0.077	-2.56
99-53-0.6	39	3.66				
99-54-0.1	**1,100**	7.00	**39.4**	3.67	0.90	-0.11
99-54-0.3	**360**	5.89	**18.8**	2.93	0.17	-1.77
99-54-0.6	**180**	5.19	**5.85**	1.77	0.064	-2.75
99-55-0.1	**97**	4.57	2.58	0.95		
99-55-0.3	**58**	4.06				
99-55-0.6	15	2.71				
99-56-0.1	**55**	4.01				
99-56-0.3	40	3.69				
99-56-0.6	**56**	4.03				
99-57-0.1	41	3.71				
99-57-0.3	15	2.71				
99-57-0.6	15	2.71				
99-58-0.1	**340**	5.83	**23.9**	3.17	0.24	-1.43
99-58-0.3	**380**	5.94	**20.4**	3.02	0.045	-3.10
99-58-0.6	**290**	5.67	**6.88**	1.93	0.030	-3.51
99-59-0.1	**55**	4.01				
99-59-0.3	15	2.71				
99-59-0.6	15	2.71				
99-60-0.1	41	3.71				
99-60-0.3	15	2.71				
99-60-0.6	15	2.71				
99-61-0.1	**440**	6.09	**12.8**	2.55	0.050	-3.00
99-61-0.3	**75**	4.32				
99-61-0.6	31	3.43				
99-62-0.1	**280**	5.63	**17.5**	2.86	0.12	-2.12
99-62-0.3	43	3.76				
99-62-0.6	15	2.71				
99-63-0.1	**220**	5.39	**13.6**	2.61	0.073	-2.62
99-63-0.3	**140**	4.94	**5.84**	1.76	0.033	-3.41
99-63-0.6	NS					
99-64-0.1	**160**	5.08	**6.92**	1.93	0.005	-5.30
99-64-0.3	**64**	4.16				
99-64-0.6	**54**	3.99				
99-65-0.1	**210**	5.35	**9.27**	2.23	0.086	-2.45
99-65-0.3	15	2.71				
99-65-0.6	15	2.71				
99-66-0.1	**550**	6.31	**31.8**	3.46	0.37	-0.99
99-66-0.3	**170**	5.14	**15.5**	2.74	0.036	-3.32
99-66-0.6	**120**	4.79	**6.27**	1.84	0.084	-2.48

TABLE 3
Lead Statistics
Kern County State Route 99 PM 29.5 to 31.1
EA 06-421801
Total Lead Reporting Limit = 30 mg/kg

All Sample Intervals	Total Lead mg/kg	Total Lead LN(X)	Soluble Lead WET mg/l	Soluble Lead LN(X)	Soluble Lead DI WET mg/l	Soluble Lead LN(X)
99-67-0.1	**100**	4.61	**11.2**	2.42	0.005	-5.30
99-67-0.3	**62**	4.13				
99-67-0.6	**57**	4.04				
99-68-0.1	**160**	5.08	**6.01**	1.79	0.028	-3.58
99-68-0.3	**130**	4.87	4.57	1.52		
99-68-0.6	**67**	4.20				
99-69-0.1	**270**	5.60	**11.8**	2.47	0.005	-5.30
99-69-0.3	45	3.81				
99-69-0.6	**150**	5.01	**6.36**	1.85	0.005	-5.30
99-70-0.1	**140**	4.94	**5.82**	1.76	0.012	-4.42
99-70-0.3	**120**	4.79	**5.14**	1.64	0.028	-3.58
99-70-0.6	30	3.40				
99-71-0.1	**780**	6.66	**37.5**	3.62	0.093	-2.38
99-71-0.3	**320**	5.77	**19.5**	2.97	0.027	-3.61
99-71-0.6	**280**	5.63	**12.6**	2.53	0.018	-4.02
99-72-0.1	**410**	6.02	**26.2**	3.27	0.12	-2.12
99-72-0.3	**81**	4.39	2.19	0.78		
99-72-0.6	34	3.53				
99-73-0.1	**73**	4.29				
99-73-0.3	**54**	3.99				
99-73-0.6	**75**	4.32				
99-74-0.1	**480**	6.17	**8.80**	2.17	0.005	-5.30
99-74-0.3	15	2.71				
99-74-0.6	15	2.71				
99-75-0.1	**100**	4.61	**5.13**	1.64	0.005	-5.30
99-75-0.3	41	3.71				
99-75-0.6	30	3.40				
99-76-0.1	31	3.43				
99-76-0.3	15	2.71				
99-76-0.6	**120**	4.79	3.37	1.21		
99-77-0.1	**120**	4.79	**10.5**	2.35	0.005	-5.30
99-77-0.3	**180**	5.19	4.57	1.52		
99-77-0.6	**150**	5.01	4.14	1.42		
99-78-0.1	**90**	4.50	3.02	1.11		
99-78-0.3	**62**	4.13				
99-78-0.6	42	3.74				
99-79-0.1	**52**	3.95				
99-79-0.3	**110**	4.70	**36.1**	3.59	0.005	-5.30
99-79-0.6	**50**	3.91				
99-80-0.1	**540**	6.29	**22.4**	3.11	0.27	-1.31
99-80-0.3	**470**	6.15	**21.5**	3.07	0.48	-0.73
99-80-0.6	**480**	6.17	**8.67**	2.16	0.15	-1.90
99-81-0.1	**160**	5.08	4.85	1.58		
99-81-0.3	**150**	5.01	1.83	0.60		
99-81-0.6	NS					

TABLE 3
Lead Statistics
Kern County State Route 99 PM 29.5 to 31.1

EA 06-421801

Total Lead Reporting Limit = 30 mg/kg

All Sample Intervals	Total Lead mg/kg	Total Lead LN(X)	Soluble Lead WET mg/l	Soluble Lead LN(X)	Soluble Lead DI WET mg/l	Soluble Lead LN(X)
Lognormal Population Characterization						
mean	99.65	3.92	9.96	1.99	0.08	-3.48
std dev	138.11	1.14	8.46	0.79	0.14	1.35
H (0.95) for UCL		2.34		2.05		2.68
number of samples	234		85		58	
95% UCL	115.26		11.99		0.12	

Notes:

mg/kg = milligrams per kilogram

mg/l = milligrams per liter

0.1 m = sample depth in meters below ground surface.

LN(X) = natural log of total lead concentration.

Total Lead = reported concentration from EPA method 7420 mg/kg.

Soluble Lead = reported concentration from Waste Extraction Test (WET) method and WET using deionized water (DI WET) in mg/l.

Non detects treated as 1/2 of reporting limit: 15 mg/kg for total lead; 0.025 mg/kg for WET; 0.005 mg/kg for DI WET.

NS = not sampled (refusal)

NA = not applicable

mean = arithmetic mean

std dev = standard deviation

H(0.95) for UCL = H value for calculation of one-sided 95% Upper Confidence Level for a lognormal distribution (Gilbert, 1987).

95% UCL = 95% Upper Confidence Level. Interpreted as a 95% confidence that the true mean for a given population is no higher then the calculated value.

ENCROACHMENT PERMIT

TR-0120 (REV. 2/98)

Permit No.	0600-NSV-0437
Dist/Co/Rte/PM	06/KER/99/29.50-31.10
	EA 06-421801-TP
Date	June 6, 2000
Fee Paid	$ EXEMPT
Deposit	$ EXEMPT
Performance Bond Amount (1)	$ N/A
Payment Bond Amount (2)	$ N/A
Bond Company	
Bond Number (1)	
Bond Number (2)	

In compliance with (Check one):

- ☒ Your application of **May 15, 2000**
- ☐ Utility Notice No. _____ of _____
- ☐ Agreement No. _____ of _____
- ☐ Your Reference No. _____

TO:

IT CORPORATION
1433 NORTH MARKET BOULEVARD, SUITE 100
SACRAMENTO, CA 95834

Attn: DON BRANSFORD
Phone: (916) 928-3300

, PERMITTEE

And subject to the following, PERMISSION IS HEREBY GRANTED to:

enter upon State Highway right-of-way on 06-KER-99 between post mile 29.50 and post mile 31.10 to hand auger and obtain soil samples in accordance with Statewide Contract No. 43A0012 Task Order No. 06-421801-TP.

NOTIFICATION: Permittee shall notify Caltrans Contract Manager forty-eight (48) hours prior to initial start of work and additional twenty-four (24) hours for subsequent starts when work schedule is interrupted.

NOTIFY: Gerry White, PH: (559) 243-8233

ADDITIONAL NOTIFICATION: Permittee shall notify Caltrans Permit Inspector two (2) working days prior to starting work.

NOTIFY: Ron Vance, PH: (661) 395-2576

The following attachments are also included as part of this permit (Check applicable):

☒ Yes	☐ No	General Provisions
☐ Yes	☒ No	Utility Maintenance Provisions
☐ Yes	☒ No	Special Provisions
☐ Yes	☒ No	A Cal-OSHA permit required prior to beginning work; # **N/A**

In addition to fee, the permittee will be billed actual costs for:

☐ Yes	☒ No	Review
☐ Yes	☒ No	Inspection
☒ Yes	☐ No	Field Work

(If any Caltrans effort expended)

☐ Yes ☒ No The information in the environmental documentation has been reviewed and is considered prior to approval of this permit.

This permit is void unless the work is complete before **July 31, 2000**

This permit is to be strictly construed and no other work other than specifically mentioned is hereby authorized.

No project work shall be commenced until all other necessary permits and environmental clearances have been obtained.

REP (4) (1)
cc: DO, RWV, STM (2),
ENVIRONMENTAL – GERRY WHITE

ROBERT E. POLYACK (559) 488-4289

APPROVED:

Bart Bohn, Director, District 6 – Central Region

BY:

For Kevin L. Brodie, Chief Permit Branch

FM 91 1436

AUTHORIZED CONTRACTORS:

SPARGER TECHNOLOGY, INC. **CONTACT: RAY JAMES** **(916) 362-8947**

CONTRACTORS: Notwithstanding Item 4. of the attached Department of Transportation Encroachment Permit General Provisions TR-0045 (REV. 10/98), your contractor(s) and/or subcontractor(s), if not named on this permit, are required to apply for and obtain an encroachment permit prior to starting work.

It is the Permittee's responsibility to assure that a copy of this permit, all attachments and plans are available on site for use and viewing by the Contractor and Subcontractors, Caltrans Employees and California Highway Patrol any time work is being accomplished within State Highway right-of-way.

CONSTRUCTION SIGNS: Permittee shall install and maintain appropriate Caltrans Standard construction zone signs whenever work is being performed within the State right-of-way.

TRAFFIC CONTROL: Permittee shall furnish all safety devices and measures, (including changeable message signs and flashing arrow boards) necessary to allow safe passage of traffic through the work area at all times as required in Item 14 of the attached General Provision.

If there is work within six (6) foot of a traffic lane, the permittee shall close the lane by placing appropriate advance signs, flag trees and reflective cones and a Changeable Message Sign (CMS), in conformance with the latest edition of the "Manual of Traffic Controls for Construction and Maintenance Work Zones" and/or the applicable Caltrans Standard Traffic Control System Plan.

If traffic begins to back-up due to the lane closure, permittee will terminate the closure until such time as traffic volume is reduced.

A traffic control company may be used if they have a current Caltrans District 06 Biennial Traffic Control Permit in their possession. If a traffic control company does not have a current Caltrans 06 Permit then they must apply and receive a Double Permit prior to beginning work.

PERMITTEE SHALL NOTIFY CALTRANS CENTRAL VALLEY TRANSPORTATION MANAGEMENT CENTER AT PH: (559) 445-6166 BEFORE BEGINNING A LANE CLOSURE AND WHEN REMOVING A LANE CLOSURE.

EXCAVATION: Any equipment that causes undue damage to existing pavement or highway facilities during operation shall not be allowed to continue and shall be removed from the right-of-way.

Materials generated from excavation shall be placed at locations to cause the least amount of obstruction to traffic. Excavated material, not to be used for backfill, shall be removed from the R/W at the end of each working period or as directed by Caltrans Engineer.

BACKFILL: Backfill of the boring holes may be with sand or concrete slurry.

If drilling is in a paved shoulder area then temporary patching with oil mix surfacing is permissible. Permanent patch shall be completed within 14 days after temporary patch has been placed. Permittee shall maintain all temporary patching in a safe trafficable condition. Permanent pavement and aggregate base thickness shall match the existing.

SURVEY MONUMENTS: Your attention is directed to Standard Specification, Section 7-1.11 Preservation of Property, and Business and Professions Code, Section 8771. Permittee shall physically inspect the work site and locate survey monuments prior to work commencement. Monuments that might be disturbed shall be referenced or reset in accordance with Business and Professions Code.

If feasible, monuments should not be set within the traveled way. All monuments that must be set or perpetuated in paved surfaces, shall be constructed in accordance with Caltrans Standard Specification Section 81, 'Monuments' and Standard Plan A74, Type D, or equal with prior approval of the District Surveys Engineer.

Copies of Corner Records filed or Record of Surveys recorded in compliance with the Business and Professions Code shall be forwarded to the District Surveys Engineer.

MISCELLANEOUS: Work shall be left in a clean, well groomed condition as directed by Caltrans Engineer or Inspector.

Any work not covered by plan or conditions of this permit shall be completed in accordance with current Caltrans Standards as directed by Caltrans Engineer.

All Personnel working within the State Highway right-of-way shall wear the required orange vest, jacket or shirt.

No work shall be accomplished in the state right-of-way on Saturdays, Sundays, after 3:00 p.m. on Fridays, designated legal holidays, on the last work day preceding designated legal holidays, on the next work day following a designated legal holiday. Designated legal holidays are: January 1st, the third Monday in January, February 12th, the third Monday in February, the last Monday in May, July 4th, the first Monday in September, the second Monday in October, November 11th, Thanksgiving Day and the day after, and December 25th. When a designated legal holiday falls on a Sunday, the following Monday shall be a designated legal holiday. When November 11th falls on a Saturday, the preceding Friday shall be a Designated legal holiday. Minor exceptions may be approved, in writing, by the Caltrans Permit Inspector.

DAMAGE: Any damage done to private or public facilities shall be immediately repaired or replaced to the satisfaction of the Caltrans Inspector and/or facility owner at the expense of the Permittee. The Permittee shall be responsible for locating and protecting all underground facilities that may be in work area. Before any excavation the permittee or his contractor shall call USA UNDERGROUND ALERT Ph: 1-800-227-2600.

CONFLICT WITH STATE CONTRACTS: If this work comes in conflict with work in progress under State Construction Contract and both operations cannot be accomplished at the same time, the State Construction Contract work shall take precedence. State Contractor shall have access to the work-site at all times.

FAILURE TO PROPERLY PROVIDE SIGNS AND TRAFFIC CONTROL IN ACCORDANCE WITH CALTRANS STANDARDS AND ADHERE TO ALL REQUIREMENTS IN THIS PERMIT SHALL BE GROUNDS FOR REVOCATION OF THIS PERMIT AND/OR DENIAL OF FUTURE PERMITS.

STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION
ENCROACHMENT PERMIT GENERAL PROVISIONS
TR-0045 (REV. 10/98)

1. AUTHORITY: The Department's authority to issue encroachment permits is provided under, Div. 1, Chpt. 3, Art. 1, Sect. 660 to 734 of the Streets and Highways Code.

2. REVOCATION: Encroachment permits are revocable on five days notice unless otherwise stated on the permit and except as provided by law for public corporations, franchise holders, and utilities. These General Provisions and the Encroachment Permit Utility Provisions are subject to modification or abrogation at any time. Permittees' joint use agreements, franchise rights, reserved rights or any other agreements for operating purposes in State highway right of way are exceptions to this revocation.

3. DENIAL FOR NONPAYMENT OF FEES: Failure to pay permit fees when due can result in rejection of future applications and denial of permits.

4. ASSIGNMENT: No party other than the permittee or permittee's authorized agent is allowed to work under this permit.

5. ACCEPTANCE OF PROVISIONS: Permittee understands and agrees to accept these General Provisions and all attachments to this permit, for any work to be performed under this permit.

6. BEGINNING OF WORK: When traffic is not impacted (see Number 35), the permittee shall notify the Department's representative, two (2) days before the intent to start permitted work. Permittee shall notify the Department's Representative if the work is to be interrupted for a period of five (5) days or more, unless otherwise agreed upon. All work shall be performed on weekdays during regular work hours, excluding holidays, unless otherwise specified in this permit.

7. STANDARDS OF CONSTRUCTION: All work performed within highway right of way shall conform to recognized construction standards and current Department Standard Specifications, Department Standard Plans High and Low Risk Facility Specifications, and Utility Special Provisions. Where reference is made to "Contractor and Engineer," these are amended to be read as "Permittee and Department representative."

8. PLAN CHANGES: Changes to plans, specifications, and permit provisions are not allowed without prior approval from the State representative.

9. INSPECTION AND APPROVAL: All work is subject to monitoring and inspection. Upon completion of work, permittee shall request a final inspection for acceptance and approval by the Department. The local agency permittee shall not give final construction approval to its contractor until final acceptance and approval by the Department is obtained.

10. PERMIT AT WORKSITE: Permittee shall keep the permit package or a copy thereof, at the work site and show it upon request to any Department representative or law enforcement officer. If the permit package is not kept and made available at the work site, the work shall be suspended.

11. CONFLICTING ENCROACHMENTS: Permittee shall yield start of work to ongoing, prior authorized, work adjacent to or within the limits of the project site. When existing encroachments conflict with new work, the permittee shall bear all cost for rearrangements, (e.g., relocation, alteration, removal, etc.).

12. PERMITS FROM OTHER AGENCIES: This permit is invalidated if the permittee has not obtained all permits necessary and required by law, from the Public Utilities Commission of the State of California (PUC), California Occupational Safety and Health Administration (Cal-OSHA), or any other public agency having jurisdiction.

13. PEDESTRIAN AND BICYCLIST SAFETY: A safe minimum passageway of 1.21 meter (4') shall be maintained through the work area at existing pedestrian or bicycle facilities . At no time shall pedestrians be diverted onto a portion of the street used for vehicular traffic. At locations where safe alternate passageways cannot be provided, appropriate signs and barricades shall be installed at the limits of construction and in advance of the limits of construction at the nearest crosswalk or intersection to detour pedestrians to facilities across the street.

14. PUBLIC TRAFFIC CONTROL: As required by law, the permittee shall provide traffic control protection warning signs, lights, safety devices, etc., and take all other measures necessary for traveling public's safety. Day and night time lane closures shall comply with the Manuals of Traffic Controls, Standard Plans, and Standard Specifications for traffic control systems. These General Provisions are not intended to impose upon the permittee, by third parties, any duty or standard of care, greater than or different from, as required by law.

15. MINIMUM INTERFERENCE WITH TRAFFIC: Permittee shall plan and conduct work so as to create the least possible inconvenience to the traveling public; traffic shall not be unreasonably delayed. On conventional highways, permittee shall place properly attired flagger(s) to stop or warn the traveling public in compliance with the Manual of Traffic Controls and Instructions to Flaggers Pamphlet.

16. STORAGE OF EQUIPMENT AND MATERIALS: Equipment and material storage in State right of way shall comply with Standard Specifications, Standard Plans, and Special Provisions. Whenever the permittee places an obstacle within 3.63 m (12') feet of the traveled way, the permittee shall place temporary railing (Type K).

17. CARE OF DRAINAGE: Permittee shall provide alternate drainage for any work interfering with an existing drainage facility in compliance with the Standard Specifications, Standard Plans and/or as directed by the Department's representative.

18. RESTORATION AND REPAIRS IN RIGHT OF WAY: Permittee is responsible for restoration and repair of State highway right of way resulting from permitted work (State Streets and Highways Code, Sections 670 et. seq.).

19. RIGHT OF WAY CLEAN UP: Upon completion of work, permittee shall remove and dispose of all scraps, brush, timber, materials, etc. off the right of way. The aesthetics of the highway shall be as it was before work started.

20. COST OF WORK: Unless stated in the permit, or a separate written agreement, the permittee shall bear all costs incurred for work within the State right of way and waives all claims for indemnification or contribution from the State.

21. ACTUAL COST BILLING: When specified in the permit, the Department will bill the permittee actual costs at the currently set hourly rate for encroachment permits.

22 AS-BUILT PLANS: When required, permittee shall submit one (1) set of as-built plans in compliance with Department's requirements. Plans shall be submitted within thirty (30) days after completion and approval of work.

As-Built plans or accompanying correspondence shall not include disclaimer statements of any kind. Such statements shall constitute non-compliance with these provisions. Failure to provide complete and signed As-Built plans shall be cause for bond or deposit retention by the Department.

23. PERMITS FOR RECORD PURPOSES ONLY: When work in the right of way is within an area under a Joint Use Agreement (JUA) or a Consent to Common Use Agreement (CCUA), a fee exempt permit is issued to the permittee for the purpose of providing a notice and record of work. The Permittee's prior rights shall be preserved without the intention of creating new or different rights or obligations. "Notice and Record Purposes Only" shall be stamped across the face of the permit.

24. BONDING: The permittee shall file bond(s), in advance, in the amount set by the Department. Failure to maintain bond(s) in full force and effect will result in the Department stopping of all work and revoking permit(s). Bonds are not required of public corporations or privately owned utilities, unless permittee failed to comply with the provision and conditions under a prior permit. The surety company is responsible for any latent defects as provided in California Code of Civil Procedures, Section 337.15. Local agency permittee shall comply with requirements established as follows: In recognition that project construction work done on State property will not be directly funded and paid by State, for the purpose of protecting stop notice claimants and the interests of State relative to successful project completion, the local agency permittee agrees to require the construction contractor furnish both a payment and performance bond in the local agency's name with both bonds complying with the requirements set forth in Section 3-1.02 of State's current Standard Specifications before performing any project construction work. The local agency permittee shall defend, indemnify, and hold harmless the State, its officers and employees from all project construction related claims by contractors and all stop notice or mechanic's lien claimants. The local agency also agrees to remedy, in a timely manner and to State's satisfaction, any latent defects occurring as a result of the project construction work.

25. FUTURE MOVING OF INSTALLATIONS: Permittee understands and agrees to rearrange a permitted installation upon request by the Department, for State construction, reconstruction, or maintenance

work on the highway. The permittee at his sole expense, unless under a prior agreement, JUA, or a CCUA, shall comply with said request.

26. **ARCHAEOLOGICAL/HISTORICAL:** If any archaeological or historical resources are revealed in the work vicinity, the permittee shall immediately stop work, notify the Department's representative, retain a qualified archaeologist who shall evaluate the site, and make recommendations to the Department representative regarding the continuance of work.

27. **PREVAILING WAGES:** Work performed by or under a permit may require permittee's contractors and subcontractors to pay appropriate prevailing wages as set by the Department of Industrial Relations. Inquiries or requests for interpretations relative to enforcement of prevailing wage requirements are directed to State of California Department of Industrial Relations, 525 Golden Gate Avenue, San Francisco, California 94102.

28. **RESPONSIBILITY FOR DAMAGE:** The State of California and all officers and employees thereof, including but not limited to the Director of Transportation and the Deputy Director, shall not be answerable or accountable in any manner for injury to or death of any person, including but not limited to the permittee, persons employed by the permittee, persons acting in behalf of the permittee, or for damage to property from any cause. The permittee shall be responsible for any liability imposed by law and for injuries to or death of any person, including but not limited to the permittee, persons employed by the permittee, persons acting in behalf of the permiittee, or for damage to property arising out of work, or other activity permitted and done by the permittee under a permit, or arising out of the failure on the permittee's part to perform his obligations under any permit in respect to maintenance or any other obligations, or resulting from defects or obstructions, or from any cause whatsoever during the progress of the work, or other activity or at any subsequent time, work or other activity is being performed under the obligations provided by and contemplated by the permit.

The permittee shall indemnify and save harmless the State of California, all officers, employees, and State's contractors, thereof, including but not limited to the Director of Transportation and the Deputy Director , from all claims, suits or actions of every name, kind and description brought for or on account of injuries to or death of any person, including but not limited to the permittee, persons employed by the permittee, persons acting in behalf of the permittee and the public, or damage to property resulting from the performance of work or other activity under the permit, or arising out of the failure on the permittee's part to perform his obligations under any permit in respect to maintenance or any other obligations, or resulting from defects or obstructions, or from any cause whatsoever during the progress of the work, or other activity or at any subsequent time, work or other activity is being performed under the obligations provided by and contemplated by the permit, except as otherwise provided by statute.

The duty of the permittee to indemnify and save harmless includes the duties to defend as set forth in Section 2778 of the Civil Code. The permittee waives any and all rights to any type of expressed or implied indemnity against the State, its officers, employees, and State contractors. It is the intent of the parties that the permittee will indemnify and hold harmless the State, its officers, employees, and State's contractors, from any and all claims, suits or actions as set forth above regardless of the existence or degree of fault or negligence, whether active or passive, primary or secondary, on the part of the State, the permittee, persons employed by the permittee, or acting on behalf of the permittee.

For the purpose of this section, "State's contractors" shall include contractors and their subcontractors under contract to the State of California performing work within the limits of this permit.

29. **NO PRECEDENT ESTABLISHED:** This permit is issued with the understanding that it does not establish a precedent.

30. **FEDERAL CIVIL RIGHTS REQUIREMENTS FOR PUBLIC ACCOMMODATION:**
A. The permittee, for himself, his personal representative, successors in interest, and assigns as part of the consideration hereof, does hereby covenant and agree that:
1. No person on the grounds of race, color, or national origin shall be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination in the use of said facilities.
2. That in connection with the construction of any improvements on said lands and the furnishings of services thereon, no discrimination shall be practiced in the selection and retention of first-tier subcontractors in the selection of second-tier subcontractors.
3. That such discrimination shall not be practiced against the public in their access to and use of the facilities and services provided for public accommodations (such as eating, sleeping, rest, recreation), and operation on, over, or under the space of the right of way.
4. That the permittee shall use the premises in compliance with all other requirements imposed pursuant to Title 15, Code of Federal Regulations, Commerce and Foreign Trade, Subtitle A. Office of the Secretary of Commerce, Part 8 (15 C.F.R. Part 8) and as said Regulations may be amended.
B. That in the event of breach of any of the above nondiscrimination covenants, the State shall have the right to terminate the permit and to re-enter and repossess said land and the land and the facilities thereon, and hold the same as if said permit had never been made or issued.

31. **MAINTENANCE OF HIGHWAYS:** The permittee agrees, by acceptance of a permit, to properly maintain any encroachment. This assurance requires the permittee to provide inspection and repair any damage, at permittee's expense, to State facilities resulting from the encroachment.

32. **SPECIAL EVENTS:** In accordance with subdivision (a) of Streets and Highways Code Section 682.5, the Department of Transportation shall not be responsible for the conduct or operation of the permitted activity, and the applicant agrees to defend, indemnify, and hold harmless the State and the city or county against any and all claims arising out of any activity for which the permit is issued.

Permittee understands and agrees that it will comply with the obligations of Titles II and III of the Americans with Disabilities Act of 1990 in the conduct of the event, and further agrees to indemnify and save harmless the State of California, all officers and employees thereof, including but not limited to the Director of Transportation, from any claims or liability arising out of or by virtue of said Act.

33. **PRIVATE USE OF RIGHT OF WAY:** Highway right of way shall not be used for private purposes without compensation to the State. The gifting of public property use and therefore public funds is prohibited under the California Constitution, Article 16.

34. **FIELD WORK REIMBURSEMENT:** Permittee shall reimburse State for field work performed on permittee's behalf to correct or remedy hazards or damaged facilities, or clear debris not attended to by the permittee.

35. **NOTIFICATION OF DEPARTMENT AND TMC:** The permittee shall notify the Department's representative and the Traffic Management Center (TMC) at least 7 days before initiating a lane closure or conducting an activity that may cause a traffic impact. A confirmation notification should occur 3 days before closure or other potential traffic impacts. In emergency situations when the corrective work or the emergency itself may affect traffic, TMC and the Department's representative shall be notified as soon as possible.

36. **SUSPENSION OF TRAFFIC CONTROL OPERATION:** The permittee, upon notification by the Department's representative, shall immediately suspend all lane closure operations and any operation that impedes the flow of traffic. All costs associated with this suspension shall be borne by the permittee.

37. **UNDERGROUND SERVICE ALERT (USA) NOTIFICATION:** Any excavation requires compliance with the provisions of Government Code Section 4216 et. seq., including , but not limited to notice to a regional notification center, such as Underground Service Alert (USA). The permittee shall provide notification at least 48 hours before performing any excavation work within the right of way.

Appendix B

Drilling and Sampling Procedures

The procedures that were used for drilling the borings and collecting soil samples are presented below:

- A standard encroachment permit was obtained from Caltrans. No county drilling permits were required.

Drilling and Soil Sample Collection

- Soil borings were advanced and sampled using hand-held auger soil sampling equipment.
- The drilling and sampling equipment was washed in a detergent rinse, two clear water rinses, and a final deionized/distilled water rinse prior to drilling.
- Soil borings were not logged for lithologic characteristics.
- Soil samples were collected from depths of approximately 0.1, 0.3, and 0.6 meters (0.33, 1.0, and 2.0) feet bgs along SR99. Soil samples were collected by transferring the desired amount of soil from the sampler into a sealable plastic baggie.
- Each sample was labeled with the sample number, date, project number, and sampler's initials.
- Any soil not retained for laboratory analysis was used as backfill.

Sample Retention and Analysis

- Chain-of-custody procedures, including the use of Chain-of-Custody forms, were used to document sample handling and transport from collection to delivery to the laboratory for analysis.
- The samples were retained and placed on ice in insulated chests in the custody of an IT employee. The samples were picked up by a courier supplied by the laboratory, shipped to the laboratory using an overnight courier service, or were delivered to the laboratory by IT personnel. The samples were transported to the laboratory in a motor vehicle.
- Soil samples were labeled with the boring hole number and the sample collection depth. For example, "99-01-0.1" represented the first boring hole ("01) along SR99 collected at a depth of 0.1 meters bgs. See Figure 1 for the Site Location Map showing all SR segments.

- Laboratory quality assurance/quality control procedures are summarized below:

  - Method Blank Frequency = one per 20 samples
  - Matrix Spike/Matrix Spike Duplicate = one per 20 samples
  - Laboratory Control Sample/Laboratory Control Sample Duplicate = one per 20 samples

Sparger Technology, Inc.
With Automation in Mind

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

July 3, 2000

Invoice #: 12356
Project #: 808693
Project Name: State Route 99, Aerially Deposited Lead Investigation

Mr. Dave Foley
IT Corporation
1433 N. Market Blvd., Ste. 1
Sacramento, CA 95834

Mr. Dave Foley,

Enclosed are the analytical results for our Invoice #12356. The samples were received at Sparger Technology Analytical Lab on June 28, 2000.

The samples were received in EPA specified containers. The samples were transported and received under documented chain of custody and stored at four (4) degrees C until analysis was performed.

The report consists of the following sections:

I. Sample Description & Analysis Request
II. Quality Control Report
III. Analysis Results

No problems were encountered with the analysis of your sample.

If you require additional information please give us a call at (916) 362-8947.

Sincerely,

R. L. James
Laboratory Director

3050 Fite Circle, Suite 112 • Sacramento, California 95827 • (916) 362-8947 • FAX (916) 362-0947

SPARGER TECHNOLOGY ANALYTICAL LABS LOG BOOK

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Sparger Technology, Inc.
With Automation in Mind

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

Attention:	Mr. Dave Foley	Date Sampled:	Jun 26, 2000	(Multi) Location:	Kern County, near Bakersfield
Client:	IT Corporation	Date Received:	Jun 28, 2000	TAT:	**48 Hour**
Address:	1433 N. Market Blvd. Ste. 1 Sacramento, CA 95834	Invoice#:	12356JUN00	Due Date:	Jun 30, 2000
				P.O #:	
				Location:	A-Floor
				Logged In By:	Danny
Project #:	808693	Project Name:	State Route 99, Aerially Deposited Lead Investigation		

Contract # 43A0012

Sample Description & Analysis Request

Laboratory ID	Matrix	Sample Date	Sample ID	Method Number	Analysis Notes
12356-001	S	6/26/00	99-01-0.1	6010	Lead
12356-002	S	6/26/00	99-01-0.3	6010	Lead
12356-003	S	6/26/00	99-01-0.6	6010	Lead
12356-004	S	6/26/00	99-02-0.1	6010	Lead
				9045	pH
12356-005	S	6/26/00	99-02-0.3	6010	Lead
12356-006	S	6/26/00	99-02-0.6	6010	Lead
12356-007	S	6/26/00	99-03-0.1	6010	Lead
12356-008	S	6/26/00	99-03-0.3	6010	Lead
12356-009	S	6/26/00	99-03-0.6	6010	Lead
12356-010	S	6/26/00	99-04-0.1	6010	Lead
12356-011	S	6/26/00	99-04-0.3	6010	Lead
12356-012	S	6/26/00	99-04-0.6	6010	Lead
12356-013	S	6/26/00	99-05-0.1	6010	Lead
12356-014	S	6/26/00	99-05-0.3	6010	Lead
12356-015	S	6/26/00	99-05-0.6	6010	Lead
12356-016	S	6/26/00	99-06-0.1	6010	Lead
12356-017	S	6/26/00	99-06-0.3	6010	Lead
12356-018	S	6/26/00	99-06-0.6	6010	Lead
12356-019	S	6/26/00	99-07-0.1	6010	Lead
12356-020	S	6/26/00	99-07-0.3	6010	Lead
12356-021	S	6/26/00	99-07-0.6	6010	Lead

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	Sacramento, CA 95834				P.O #:	
					Location:	A-Floor
Project #:	808693	Project Name:	State Route 99,		Logged in By:	Danny
			Aerially Deposited Lead Investigation			

Contract # 43A0012

Sample Description & Analysis Request

Laboratory ID	Matrix	Sample Date	Sample ID	Method Number	Analysis Notes
12356-022	S	6/26/00	99-08-0.1	6010	Lead
12356-023	S	6/26/00	99-08-0.3	6010	Lead
12356-024	S	6/26/00	99-08-0.6	6010	Lead
12356-025	S	6/26/00	99-09-0.1	6010	Lead
12356-026	S	6/26/00	99-09-0.3	6010	Lead
12356-027	S	6/26/00	99-09-0.6	6010	Lead
				9045	pH
12356-028	S	6/26/00	99-10-0.1	6010	Lead
12356-029	S	6/26/00	99-10-0.3	6010	Lead
12356-030	S	6/26/00	99-10-0.6	6010	Lead
12356-031	S	6/26/00	99-11-0.1	6010	Lead
12356-032	S	6/26/00	99-11-0.3	6010	Lead
12356-033	S	6/26/00	99-11-0.6	6010	Lead
12356-034	S	6/26/00	99-12-0.1	6010	Lead
12356-035	S	6/26/00	99-12-0.3	6010	Lead
12356-036	S	6/26/00	99-12-0.6	6010	Lead
12356-037	S	6/26/00	99-13-0.1	6010	Lead
12356-038	S	6/26/00	99-13-0.3	6010	Lead
12356-039	S	6/26/00	99-13-0.6	6010	Lead
12356-040	S	6/26/00	99-14-0.1	6010	Lead
12356-041	S	6/26/00	99-14-0.3	6010	Lead
				9045	pH

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					Location:	A-Floor
					Logged In By:	Danny
Project #:	808693	Project Name:	State Route 99, Aerially Deposited Lead Investigation			

Contract # 43A0012

Sample Description & Analysis Request

Laboratory ID	Matrix	Sample Date	Sample ID	Method Number	Analysis Notes
12356-042	S	6/26/00	99-14-0 6	6010	Lead
12356-043	S	6/26/00	99-15-0 1	6010	Lead
12356-044	S	6/26/00	99-15-0 3	6010	Lead
12356-045	S	6/26/00	99-15-0 6	6010	Lead
12356-046	S	6/26/00	99-16-0 1	6010	Lead
12356-047	S	6/26/00	99-16-0 3	6010	Lead
12356-048	S	6/26/00	99-16-0 6	6010	Lead
12356-049	S	6/26/00	99-17-0 1	6010	Lead
12356-050	S	6/26/00	99-17-0 3	6010	Lead
12356-051	S	6/26/00	99-17-0 6	6010	Lead
12356-052	S	6/26/00	99-18-0 1	6010	Lead
12356-053	S	6/26/00	99-18-0 3	6010	Lead
12356-054	S	6/26/00	99-18-0 6	6010	Lead
12356-055	S	6/26/00	99-19-0 1	6010	Lead
12356-056	S	6/26/00	99-19-0 3	6010	Lead
12356-057	S	6/26/00	99-19-0 6	6010	Lead
12356-058	S	6/26/00	99-20-0 1	6010	Lead
12356-059	S	6/26/00	99-20-0 3	6010	Lead
12356-060	S	6/26/00	99-20-0 6	6010	Lead
12356-061	S	6/26/00	99-21-0 1	6010	Lead
12356-062	S	6/26/00	99-21-0 3	6010	Lead
12356-063	S	6/26/00	99-21-0 6	6010	Lead

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	Sacramento, CA 95834				P.O #:	
					Location:	A-Floor
Project #:	808693	Project Name:	State Route 99,		**Logged in By:**	Danny
			Aerially Deposited Lead Investigation			

Contract # 43A0012

Sample Description & Analysis Request

Laboratory ID	Matrix	Sample Date	Sample ID	Method Number	Analysis Notes
12356-064	S	6/26/00	99-22-0.1	6010	Lead
12356-065	S	6/26/00	99-22-0.3	6010	Lead
12356-066	S	6/26/00	99-22-0.6	6010	Lead
12356-067	S	6/26/00	99-23-0.1	6010	Lead
12356-068	S	6/26/00	99-23-0.3	6010	Lead
12356-069	S	6/26/00	99-23-0.6	6010	Lead
12356-070	S	6/26/00	99-24-0.1	6010	Lead
12356-071	S	6/26/00	99-24-0.3	6010	Lead
12356-072	S	6/26/00	99-24-0.6	6010	Lead
				9045	pH
12356-073	S	6/26/00	99-25-0.1	6010	Lead
12356-074	S	6/26/00	99-25-0.3	6010	Lead
12356-075	S	6/26/00	99-25-0.6	6010	Lead
12356-076	S	6/26/00	99-26-0.1	6010	Lead
12356-077	S	6/26/00	99-26-0.3	6010	Lead
12356-078	S	6/26/00	99-26-0.6	6010	Lead
12356-079	S	6/26/00	99-27-0.1	6010	Lead
12356-080	S	6/26/00	99-27-0.3	6010	Lead
12356-081	S	6/26/00	99-27-0.6	6010	Lead
12356-082	S	6/26/00	99-28-0.1	6010	Lead
12356-083	S	6/26/00	99-28-0.3	6010	Lead
				9045	pH

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	Sacramento, CA 95834			P.O #:	
				Location:	A Floor
Project #:	808693	Project Name:	State Route 99,	Logged in By:	Danny
			Aerially Deposited Lead Investigation		

Contract # 43A0012

Sample Description & Analysis Request

Laboratory ID	Matrix	Sample Date	Sample ID	Method Number	Analysis Notes
12356 084	S	6/26/00	99-28-0 6	6010	Lead
12356 085	S	6/26/00	99-29-0 10	6010	Lead
12356 086	S	6/26/00	99-28-0 3	6010	Lead
12356 087	S	6/26/00	99-30-0 6	6010	Lead
12356 088	S	6/26/00	99-30-0 10	6010	Lead
12356 089	S	6/26/00	99-30-0 3	6010	Lead
12356 090	S	6/26/00	99-30-0 6	6010	Lead
12356 091	S	6/27/00	99-31-0 3	6010	Lead
12356 092	S	6/27/00	99-31-0 6	6010	Lead
12356 093	S	6/27/00	99-31-0 6	6010	Lead
12356 094	S	6/27/00	99-32-0 1	6010	Lead
				9045	pH
12356 095	S	6/27/00	99-32-0 3	6010	Lead
12356 096	S	6/27/00	99-32-0 6	6010	Lead
12356 097	S	6/27/00	99-33-0 1	6010	Lead
12356 098	S	6/27/00	99-33-0 3	6010	Lead
12356 099	S	6/27/00	99-33-0 6	6010	Lead
12356 100	S	6/27/00	99-34-0 1	6010	Lead
12356 101	S	6/27/00	99-34-0 3	6010	Lead
12356 102	S	6/27/00	99-34-0 6	6010	Lead
12356 103	S	6/27/00	99-35-0 1	6010	Lead
12356 104	S	6/27/00	99-35-0 3	6010	Lead

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Project #:	808693	Project Name:	State Route 99,	Logged in By:	Danny
			Aerially Deposited Lead Investigation		

Contract # 43A0012

Sample Description & Analysis Request

Laboratory ID	Matrix	Sample Date	Sample ID	Method Number	Analysis Notes
12356-105	S	6/27/00	99-35-0.6	6010	Lead
12356-106	S	6/27/00	99-36-0.1	6010	Lead
12356-107	S	6/27/00	99-36-0.3	6010	Lead
12356-108	S	6/27/00	99-36-0.6	6010	Lead
12356-109	S	6/27/00	99-37-0.1	6010	Lead
12356-110	S	6/27/00	99-37-0.3	6010	Lead
12356-111	S	6/27/00	99-37-0.6	6010	Lead
12356-112	S	6/27/00	99-38-0.1	6010	Lead
12356-113	S	6/27/00	99-38-0.3	6010	Lead
12356-114	S	6/27/00	99-38-0.6	6010	Lead
12356-115	S	6/27/00	99-39-0.1	6010	Lead
12356-116	S	6/27/00	99-39-0.3	6010	Lead
12356-117	S	6/27/00	99-39-0.6	6010	Lead
12356-118	S	6/27/00	99-40-0.1	6010	Lead
12356-119	S	6/27/00	99-40-0.3	6010	Lead
12356-120	S	6/27/00	99-40-0.6	6010	Lead
12356-121	S	6/27/00	99-41-0.1	6010	Lead
12356-122	S	6/27/00	99-41-0.3	6010	Lead
12356-123	S	6/27/00	99-41-0.6	6010	Lead
12356-124	S	6/27/00	99-42-0.1	6010	Lead
12356-125	S	6/27/00	99-42-0.3	6010	Lead
12356-126	S	6/27/00	99-42-0.6	6010	Lead

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	Sacramento, CA 95834				P.O #:	
					Location:	A-Floor
Project #:	808693	Project Name:	State Route 99,		Logged In By:	Danny
			Aerially Deposited Lead Investigation			

Contract # 43A0012

Sample Description & Analysis Request

Laboratory ID	Matrix	Sample Date	Sample ID	Method Number	Analysis Notes
12356-127	S	6/27/00	99-81-0.1	6010	Lead
12356-128	S	6/27/00	99-81-0.3	6010	Lead
12356-129	S	6/27/00	99-80-0.1	6010	Lead
12356-130	S	6/27/00	99-80-0.3	6010	Lead
12356-131	S	6/27/00	99-80-0.6	6010	Lead
12356-132	S	6/27/00	99-79-0.1	6010	Lead
12356-133	S	6/27/00	99-79-0.3	6010 9045	Lead pH
12356-134	S	6/27/00	99-79-0.6	6010	Lead
12356-135	S	6/27/00	99-78-0.1	6010	Lead
12356-136	S	6/27/00	99-78-0.3	6010	Lead
12356-137	S	6/27/00	99-78-0.6	6010	Lead
12356-138	S	6/27/00	99-77-0.1	6010	Lead
12356-139	S	6/27/00	99-77-0.3	6010	Lead
12356-140	S	6/27/00	99-77-0.6	6010	Lead
12356-141	S	6/27/00	99-76-0.1	6010	Lead
12356-142	S	6/27/00	99-76-0.3	6010	Lead
12356-143	S	6/27/00	99-76-0.6	6010	Lead
12356-144	S	6/27/00	99-75-0.1	6010	Lead
12356-145	S	6/27/00	99-75-0.3	6010	Lead
12356-146	S	6/27/00	99-75-0.6	6010	Lead
12356-147	S	6/27/00	99-74-0.1	6010	Lead

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Attention:	Mr. Dave Foley	Date Sampled:	Jun 26, 2000	(Multi)	Kern County, near Bakersfield
Client:	IT Corporation	Date Received:	Jun 28, 2000		48 Hour
Address:	1433 N. Market Blvd. Ste. 1	Invoice#:	12356JUN00		Jun 30, 2000
	Sacramento, CA 95834			P.O.	
					A-Floor
Project #:	808693	Project Name:	State Route 99,		Danny
			Aerially Deposited Lead Investigation		

Contract # 43A0012

Sample Description & Analysis Request

Laboratory ID	Matrix	Sample Date	Sample ID	Method Number	Analysis Notes
12356-148	S	6/27/00	99-74-0.3	6010	Lead
12356-149	S	6/27/00	99-74-0.6	6010	Lead
12356-150	S	6/27/00	99-73-0.1	6010	Lead
12356-151	S	6/27/00	99-73-0.3	6010	Lead
12356-152	S	6/27/00	99-73-0.6	6010	Lead
12356-153	S	6/27/00	99-72-0.1	6010	Lead
12356-154	S	6/27/00	99-72-0.3	6010	Lead
12356-155	S	6/27/00	99-72-0.6	6010	Lead
				9045	pH
12356-156	S	6/27/00	99-71-0.1	6010	Lead
12356-157	S	6/27/00	99-71-0.3	6010	Lead
12356-158	S	6/27/00	99-71-0.6	6010	Lead
12356-159	S	6/27/00	99-70-0.1	6010	Lead
12356-160	S	6/27/00	99-70-0.3	6010	Lead
12356-161	S	6/27/00	99-70-0.6	6010	Lead
12356-162	S	6/27/00	99-69-0.1	6010	Lead
12356-163	S	6/27/00	99-69-0.3	6010	Lead
12356-164	S	6/27/00	99-69-0.6	6010	Lead
12356-165	S	6/27/00	99-68-0.1	6010	Lead
12356-166	S	6/27/00	99-68-0.3	6010	Lead
12356-167	S	6/27/00	99-68-0.6	6010	Lead
12356-168	S	6/27/00	99-67-0.1	6010	Lead

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Scientific Division

Attention:	Mr. Dave Foley	Date Sampled:	Jun 26, 2000	(Multi)	Location:	Kern County, near Bakersfield
Client:	IT Corporation	Date Received:	Jun 28, 2000		TAT:	**48 Hour**
Address:	1433 N. Market Blvd. Ste. 1	Invoice#:	12356JUN00		Due Date:	Jun 30, 2000
	Sacramento, CA 95834				P.O #:	
					Location:	A-Floor
					Logged In By:	Danny
Project #:	808693	Project Name:	State Route 99, Aerially Deposited Lead Investigation			

Contract # 43A0012

Sample Description & Analysis Request

Laboratory ID	Matrix	Sample Date	Sample ID	Method Number	Analysis Notes
12356-169	S	6/27/00	99-67-0.3	6010	Lead
12356-170	S	6/27/00	99-67-0.6	6010	Lead
12356-171	S	6/27/00	99-66-0.15	6010	Lead
12356-172	S	6/27/00	99-66-0.3	6010	Lead
				9045	pH
12356-173	S	6/27/00	99-66-0.6	6010	Lead
12356-174	S	6/27/00	99-65-0.3	6010	Lead
12356-175	S	6/27/00	99-65-0.6	6010	Lead
12356-176	S	6/27/00	99-65-0.9	6010	Lead
12356-177	S	6/27/00	99-64-0.15	6010	Lead
12356-178	S	6/27/00	99-64-0.3	6010	Lead
12356-179	S	6/27/00	99-64-0.6	6010	Lead
12356-180	S	6/27/00	99-63-0.1	6010	Lead
12356-181	S	6/27/00	99-63-0.3	6010	Lead
12356-182	S	6/27/00	99-62-0.15	6010	Lead
12356-183	S	6/27/00	99-62-0.3	6010	Lead
12356-184	S	6/27/00	99-62-0.6	6010	Lead
12356-185	S	6/27/00	99-61-0.3	6010	Lead
12356-186	S	6/27/00	99-61-0.6	6010	Lead
12356-187	S	6/27/00	99-61-0.9	6010	Lead
12356-188	S	6/27/00	99-60-0.1	6010	Lead
12356-189	S	6/27/00	99-60-0.3	6010	Lead

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Attention:	Mr. Dave Foley	Date Sampled:	Jun 26, 2000	(Multi)	Location:	Kern County, near Bakersfield
Client:	IT Corporation	Date Received:	Jun 28, 2000		TAT:	**48 Hour**
Address:	1433 N. Market Blvd. Ste. 1	Invoice#:	12356JUN00		Due Date:	Jun 30, 2000
	Sacramento, CA 95834				P.O #:	
					Location:	A-Floor
Project #:	808693	Project Name:	State Route 99,		Logged in By:	Danny
			Aerially Deposited Lead Investigation			

Contract # 43A0012

Sample Description & Analysis Request

Laboratory ID	Matrix	Sample Date	Sample ID	Method Number	Analysis Notes
12356-190	S	6/27/00	99-60-0.6	6010	Lead
12356-191	S	6/27/00	99-59-0.1	6010	Lead
12356-192	S	6/27/00	99-59-0.3	6010	Lead
12356-193	S	6/27/00	99-59-0.6	6010	Lead
12356-194	S	6/27/00	99-58-0.1	6010	Lead
12356-195	S	6/27/00	99-58-0.3	6010	Lead
12356-196	S	6/27/00	99-58-0.6	6010	Lead
12356-197	S	6/27/00	99-57-0.1	6010	Lead
12356-198	S	6/27/00	99-57-0.3	6010	Lead
12356-199	S	6/27/00	99-57-0.6	6010	Lead
12356-200	S	6/27/00	99-56-0.1	6010	Lead
12356-201	S	6/27/00	99-56-0.3	6010	Lead
12356-202	S	6/27/00	99-56-0.6	6010	Lead
12356-203	S	6/27/00	99-55-0.1	6010	Lead
12356-204	S	6/27/00	99-55-0.3	6010	Lead
12356-205	S	6/27/00	99-55-0.6	6010	Lead
12356-206	S	6/27/00	99-54-0.1	6010	Lead
12356-207	S	6/27/00	99-54-0.3	6010	Lead
12356-208	S	6/27/00	99-54-0.6	6010	Lead
12356-209	S	6/27/00	99-53-0.1	6010	Lead
12356-210	S	6/27/00	99-53-0.3	6010	Lead
12356-211	S	6/27/00	99-53-0.6	6010	Lead

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Attention:	Mr. Dave Foley	Date Sampled:	Jun 26, 2000	(Multi)	Location:	Kern County, near Bakersfield
Client:	IT Corporation	Date Received:	Jun 28, 2000		TAT:	**48 Hour**
Address:	1433 N. Market Blvd. Ste. 1	Invoice#:	12356JUN00		Due Date:	Jun 30, 2000
	Sacramento, CA 95834				P.O #:	
					Location:	A-Floor
					Logged in By:	Danny
Project #:	808693	Project Name:	State Route 99, Aerially Deposited Lead Investigation			

Contract # 43A0012

Sample Description & Analysis Request

Laboratory ID	Matrix	Sample Date	Sample ID	Method Number	Analysis Notes
12356-212	S	6/27/00	99-52-0.1	6010	Lead
12356-213	S	6/27/00	99-52-0.3	6010	Lead
12356-214	S	6/27/00	99-51-0.1	6010	Lead
12356-215	S	6/27/00	99-51-0.3	6010	Lead
12356-216	S	6/27/00	99-51-0.6	6010	Lead
12356-217	S	6/27/00	99-50-0.1	6010	Lead
12356-218	S	6/27/00	99-50-0.3	6010	Lead
12356-219	S	6/27/00	99-50-0.6	6010	Lead
				9045	pH
12356-220	S	6/27/00	99-49-0.1	6010	Lead
12356-221	S	6/27/00	99-49-0.3	6010	Lead
12356-222	S	6/27/00	99-49-0.6	6010	Lead
12356-223	S	6/27/00	99-48-0.1	6010	Lead
12356-224	S	6/27/00	99-48-0.3	6010	Lead
12356-225	S	6/27/00	99-48-0.6	6010	Lead
12356-226	S	6/27/00	99-47-0.1	6010	Lead
12356-227	S	6/27/00	99-47-0.3	6010	Lead
12356-228	S	6/27/00	99-47-0.6	6010	Lead
12356-229	S	6/27/00	99-46-0.1	6010	Lead
12356-230	S	6/27/00	99-46-0.3	6010	Lead
12356-231	S	6/27/00	99-46-0.6	6010	Lead
12356-232	S	6/27/00	99-45-0.1	6010	Lead

SPARGER TECHNOLOGY ANALYTICAL LABS LOG BOOK

Attention:	Mr. Dave Foley	Date Sampled:	Jun 26, 2000	(Multi)	Location:	Kern County, near Bakersfield
Client:	IT Corporation	Date Received:	Jun 27, 2000		TAT:	**48 Hour**
Address:	1433 N. Market Blvd. Ste. 1	Invoice#:	12356JUN00		Due Date:	Jun 30, 2000
	Sacramento, CA 95834				P.O #:	
					[illegible]	A-Floor
Project #:	808693	Project Name:	State Route 99,		[illegible] by:	Danny
			Aerially Deposited Lead Investigation			

Contract # 43A0012

Sample Description & Analysis Request

Laboratory ID	Matrix	Sample Date	Sample ID	Method Number	Analysis Notes
				9045	pH
12356 233	S	6/27/00	99-45-0.3	6010	Lead
12356 234	S	6/27/00	99-45-0.6	6010	Lead

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II Quality Control

A. **Project Specific QC.** No project specific QC (i.e., spikes and/or duplicates) was requested.

B. **Method Blank Results.** A method blank is a laboratory-generated sample which assesses the degree to which laboratory operations and procedures cause false-positive analytical results for your sample.

No target parameters were detected in the method blank associated with your sample at the reporting limit levels noted on the data sheets in the Analytical Results section.

C. **Laboratory Control Spike.** A Laboratory Control Spike (LCS) is a sample which is spiked with known analyte concentrations, and analyzed at approximately 10% of the sample load in order to establish method-specific control limits. The LCS results associated with your samples are on the attached Laboratory Control Spike and Laboratory Control Spike Duplicate Analysis Report.

D. **Matrix Spike Results.** A Matrix Spike is a sample which is spiked with known analyte concentrations, and analyzed at approximately 10% of the sample load in order to establish method-specific control limits. The Matrix Spike results associated with your samples are on the attached Matrix Spike and Matrix Spike Duplicate Analysis Report.

Accuracy is measured by Percent Recovery as in:

$$\% \text{ recovery} = \frac{(\text{measured concentration}) \times 100}{(\text{actual concentration})}$$

III Analysis Results

Results are on the attached data sheets.

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EPA Method 9045
pH

Attention:	Mr. Dave Foley	Date Sampled:	Jun 26, 2000	(Multi)
	IT Corporation	Date Received:	Jun 28, 2000	
	1433 N. Market Blvd. Ste. 1	Date Analyzed:	June 29, 2000	
	Sacramento, CA 9583[illegible]	Invoice #:	12356JUN00	
Project #:	808693	Project Name:	[illegible] Route 12, Aerially Deposited Lead Investigation	
Matrix:	Soil	Units:	[illegible]	

	Lab ID	Client ID	Result	Note
pH	12356-[illegible]	[illegible]	[illegible]	N.A.
pH	12356-027	[illegible]	8.1	N.A.
pH	12356-041	99-14-0.3	8.3	N.A.
pH	12356-072	99-24-0.6	7.9	N.A.
pH	12356-083	99-28-0.3	6.4	N.A.
pH	12356-094	99-32-0.1	7.5	N.A.
pH	12356-133	99-79-0.3	7.5	N.A.
pH	12356-155	99-72-0.6	7.0	N.A.
pH	12356-172	99-66-0.3	7.4	N.A.
pH	12356-219	99-50-0.6	7.2	N.A.
pH	12356-232	99-45-0.1	7.4	N.A.

N.A. = Not Applicable
N.D. = Not Detected. Compound(s) may be present at concentrations below the detection limit.
N.R. = Not Requested.

E. McKinnney, Inorganics Manager

Jun 29, 2000
Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY (Certification No. 1614)

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Sparger Technology, Inc.
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Scientific Division

EPA Method 7420
Lead
Method Blank

Attention:	Mr. Dave Foley IT Corporation 1433 N. Market Blvd., Suite 1 Sacramento, CA 95834	Date Sampled: Date Received: Date Analyzed: Invoice # :	Jun 26, 2000 Jun 28, 2000 Jun 29, 2000 12356JUN00	(Multi)
Project #:	808693	Project Name:	State Route 99, Aerially Deposited Lead Investigation	
Client ID:	Method Blank	LAB ID:	000628B	
Matrix:	Soil	Dilution: 1:	1	

Analyte	Concentration	Reporting Limit	Units
Lead	ND	30	mg/kg

ppm= parts per million = mg/kg = milligram per kilogram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

E. McKinney, Inorganics Manager

Jun 29, 2000
Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY

(Certification No. 1614)

7420(S).xls

Sparger Technology, Inc.
With Automation in Mind

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

EPA Method 7420
Lead
LCS/LCSD Recoveries

Attention: Mr. Dave Foley
IT Corporation
1433 N. Market Blvd., Suite 1
Sacramento, CA 95834

Date Sampled: Jun 26, 2000
Date Received: Jun 28, 2000
Date Analyzed: Jun 29, 2000
Invoice # : 12356JUN00

Project #: 808693

Project Name: State Route 99, Aerially Deposited Lead Investigation

Client ID: LCS/LCSD

LAB ID:

Matrix: Soil

Dilution: 1: 1

Units: (mg/kg)

Analyte	Spike Conc.	LCS	LCS% Recovery	LCSD	LCSD% Recovery	% RPD
Lead	500	474	94.8%	456	91.2%	3.9%

ppm= parts per million = mg/kg = milligram per kilogram
ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

E. McKinney, Inorganics Manager

Jun 29, 2000
Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
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Sparger Technology, Inc.
With Automation in Mind

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Mobile Laboratory Division
Scientific Division

EPA Method 7420
Lead
MS / MSD Recoveries

Attention:	Mr. Dave Foley IT Corporation 1433 N. Market Blvd., Suite 1 Sacramento, CA 95834	Date Sampled: Date Received: Date Analyzed: Invoice # :	Jun 26, 2000 Jun 28, 2000 Jun 29, 2000 12356JUN00
Project #:	808693	Project Name:	State Route 99, Aerially Deposited Lead Investigation
Client ID:	MS/MSD	LAB ID:	12356-001
Matrix:	Soil	Dilution: 1:	1

Units: (mg/kg)

Analyte	Sample Conc.	Spike Conc.	MS	MS % Recovery	MSD	MSD % Recovery	% RPD
Lead	38	250	350	125%	345	123%	1.6%

ppm= parts per million = mg/kg = milligram per kilogram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

Note: If sample concentration is higher than spike concentration, recoveries may be either high or low.

Note: If sample concentration is lower than spike concentration, recoveries may be either high or low due to matrix interference.

E.McKinney, Inorganics Manager

Jun 29, 2000
Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1614)

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Sparger Technology, Inc.
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Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

EPA Method 7420
Lead
Analysis Report

Attention:	Mr. Dave Foley	Date Sampled:	Jun 26, 2000
	IT Corporation	Date Received:	Jun 28, 2000
	1433 N. Market Blvd., Suite 1	Date Analyzed:	Jun 29, 2000
	Sacramento, CA 95834	Invoice # :	12356JUN00
Project #:	808693	Project Name:	State Route 99, Ashley Deposition Lead Investigation
Matrix:	Soil	Dilution:	1

Lab ID	Client ID	Concentration	Reporting Limit	Units
12356-001	99-01-0.1	38	30	mg/kg
12356-002	99-01-0.3	190	30	mg/kg
12356-003	99-01-0.6	39	30	mg/kg
12356-004	99-02-0.1	190	30	mg/kg
12356-005	99-02-0.3	ND	30	mg/kg
12356-006	99-02-0.6	33	30	mg/kg
12356-007	99-03-0.1	410	30	mg/kg
12356-008	99-03-0.3	ND	30	mg/kg
12356-009	99-03-0.6	34	30	mg/kg
12356-010	99-04-0.1	39	30	mg/kg
12356-011	99-04-0.3	ND	30	mg/kg
12356-012	99-04-0.6	34	30	mg/kg
12356-013	99-05-0.1	250	30	mg/kg
12356-014	99-05-0.3	ND	30	mg/kg
12356-015	99-05-0.6	30	30	mg/kg
12356-016	99-06-0.1	240	30	mg/kg
12356-017	99-06-0.3	37	30	mg/kg
12356-018	99-06-0.6	39	30	mg/kg
12356-019	99-07-0.1	81	30	mg/kg
12356-020	99-07-0.3	ND	30	mg/kg

ppm= parts per million = mg/kg = milligram per kilogram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

E. McKinney, Inorganics Manager

Jun 29, 2000
Date Reported

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Sparger Technology, Inc.
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Analytical Laboratory Division
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Scientific Division

EPA Method 7420
Lead
Analysis Report

Attention:	Mr. Dave Foley IT Corporation 1433 N. Market Blvd., Suite 1 Sacramento, CA 95834	Date Sampled: Date Received: Date Analyzed: Invoice # :	Jun 26, 2000 Jun 28, 2000 Jun 29, 2000 12356JUN00
Project #:	808693	Project Name:	State Route 99, Aerially Deposited Lead Investigation
Matrix:	Soil	Dilution: 1:	1

Lab ID	Client ID	Concentration	Reporting Limit	Units
12356-021	99-07-0.6	ND	30	mg/kg
12356-022	99-08-0.1	36	30	mg/kg
12356-023	99-08-0.3	ND	30	mg/kg
12356-024	99-08-0.6	ND	30	mg/kg
12356-025	99-09-0.1	99	30	mg/kg
12356-026	99-09-0.3	32	30	mg/kg
12356-027	99-09-0.6	33	30	mg/kg
12356-028	99-10-0.1	130	30	mg/kg
12356-029	99-10-0.3	33	30	mg/kg
12356-030	99-10-0.6	ND	30	mg/kg
12356-031	99-11-0.1	48	30	mg/kg
12356-032	99-11-0.3	34	30	mg/kg
12356-033	99-11-0.6	ND	30	mg/kg
12356-034	99-12-0.1	56	30	mg/kg
12356-035	99-12-0.3	31	30	mg/kg
12356-036	99-12-0.6	ND	30	mg/kg
12356-037	99-13-0.1	50	30	mg/kg
12356-038	99-13-0.3	ND	30	mg/kg
12356-039	99-13-0.6	ND	30	mg/kg
12356-040	99-14-0.1	110	30	mg/kg

ppm= parts per million = mg/kg = milligram per kilogram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

E. McKinney, Inorganics Manager

Jun 29, 2000
Date Reported

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Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

EPA Method 7420
Lead
Analysis Report

Attention:	Mr. Dave Foley IT Corporation 1433 N. Market Blvd., Suite 1 Sacramento, CA 95834	Date Sampled: Date Received: Date Analyzed: Invoice # :	Jun 26, 2000 Jun 28, 2000 Jun 29, 2000 12356JUN00
Project #:	808693	Project Name:	State Route 99, Aerially Deposited Lead Investigation
Matrix:	Soil	Dilution: 1:	1

Lab ID	Client ID	Concentration	Reporting Limit	Units
12356-041	99-14-0.3	ND	30	mg/kg
12356-042	99-14-0.6	ND	30	mg/kg
12356-043	99-15-0.1	65	30	mg/kg
12356-044	99-15-0.3	42	30	mg/kg
12356-045	99-15-0.6	36	30	mg/kg
12356-046	99-16-0.1	42	30	mg/kg
12356-047	99-16-0.3	ND	30	mg/kg
12356-048	99-16-0.6	ND	30	mg/kg
12356-049	99-17-0.1	45	30	mg/kg
12356-050	99-17-0.3	ND	30	mg/kg
12356-051	99-17-0.6	ND	30	mg/kg
12356-052	99-18-0.1	59	30	mg/kg
12356-053	99-18-0.3	ND	30	mg/kg
12356-054	99-18-0.6	ND	30	mg/kg
12356-055	99-19-0.1	ND	30	mg/kg
12356-056	99-19-0.3	ND	30	mg/kg
12356-057	99-19-0.6	ND	30	mg/kg
12356-058	99-20-0.1	42	30	mg/kg
12356-059	99-20-0.3	ND	30	mg/kg
12356-060	99-20-0.6	ND	30	mg/kg

ppm= parts per million = mg/kg = milligram per kilogram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

E. McKinney, Inorganics Manager

Jun 29, 2000
Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1614)

3050 Fite Circle, Suite 112 • Sacramento, California 95827 • (916) 362-8947 • FAX (916) 362-0947

Sparger Technology, Inc.
With Automation in Mind

Analytical Laboratory Division
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Scientific Division

EPA Method 7420
Lead
Analysis Report

Attention:	Mr. Dave Foley IT Corporation 1433 N. Market Blvd., Suite 1 Sacramento, CA 95834	Date Sampled: Date Received: Date Analyzed: Invoice # :	Jun 26, 2000 Jun 28, 2000 Jun 29, 2000 12356JUN00
Project #:	808693	Project Name:	State Route 99, Aerially Deposited Lead Investigation
Matrix:	Soil	Dilution: 1:	1

Lab ID	Client ID	Concentration	Reporting Limit	Units
12356-061	99-21-0.1	ND	30	mg/kg
12356-062	99-21-0.3	ND	30	mg/kg
12356-063	99-21-0.6	ND	30	mg/kg
12356-064	99-22-0.1	ND	30	mg/kg
12356-065	99-22-0.3	ND	30	mg/kg
12356-066	99-22-0.6	ND	30	mg/kg
12356-067	99-23-0.1	ND	30	mg/kg
12356-068	99-23-0.3	ND	30	mg/kg
12356-069	99-23-0.6	ND	30	mg/kg
12356-070	99-24-0.1	48	30	mg/kg
12356-071	99-24-0.3	ND	30	mg/kg
12356-072	99-24-0.6	ND	30	mg/kg
12356-073	99-25-0.1	190	30	mg/kg
12356-074	99-25-0.3	ND	30	mg/kg
12356-075	99-25-0.6	ND	30	mg/kg
12356-076	99-26-0.1	92	30	mg/kg
12356-077	99-26-0.3	ND	30	mg/kg
12356-078	99-26-0.6	ND	30	mg/kg
12356-079	99-27-0.1	ND	30	mg/kg
12356-080	99-27-0.3	ND	30	mg/kg

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Analysis Report

Attention:	Mr. Dave Foley	Date Sampled:	Jun 26, 2000
	IT Corporation	Date Received:	Jun 28, 2000
	1433 N. Market Blvd., Suite 1	Date Analyzed:	Jun 29, 2000
	Sacramento, CA 95834	Invoice # :	12356JUN00
Project #:	808693	Project Name:	State Route 99, Arena[illegible] Deposited Lead Investigation
Matrix:	Soil	Dilution:	1

Lab ID	Client ID	Concentration	Reporting Limit	Units
12356-081	99-27-0.6	ND	30	mg/kg
12356-082	99-28-0.1	74	30	mg/kg
12356-083	99-28-0.3	ND	30	mg/kg
12356-084	99-28-0.6	ND	30	mg/kg
12356-085	99-29-0.1	ND	30	mg/kg
12356-086	99-29-0.3	ND	30	mg/kg
12356-087	99-29-0.6	ND	30	mg/kg
12356-088	99-30-0.1	84	30	mg/kg
12356-089	99-30-0.3	ND	30	mg/kg
12356-090	99-30-0.6	ND	30	mg/kg
12356-091*	99-31-0.1	220	30	mg/kg
12356-092*	99-31-0.3	ND	30	mg/kg
12356-093*	99-31-0.6	ND	30	mg/kg
12356-094*	99-32-0.1	85	30	mg/kg
12356-095*	99-32-0.3	ND	30	mg/kg
12356-096*	99-32-0.6	ND	30	mg/kg
12356-097*	99-33-0.1	490	30	mg/kg
12356-098*	99-33-0.3	ND	30	mg/kg
12356-099*	99-33-0.6	ND	30	mg/kg
12356-100*	99-34-0.1	270	30	mg/kg

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*** Sampled on 6/27/2000**

E. McKinney, Inorganics Manager

Jun 29, 2000
Date Reported

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	IT Corporation	Date Received:	Jun 28, 2000
	1433 N. Market Blvd., Suite 1	Date Analyzed:	Jun 29, 2000
	Sacramento, CA 95834	Invoice # :	12356JUN00
Project #:	808693	Project Name:	State Route 99, Aerially Deposited Lead Investigation
Matrix:	Soil	Dilution: 1:	1

Lab ID	Client ID	Concentration	Reporting Limit	Units
12356-101	99-34-0.3	ND	30	mg/kg
12356-102	99-34-0.6	ND	30	mg/kg
12356-103	99-35-0.1	110	30	mg/kg
12356-104	99-35-0.3	ND	30	mg/kg
12356-105	99-35-0.6	ND	30	mg/kg
12356-106	99-36-0.1	240	30	mg/kg
12356-107	99-36-0.3	ND	30	mg/kg
12356-108	99-36-0.6	ND	30	mg/kg
12356-109	99-37-0.1	84	30	mg/kg
12356-110	99-37-0.3	ND	30	mg/kg
12356-111	99-37-0.6	ND	30	mg/kg
12356-112	99-38-0.1	75	30	mg/kg
12356-113	99-38-0.3	ND	30	mg/kg
12356-114	99-38-0.6	36	30	mg/kg
12356-115	99-39-0.1	160	30	mg/kg
12356-116	99-39-0.3	31	30	mg/kg
12356-117	99-39-0.6	ND	30	mg/kg
12356-118	99-40-0.1	62	30	mg/kg
12356-119	99-40-0.3	ND	30	mg/kg
12356-120	99-40-0.6	37	30	mg/kg

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Analysis Report

Attention:	Mr. Dave Foley	Date Sampled:	Jun 27, 2000
	IT Corporation	Date Received:	Jun 28, 2000
	1433 N. Market Blvd., Suite 1	Date Analyzed:	Jun 29, 2000
	Sacramento, CA 95834	Invoice # :	12356JUN00
Project #:	808693	Project Name:	State Route 99, Aerially Deposited Lead Investigation
Matrix:	Soil	Dilution:	1: 1

Lab ID	Client ID	Concentration	Reporting Limit	Units
12356-121	99-41-0.1	220	30	mg/kg
12356-122	99-41-0.3	ND	30	mg/kg
12356-123	99-41-0.6	ND	30	mg/kg
12356-124	99-42-0.1	55	30	mg/kg
12356-125	99-42-0.3	61	30	mg/kg
12356-126	99-42-0.6	ND	30	mg/kg
12356-127	99-81-0.1	160	30	mg/kg
12356-128	99-81-0.3	150	30	mg/kg
12356-129	99-80-0.1	540	30	mg/kg
12356-130	99-80-0.3	470	30	mg/kg
12356-131	99-80-0.6	480	30	mg/kg
12356-132	99-79-0.1	52	30	mg/kg
12356-133	99-79-0.3	110	30	mg/kg
12356-134	99-79-0.6	50	30	mg/kg
12356-135	99-78-0.1	90	30	mg/kg
12356-136	99-78-0.3	62	30	mg/kg
12356-137	99-78-0.6	42	30	mg/kg
12356-138	99-77-0.1	120	30	mg/kg
12356-139	99-77-0.3	180	30	mg/kg
12356-140	99-77-0.6	150	30	mg/kg

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Analysis Report

Attention:	Mr. Dave Foley	Date Sampled:	Jun 27, 2000
	IT Corporation	Date Received:	Jun 28, 2000
	1433 N. Market Blvd., Suite 1	Date Analyzed:	Jun 29, 2000
	Sacramento, CA 95834	Invoice # :	12356JUN00
Project #:	808693	Project Name:	State Route 99, Aerially Deposited Lead Investigation
Matrix:	Soil	Dilution: 1:	1

Lab ID	Client ID	Concentration	Reporting Limit	Units
12356-141	99-76-0.1	31	30	mg/kg
12356-142	99-76-0.3	ND	30	mg/kg
12356-143	99-76-0.6	120	30	mg/kg
12356-144	99-75-0.1	100	30	mg/kg
12356-145	99-75-0.3	41	30	mg/kg
12356-146	99-75-0.6	30	30	mg/kg
12356-147	99-74-0.1	480	30	mg/kg
12356-148	99-74-0.3	ND	30	mg/kg
12356-149	99-74-0.6	ND	30	mg/kg
12356-150	99-73-0.1	73	30	mg/kg
12356-151	99-73-0.3	54	30	mg/kg
12356-152	99-73-0.6	75	30	mg/kg
12356-153	99-72-0.1	410	30	mg/kg
12356-154	99-72-0.3	81	30	mg/kg
12356-155	99-72-0.6	34	30	mg/kg
12356-156	99-71-0.1	780	30	mg/kg
12356-157	99-71-0.3	320	30	mg/kg
12356-158	99-71-0.6	280	30	mg/kg
12356-159	99-70-0.1	140	30	mg/kg
12356-160	99-70-0.3	120	30	mg/kg

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Lead
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Attention:	Mr. Dave Foley	Date Sampled:	Jun 27, 2000
	IT Corporation	Date Received:	Jun 28, 2000
	1433 N. Market Blvd., Suite 2	Date Analyzed:	Jun 29, 2000
	Sacramento, CA 95834	Invoice # :	12356JUN00
Project #:	803633	Project Name:	State Route 99, Airport Deposited Lead Remediation
Matrix:	Soil	Dilution: 1:	1

Lab ID	Client ID	Concentration	Reporting Limit	Units
12356-161	99-70-0.3	33	30	mg/kg
12356-162	99-69-0.1	270	30	mg/kg
12356-163	99-69-0.3	45	30	mg/kg
12356-164	99-69-0.6	150	30	mg/kg
12356-165	99-68-0.1	160	30	mg/kg
12356-166	99-68-0.3	130	30	mg/kg
12356-167	99-68-0.6	67	30	mg/kg
12356-168	99-67-0.1	100	30	mg/kg
12356-169	99-67-0.3	62	30	mg/kg
12356-170	99-67-0.6	57	30	mg/kg
12356-171	99-66-0.1	550	30	mg/kg
12356-172	99-66-0.3	170	30	mg/kg
12356-173	99-66-0.6	120	30	mg/kg
12356-174	99-65-0.1	210	30	mg/kg
12356-175	99-65-0.3	ND	30	mg/kg
12356-176	99-65-0.6	ND	30	mg/kg
12356-177	99-64-0.1	160	30	mg/kg
12356-178	99-64-0.3	64	30	mg/kg
12356-179	99-64-0.6	54	30	mg/kg
12356-180	99-63-0.1	220	30	mg/kg

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Project #:	808693	Project Name:	State Route 99, Aerially Deposited Lead Investigation
Matrix:	Soil	Dilution: 1:	1

Lab ID	Client ID	Concentration	Reporting Limit	Units
12356-181	99-63-0.3	140	30	mg/kg
12356-182	99-62-0.1	280	30	mg/kg
12356-183	99-62-0.3	43	30	mg/kg
12356-184	99-62-0.6	ND	30	mg/kg
12356-185	99-61-0.1	440	30	mg/kg
12356-186	99-61-0.3	75	30	mg/kg
12356-187	99-61-0.6	31	30	mg/kg
12356-188	99-60-0.1	41	30	mg/kg
12356-189	99-60-0.3	ND	30	mg/kg
12356-190	99-60-0.6	ND	30	mg/kg
12356-191	99-59-0.1	55	30	mg/kg
12356-192	99-59-0.3	ND	30	mg/kg
12356-193	99-59-0.6	ND	30	mg/kg
12356-194	99-58-0.1	340	30	mg/kg
12356-195	99-58-0.3	380	30	mg/kg
12356-196	99-58-0.6	290	30	mg/kg
12356-197	99-57-0.1	41	30	mg/kg
12356-198	99-57-0.3	ND	30	mg/kg
12356-199	99-57-0.6	ND	30	mg/kg
12356-200	99-56-0.1	55	30	mg/kg

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Project #:	808693	Project Name:	State Route 99, Aerially Deposited Lead Investigation
Matrix:	Soil	Dilution: 1:	1

Lab ID	Client ID	Concentration	Reporting Limit	Units
12356-221	99-49-0.3	120	30	mg/kg
12356-222	99-49-0.6	96	30	mg/kg
12356-223	99-48-0.1	180	30	mg/kg
12356-224	99-48-0.3	44	30	mg/kg
12356-225	99-48-0.6	ND	30	mg/kg
12356-226	99-47-0.1	430	30	mg/kg
12356-227	99-47-0.3	150	30	mg/kg
12356-228	99-47-0.6	230	30	mg/kg
12356-229	99-46-0.1	240	30	mg/kg
12356-230	99-46-0.3	170	30	mg/kg
12356-231	99-46-0.6	120	30	mg/kg
12356-232	99-45-0.1	150	30	mg/kg
12356-233	99-45-0.3	110	30	mg/kg
12356-234	99-45-0.6	130	30	mg/kg

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EPA Method 7420
Lead
Analysis Report

Attention: Mr. Dave Foley
IT Corporation
1433 N. Market Blvd., Suite 1
Sacramento, CA 95834

Date Sampled: Jun 27, 2000
Date Received: Jun 28, 2000
Date Analyzed: Jun 29, 2000
Invoice # : 12356JUN00

Project #: 808693

Project Name: State Route 99, Aerially Deposited Lead Investigation

Matrix: Soil

Dilution: 1: 1

Lab ID	Client ID	Concentration	Reporting Limit	Units
12356-201	99-56-0.3	40	30	mg/kg
12356-202	99-56-0.6	56	30	mg/kg
12356-203	99-55-0.1	97	30	mg/kg
12356-204	99-55-0.3	58	30	mg/kg
12356-205	99-55-0.6	ND	30	mg/kg
12356-206	99-54-0.1	1100	30	mg/kg
12356-207	99-54-0.3	360	30	mg/kg
12356-208	99-54-0.6	180	30	mg/kg
12356-209	99-53-0.1	310	30	mg/kg
12356-210	99-53-0.3	150	30	mg/kg
12356-211	99-53-0.6	39	30	mg/kg
12356-212	99-52-0.1	270	30	mg/kg
12356-213	99-52-0.3	260	30	mg/kg
12356-214	99-51-0.1	90	30	mg/kg
12356-215	99-51-0.3	120	30	mg/kg
12356-216	99-51-0.6	100	30	mg/kg
12356-217	99-50-0.1	100	30	mg/kg
12356-218	99-50-0.3	170	30	mg/kg
12356-219	99-50-0.6	88	30	mg/kg
12356-220	99-49-0.1	130	30	mg/kg

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3050 Fite Circle, Suite 112 • Sacramento, California 95827 • (916) 362-8947 • FAX (916) 362-0947

"A" Floor

INTERNATIONAL TECHNOLOGY CORPORATION

12356

CHAIN OF CUSTODY

Sparger Technology, Inc.
3050 Fite Circle, Suite 112, Sacramento, CA 95827
(916) 362-8947 Fax: (916) 362-0947

Project: State Route 99, Aerially Deposited Lead Investigation
Location: Kern County, near Bakersfield
Project # 808693
Task Order # 06-421801-TP EA No. 06-421801-TP
Contract #: 43A0012

9045

No.	Sample ID: boring # depth (m)	Date	Time	Container	Matrix	EPA 7420: Lead Only	Soil pH	Turnaround Time
1	99- 0.1-0.1	6/26/00	1252	plastic baggies	Soil	X		48 hour
2	99- 0.3	6/26/00	1254	plastic baggies	Soil	X		48 hour
3	99- 0.6	6/26/00	1256	plastic baggies	Soil	X		48 hour
4	99- 0.2-0.1	6/26/00	1258	plastic baggies	Soil	X	X	48 hour
5	99- 0.3	6/26/00	1300	plastic baggies	Soil	X		48 hour
6	99- 0.6	6/26/00	1302	plastic baggies	Soil	X		48 hour
7	99- 0.3-0.1	6/26/00	1304	plastic baggies	Soil	X		48 hour
8	99- 0.3	6/26/00	1340	plastic baggies	Soil	X		48 hour
9	99- 0.6	6/26/00	1341	plastic baggies	Soil	X		48 hour
10	99- 0.4-0.1	6/26/00	1253	plastic baggies	Soil	X		48 hour
11	99- 0.3	6/26/00	1057	plastic baggies	Soil	X		48 hour
12	99- 0.6	6/26/00	1100	plastic baggies	Soil	X		48 hour
13	99- 0.1	6/26/00	1111	plastic baggies	Soil	X		48 hour
14	99- 0.3	6/26/00	1113	plastic baggies	Soil	X		48 hour
15	99- 0.6	6/26/00	1116	plastic baggies	Soil	X		48 hour
16	99- 0.5-0.1	6/26/00	1125	plastic baggies	Soil	X		48 hour
17	99- 0.3	6/26/00	1132	plastic baggies	Soil	X		48 hour
18	99- 0.6	6/26/00	1128	plastic baggies	Soil	X		48 hour
19	99- 0.7-0.1	6/26/00	1312	plastic baggies	Soil	X		48 hour
20	99- 0.3	6/26/00	1311	plastic baggies	Soil	X		48 hour
21	99- 0.6	6/26/00	1314	plastic baggies	Soil	X		48 hour
22	99- 0.5-0.1	6/26/00	1321	plastic baggies	Soil	X		48 hour
23	99- 0.3	6/26/00	1323	plastic baggies	Soil	X		48 hour
24	99- 0.6	6/26/00	1326	plastic baggies	Soil	X		48 hour
25	99- 0.9-0.1	6/26/00	1333	plastic baggies	Soil	X		48 hour
26	99- 0.3	6/26/00	1336	plastic baggies	Soil	X		48 hour
27	99- 0.6	6/26/00	1338	plastic baggies	Soil	X	X	48 hour

Relinquished by:
Date: 6-28-00
Time: 8:40

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INTERNATIONAL TECHNOLOGY CORPORATION

12356

CHAIN OF CUSTODY

Sparger Technology, Inc.
3050 Fite Circle, Suite 112, Sacramento, CA 95827
(916) 362-8947 Fax: (916) 362-0947

Project: State Route 99, Aerially Deposited Lead Investigation
Location: Kern County, near Bakersfield
Project # 808693
Task Order # 06-421801-TP EA No. 06-421801-TP
Contract #: 43A0012

No.	Sample ID: boring # depth (m)	Date	Time	Container	Matrix	EPA 7420: Lead Only	9450: Soil pH	Turn-around time
1	99-	6/26/00		plastic baggies	Soil	X		48 hour
2	99-	6/26/00		plastic baggies	Soil	X		48 hour
3	99-	6/26/00		plastic baggies	Soil	X		48 hour
4	99-	6/26/00		plastic baggies	Soil	X		48 hour
5	99-	6/26/00		plastic baggies	Soil	X		48 hour
6	99-	6/26/00		plastic baggies	Soil	X		48 hour
7	99-	6/26/00		plastic baggies	Soil	X		48 hour
8	99-	6/26/00		plastic baggies	Soil	X		48 hour
9	99-	6/26/00		plastic baggies	Soil	X		48 hour
10	99-	6/26/00		plastic baggies	Soil	X		48 hour
11	99-	6/26/00		plastic baggies	Soil	X		48 hour
12	99-	6/26/00		plastic baggies	Soil	X		48 hour
13	99-	6/26/00		plastic baggies	Soil	X		48 hour
14	99-	6/26/00		plastic baggies	Soil	X	X	48 hour
15	99-	6/26/00		plastic baggies	Soil	X		48 hour
16	99-	6/26/00		plastic baggies	Soil	X		48 hour
17	99-	6/26/00		plastic baggies	Soil	X		48 hour
18	99-	6/26/00		plastic baggies	Soil	X		48 hour
19	99-	6/26/00		plastic baggies	Soil	X		48 hour
20	99-	6/26/00		plastic baggies	Soil	X		48 hour
21	99-	6/26/00		plastic baggies	Soil	X		48 hour
22	99-	6/26/00		plastic baggies	Soil	X		48 hour
23	99-	6/26/00		plastic baggies	Soil	X		48 hour
24	99-	6/26/00		plastic baggies	Soil	X		48 hour
25	99-	6/26/00		plastic baggies	Soil	X		48 hour
26	99-	6/26/00		plastic baggies	Soil	X		48 hour
27	99-	6/26/00		plastic baggies	Soil	X		48 hour

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INTERNATIONAL TECHNOLOGY CORPORATION

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CHAIN OF CUSTODY

Sparger Technology, Inc.
3050 Fite Circle, Suite 112, Sacramento, CA 95827
(916) 362-8947 Fax: (916) 362-0947

Project: State Route 99, Aerially Deposited Lead Investigation
Location: Kern County, near Bakersfield
Project # 808693
Task Order # 06-421801-TP EA No. 06-421801-TP
Contract #: 43A0012

No.	Sample ID: boring # depth (m)	Date	Time	Container	Matrix	EPA 7420: Lead Only	9450: Soil pH	Turn-around time
1	99-	6/26/00		plastic baggies	Soil	X		48 hour
2	99-	6/26/00		plastic baggies	Soil	X		48 hour
3	99-	6/26/00		plastic baggies	Soil	X		48 hour
4	99-	6/26/00		plastic baggies	Soil	X		48 hour
5	99-	6/26/00		plastic baggies	Soil	X		48 hour
6	99-	6/26/00		plastic baggies	Soil	X		48 hour
7	99-	6/26/00		plastic baggies	Soil	X		48 hour
8	99-	6/26/00		plastic baggies	Soil	X		48 hour
9	99-	6/26/00		plastic baggies	Soil	X		48 hour
10	99-	6/26/00	1540	plastic baggies	Soil	X		48 hour
11	99-	6/26/00	1542	plastic baggies	Soil	X		48 hour
12	99-	6/26/00	1544	plastic baggies	Soil	X		48 hour
13	99-	6/26/00	1547	plastic baggies	Soil	X		48 hour
14	99-	6/26/00		plastic baggies	Soil	X		48 hour
15	99-	6/26/00		plastic baggies	Soil	X		48 hour
16	99-	6/26/00		plastic baggies	Soil	X		48 hour
17	99-	6/26/00		plastic baggies	Soil	X		48 hour
18	99-	6/26/00		plastic baggies	Soil	X		48 hour
19	99-	6/26/00		plastic baggies	Soil	X	✓	48 hour
20	99-	6/26/00		plastic baggies	Soil	X		48 hour
21	99-	6/26/00		plastic baggies	Soil	X		48 hour
22	99-	6/26/00		plastic baggies	Soil	X		48 hour
23	99-	6/26/00		plastic baggies	Soil	X		48 hour
24	99-	6/26/00		plastic baggies	Soil	X		48 hour
25	99-	6/26/00		plastic baggies	Soil	X		48 hour
26	99-	6/26/00		plastic baggies	Soil	X		48 hour
27	99-	6/26/00		plastic baggies	Soil	X		48 hour

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INTERNATIONAL TECHNOLOGY CORPORATION

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CHAIN OF CUSTODY

Sparger Technology, Inc.
3050 Fite Circle, Suite 112, Sacramento, CA 95827
(916) 362-8947 Fax: (916) 362-0947

Project: State Route 99, Aerially Deposited Lead Investigation
Location: Kern County, near Bakersfield
Project # 808693
Task Order # 06-421801-TP EA No. 06-421801-TP
Contract #: 43A0012

No.	Sample ID: boring # depth (m)	Date	Time	Container	Matrix	EPA 7420: Lead Only	9450: Soil pH	Turn-around time
1	99-	6/26/00		plastic baggies	Soil	X		48 hour
2	99-	6/26/00		plastic baggies	Soil	X	X	48 hour
3	99-	6/26/00		plastic baggies	Soil	X		48 hour
4	99-	6/26/00		plastic baggies	Soil	X		48 hour
5	99-	6/26/00		plastic baggies	Soil	X		48 hour
6	99-	6/26/00		plastic baggies	Soil	X		48 hour
7	99-	6/26/00		plastic baggies	Soil	X		48 hour
8	99-	6/26/00		plastic baggies	Soil	X		48 hour
9	99-	6/26/00		plastic baggies	Soil	X		48 hour
~~10~~	~~99-~~	~~6/26/00~~		~~plastic baggies~~	~~Soil~~	~~X~~		48 hour
11	99-	6/26/00		plastic baggies	Soil	X		48 hour
12	99-	6/26/00		plastic baggies	Soil	X		48 hour
13	99-	6/26/00		plastic baggies	Soil	X		48 hour
14	99-	6/26/00		plastic baggies	Soil	X		48 hour
15	99-	6/26/00		plastic baggies	Soil	X		48 hour
16	99-	6/26/00		plastic baggies	Soil	X		48 hour
17	99-	6/26/00		plastic baggies	Soil	X		48 hour
18	99-	6/26/00		plastic baggies	Soil	X		48 hour
19	99-	6/26/00		plastic baggies	Soil	X		48 hour
20	99-	6/26/00		plastic baggies	Soil	X		48 hour
21	99-	6/26/00		plastic baggies	Soil	X		48 hour
22	99-	6/26/00		plastic baggies	Soil	X		48 hour
23	99-	6/26/00		plastic baggies	Soil	X		48 hour
24	99-	6/26/00		plastic baggies	Soil	X		48 hour
25	99-	6/26/00		plastic baggies	Soil	X		48 hour
26	99-	6/26/00		plastic baggies	Soil	X		48 hour
27	99-	6/26/00		plastic baggies	Soil	X		48 hour

Relinquished by:
Date:
Time: 8:40

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Date: 6/26/00
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INTERNATIONAL TECHNOLOGY CORPORATION

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Sparger Technology, Inc.
3050 Fite Circle, Suite 112, Sacramento, CA 95827
(916) 362-8947 Fax: (916) 362-0947

Project: State Route 99, Aerially Deposited Lead Investigation
Location: Kern County, near Bakersfield
Project # 808693
Task Order # 06-421801-TP EA No. 06-421801-TP
Contract #: 43A0012

No.	Sample ID: boring #	depth (m)	Date	Time	Container	Matrix	EPA 7420: Lead Only	9450: Soil pH	Turn-around time
1	99-	0.1	6/27/00	0727	plastic baggies	Soil	X		48 hour
2	99-	0.3	6/27/00	0729	plastic baggies	Soil	X		48 hour
3	99-	0.6	6/27/00	0730	plastic baggies	Soil	X		48 hour
4	99-	0.1	6/27/00	0733	plastic baggies	Soil	X	X	48 hour
5	99-	0.3	6/27/00	0735	plastic baggies	Soil	X		48 hour
6	99-	0.6	6/27/00	0736	plastic baggies	Soil	X		48 hour
7	99-	0.1	6/27/00	0739	plastic baggies	Soil	X		48 hour
8	99-	0.3	6/27/00	0741	plastic baggies	Soil	X		48 hour
9	99-	0.6	6/27/00	0742	plastic baggies	Soil	X		48 hour
10	99- 34	0.1	6/27/00	0745	plastic baggies	Soil	X		48 hour
11	99-	0.3	6/27/00	0751	plastic baggies	Soil	X		48 hour
12	99-	0.6	6/27/00	0753	plastic baggies	Soil	X		48 hour
13	99- 35	0.1	6/27/00	0757	plastic baggies	Soil	X		48 hour
14	99-	0.3	6/27/00	0800	plastic baggies	Soil	X		48 hour
15	99-	0.6	6/27/00	0801	plastic baggies	Soil	X		48 hour
16	99- 36 -	0.1	6/27/00	0804	plastic baggies	Soil	X		48 hour
17	99-	0.3	6/27/00	0805	plastic baggies	Soil	X		48 hour
18	99-	0.6	6/27/00	0809	plastic baggies	Soil	X		48 hour
19	99- 37 -	0.1	6/27/00	0812	plastic baggies	Soil	X		48 hour
20	99-	0.3	6/27/00	0814	plastic baggies	Soil	X		48 hour
21	99-	0.6	6/27/00	0815	plastic baggies	Soil	X		48 hour
22	99- 38 -	0.1	6/27/00	0821	plastic baggies	Soil	X		48 hour
23	99-	0.3	6/27/00	0824	plastic baggies	Soil	X		48 hour
24	99-	0.6	6/27/00	0826	plastic baggies	Soil	X		48 hour
25	99- 39 -	0.1	6/27/00	0832	plastic baggies	Soil	X		48 hour
26	99-	0.3	6/27/00	0834	plastic baggies	Soil	X		48 hour
27	99-	0.6	6/27/00	0836	plastic baggies	Soil	X		48 hour

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Date:
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Date: 6/28/00
Time: 8:40

INTERNATIONAL TECHNOLOGY CORPORATION

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CHAIN OF CUSTODY

Sparger Technology, Inc.
3050 Fite Circle, Suite 112, Sacramento, CA 95827
(916) 362-8947 Fax: (916) 362-0947

Project: State Route 99, Aerially Deposited Lead Investigation
Location: Kern County, near Bakersfield
Project # 808693
Task Order # 06-421801-TP EA No. 06-421801-TP
Contract #: 43A0012

No.	Sample ID: boring # depth (m)	Date	Time	Container	Matrix	EPA 7420: Lead Only	9450: Soil pH	Turn-around time
1	99- 40 - 0.1	6/27/00	0830	plastic baggies	Soil	X		48 hour
2	99- 0.3	6/27/00	0832	plastic baggies	Soil	X		48 hour
3	99- 0.6	6/27/00	0835	plastic baggies	Soil	X		48 hour
4	99- 41 - 0.1	6/27/00	0837	plastic baggies	Soil	X		48 hour
5	99- 0.3	6/27/00	0839	plastic baggies	Soil	X		48 hour
6	99- 0.6	6/27/00	0840	plastic baggies	Soil	X		48 hour
7	99- 42 - 0.1	6/27/00	0841	plastic baggies	Soil	X		48 hour
8	99- 0.3	6/27/00	0845	plastic baggies	Soil	X		48 hour
9	99- 0.6	6/27/00	0847	plastic baggies	Soil	X		48 hour
10	99- 81 - 0.1	6/27/00	0850	plastic baggies	Soil	X		48 hour
11	99- 0.3	6/27/00	0853	plastic baggies	Soil	X		48 hour
~~12~~	~~99-~~	~~6/27/00~~	~~0855~~	~~plastic baggies~~	~~Soil~~	~~X~~		~~48 hour~~
13	99- 80 - 0.1	6/27/00	0900	plastic baggies	Soil	X		48 hour
14	99- 0.3	6/27/00	0905	plastic baggies	Soil	X		48 hour
15	99- 0.6	6/27/00	0910	plastic baggies	Soil	X		48 hour
16	99- 79 - 0.1	6/27/00	0912	plastic baggies	Soil	X		48 hour
17	99- 0.3	6/27/00	0915	plastic baggies	Soil	X	X	48 hour
18	99- 0.6	6/27/00	0917	plastic baggies	Soil	X		48 hour
19	99- 78 - 0.1	6/27/00	0919	plastic baggies	Soil	X		48 hour
20	99- 0.3	6/27/00	0922	plastic baggies	Soil	X		48 hour
21	99- 0.6	6/27/00	0924	plastic baggies	Soil	X		48 hour
22	99- 77 - 0.1	6/27/00	0934	plastic baggies	Soil	X		48 hour
23	99- 0.3	6/27/00	0929	plastic baggies	Soil	X		48 hour
24	99- 0.6	6/27/00	0931	plastic baggies	Soil	X		48 hour
25	99- 76 - 0.1	6/27/00	0935	plastic baggies	Soil	X		48 hour
26	99- 0.3	6/27/00	0937	plastic baggies	Soil	X		48 hour
27	99- 0.6	6/27/00	0939	plastic baggies	Soil	X		48 hour

Relinquished by: _____ Received by: _____
Date: 6/27/00 Date: 6/28/00
Time: 8:40 Time: 8:40

INTERNATIONAL TECHNOLOGY CORPORATION

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Location: Kern County, near Bakersfield
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No.	Sample ID: boring # depth (m)	Date	Time	Container	Matrix	EPA 7420: Lead Only	9450: Soil pH	Turn-around time
1	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
2	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
3	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
4	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
5	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
6	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
7	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
8	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
9	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
10	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
11	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
12	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
13	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X	X	48 hour
14	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
15	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
16	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
17	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
18	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
19	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
20	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
21	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
22	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
23	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
24	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
25	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
26	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
27	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour

Relinquished by: [signature]
Date: [illegible]
Time: 6:40

Received by: [signature]
Date: 6/28/00
Time: 8:40

INTERNATIONAL TECHNOLOGY CORPORATION

12356

CHAIN OF CUSTODY

Sparger Technology, Inc.
3050 Fite Circle, Suite 112, Sacramento, CA 95827
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No.	Sample ID: boring # depth (m)	Date	Time	Container	Matrix	EPA 7420: Lead Only	9450: Soil pH	Turn-around time
1	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
2	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X	X	48 hour
3	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
4	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
5	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
6	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
7	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
8	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
9	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
10	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
11	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
~~12~~	~~99- [illegible]~~	~~6/27/00~~	[illegible]	plastic baggies	Soil	X		48 hour
13	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
14	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
15	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
16	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
17	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
18	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
19	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
20	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
21	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
22	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
23	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
24	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
25	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
26	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour
27	99- [illegible]	6/27/00	[illegible]	plastic baggies	Soil	X		48 hour

Relinquished by: [signature]
Date: 6-28-00
Time: 8:40

Received by: [signature]
Date: 6/28/00
Time: 8:40

INTERNATIONAL TECHNOLOGY CORPORATION

12356

CHAIN OF CUSTODY

Sparger Technology, Inc.
3050 Fite Circle. Suite 112. Sacramento, CA 95827
(916) 362-8947 Fax: (916) 362-0947

Project: State Route 99, Aerially Deposited Lead Investigation
Location: Kern County, near Bakersfield
Project # 806692
Task Order # 06-421801-TP EA No. 06-421801-TP
Contract #: 43A0012

No.	Sample ID: boring # depth (m)	Date	Time	Container	Matrix	EPA 7420: Lead Only	9450: Soil pH	Turnaround Time
1	99-	6/27/00		plastic baggies	Soil	X		48 hour
2	99-	6/27/00		plastic baggies	Soil	X		48 hour
3	99-	6/27/00		plastic baggies	Soil	X		48 hour
4	99-	6/27/00		plastic baggies	Soil	X		48 hour
5	99-	6/27/00		plastic baggies	Soil	X		48 hour
6	99-	6/27/00		plastic baggies	Soil	X		48 hour
7	99-	6/27/00		plastic baggies	Soil	X		48 hour
8	99-	6/27/00		plastic baggies	Soil	X		48 hour
9	99-	6/27/00		plastic baggies	Soil	X		48 hour
10	99-	6/27/00		plastic baggies	Soil	X		48 hour
11	99-	6/27/00		plastic baggies	Soil	X		48 hour
12	99-	6/27/00		plastic baggies	Soil	X		48 hour
13	99-	6/27/00		plastic baggies	Soil	X		48 hour
14	99-	6/27/00		plastic baggies	Soil	X		48 hour
15	99-	6/27/00		plastic baggies	Soil	X		48 hour
16	99-	6/27/00		plastic baggies	Soil	X		48 hour
17	99-	6/27/00		plastic baggies	Soil	X		48 hour
18	99-	6/27/00		plastic baggies	Soil	X		48 hour
19	99-	6/27/00		plastic baggies	Soil	X		48 hour
20	99-	6/27/00		plastic baggies	Soil	X		48 hour
21	99-	6/27/00		plastic baggies	Soil	X		48 hour
22	99-	6/27/00		plastic baggies	Soil	X		48 hour
23	99-	6/27/00		plastic baggies	Soil	X		48 hour
24	99-	6/27/00		plastic baggies	Soil	X		48 hour
25	99-	6/27/00		plastic baggies	Soil	X	X	48 hour
26	99-	6/27/00		plastic baggies	Soil	X		48 hour
27	99-	6/27/00		plastic baggies	Soil	X		48 hour

Relinquished by:
Date: 6-27-00
Time: 8:40

Received by:
Date: 6/28/00
Time: 8:41

Page 2 of 2

INTERNATIONAL TECHNOLOGY CORPORATION

CHAIN OF CUSTODY

Sparger Technology, Inc.
3050 Fite Circle, Suite 112, Sacramento, CA 95827
(916) 362-8947 Fax: (916) 362-0947

Project: State Route 99, Aerially Deposited Lead Investigation
Location: Kern County, near Bakersfield
Project # 808693
Task Order # 06-421801-TP EA No. 06-421801-TP
Contract #: 43A0012

No.	Sample ID: boring # depth (m)	Date	Time	Container	Matrix	EPA 7420: Lead Only	9450: Soil pH	Turn-around time
1	99-	6/27/00		plastic baggies	Soil	X		48 hour
2	99-	6/27/00		plastic baggies	Soil	X		48 hour
3	99-	6/27/00		plastic baggies	Soil	X		48 hour
4	99-	6/27/00		plastic baggies	Soil	X		48 hour
5	99-	6/27/00		plastic baggies	Soil	X		48 hour
6	99-	6/27/00		plastic baggies	Soil	X		48 hour
7	99-	6/27/00		plastic baggies	Soil	X		48 hour
8	99-	6/27/00		plastic baggies	Soil	X		48 hour
9	99-	6/27/00		plastic baggies	Soil	X		48 hour
10	99-	6/27/00		plastic baggies	Soil	X	X	48 hour
11	99-	6/27/00		plastic baggies	Soil	X		48 hour
12	99-	6/27/00		plastic baggies	Soil	X		48 hour
13	99-	6/27/00		plastic baggies	Soil	X		48 hour
14	99-	6/27/00		plastic baggies	Soil	X		48 hour
15	99-	6/27/00		plastic baggies	Soil	X		48 hour
16	99-	6/27/00		plastic baggies	Soil	X		48 hour
17	99-	6/27/00		plastic baggies	Soil	X		48 hour
18	99-	6/27/00		plastic baggies	Soil	X		48 hour
19	99-	6/27/00		plastic baggies	Soil	X		48 hour
20	99-	6/27/00		plastic baggies	Soil	X		48 hour
21	99-	6/27/00		plastic baggies	Soil	X		48 hour
22	99-	6/27/00		plastic baggies	Soil	X		48 hour
23	99-	6/27/00		plastic baggies	Soil	X		48 hour
24	99-	6/27/00		plastic baggies	Soil	X		48 hour
25	99-	6/27/00		plastic baggies	Soil	X		48 hour
26	99-	6/27/00		plastic baggies	Soil	X		48 hour
27	99-	6/27/00		plastic baggies	Soil	X		48 hour

Relinquished by:
Date: 6-28-00
Time: 8:40

Received by:
Date: 6/28/00
Time: 8:40

Mr. Dave Foley
IT Corporation
1433 N. Market Boulevard
Sacramento, CA 95834

Client	IT Corporation
Workorder	12398 State Route 99 - 808693
Received	07/11/00

The samples were received in EPA specified containers. The samples were transported and received under documented chain of custody and stored at four (4) degrees C until analysis was performed.

Sparger Technology, Inc. ID Suffix Keys - These descriptors will follow the Sparger Technology, Inc. ID numbers and help identify the specific sample and clarify the report.

DUP - Matrix Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
RPD - Relative Percent Difference
QC - Additional Quality Control
DIL - Results from a diluted sample

Ray James
Laboratory Director

Test Certificate of Analysis

Client ID IT Corporation
Workorder # 12398 **Workorder ID** State Route 99 - 808693

Laboratory ID 12398001
Sample ID 99-01-0.3
Matrix STLC Leachate

Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	6.54	0.050	mg/L

Laboratory ID 12398002
Sample ID 99-02-0.1
Matrix STLC Leachate

Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	8.43	0.050	mg/L

Laboratory ID 12398003
Sample ID 99-03-0.1
Matrix STLC Leachate

Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	15.0	0.050	mg/L

Laboratory ID 12398004
Sample ID 99-05-0.1
Matrix STLC Leachate

Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	9.41	0.050	mg/L

Test Certificate of Analysis

Client ID IT Corporation
Workorder # 12398 **Workorder ID** State Route 99 - 808693

Laboratory ID 12398005 **Sampled** 06/26/00
Sample ID 99-06-0.1 **Received** 07/10/00
Matrix STLC Leachate **Reported** 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	illegible	illegible	mg/L

Laboratory ID 12398006 **Sampled** 06/26/00
Sample ID 99-07-0.1 **Received** 07/10/00
Matrix STLC Leachate **Reported** 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	1.90	illegible	mg/L

Laboratory ID 12398007 **Sampled** 06/26/00
Sample ID 99-09-0.1 **Received** 07/10/00
Matrix STLC Leachate **Reported** 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	3.40	0.050	mg/L

Laboratory ID 12398008 **Sampled** 06/26/00
Sample ID 99-10-0.1 **Received** 07/10/00
Matrix STLC Leachate **Reported** 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	1.47	0.050	mg/L

Test Certificate of Analysis

Client ID IT Corporation
Workorder # 12398 **Workorder ID** State Route 99 - 808693

Laboratory ID 12398009
Sample ID 99-14-0.1
Matrix STLC Leachate

Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	4.18	0.050	mg/L

Laboratory ID 12398010
Sample ID 99-25-0.1
Matrix STLC Leachate

Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	7.47	0.050	mg/L

Laboratory ID 12398011
Sample ID 99-26-0.1
Matrix STLC Leachate

Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	4.33	0.050	mg/L

Laboratory ID 12398012
Sample ID 99-30-0.1
Matrix STLC Leachate

Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	0.933	0.050	mg/L

Test Certificate of Analysis

Client ID IT Corporation
Workorder # 12398 **Workorder ID** State Route 99 - 808693

Laboratory ID 12398013 **Sampled** 06/26/00
Sample ID 99-31-0.1 **Received** 07/10/00
Matrix STLC Leachate **Reported** 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	11.9	0.050	mg/L

Laboratory ID 12398014 **Sampled** 06/26/00
Sample ID 99-32-0.1 **Received** 07/10/00
Matrix STLC Leachate **Reported** 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	1.64	0.050	mg/L

Laboratory ID 12398015 **Sampled** 06/26/00
Sample ID 99-33-0.1 **Received** 07/10/00
Matrix STLC Leachate **Reported** 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	17.0	0.050	mg/L

Laboratory ID 12398016 **Sampled** 06/26/00
Sample ID 99-34-0.1 **Received** 07/10/00
Matrix STLC Leachate **Reported** 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	19.1	0.050	mg/L

Test Certificate of Analysis

Client ID IT Corporation
Workorder # 12398 **Workorder ID** State Route 99 - 808693

Laboratory ID 12398017 **Sampled** 06/26/00
Sample ID 99-35-0.1 **Received** 07/10/00
Matrix STLC Leachate **Reported** 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	3.41	0.050	mg/L

Laboratory ID 12398018 **Sampled** 06/26/00
Sample ID 99-36-0.1 **Received** 07/10/00
Matrix STLC Leachate **Reported** 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	10.8	0.050	mg/L

Laboratory ID 12398019 **Sampled** 06/26/00
Sample ID 99-37-0.1 **Received** 07/10/00
Matrix STLC Leachate **Reported** 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	2.79	0.050	mg/L

Laboratory ID 12398020 **Sampled** 06/26/00
Sample ID 99-39-0.1 **Received** 07/10/00
Matrix STLC Leachate **Reported** 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	5.59	0.050	mg/L

Test Certificate of Analysis

Client ID IT Corporation
Workorder # 12398 **Workorder ID** State Route 99 - 808693

Laboratory ID 12398021 **Sampled** 06/26/00
Sample ID 99-41-0.1 **Received** 07/10/00
Matrix STLC Leachate **Reported** 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	8.64	0.050	mg/L

Laboratory ID 12398022 **Sampled** 06/26/00
Sample ID 99-45-0.1 **Received** 07/10/00
Matrix STLC Leachate **Reported** 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	6.88	0.050	mg/L

Laboratory ID 12398023 **Sampled** 06/26/00
Sample ID 99-45-0.3 **Received** 07/10/00
Matrix STLC Leachate **Reported** 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	3.88	0.050	mg/L

Laboratory ID 12398024 **Sampled** 06/26/00
Sample ID 99-45-0.6 **Received** 07/10/00
Matrix STLC Leachate **Reported** 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	5.49	0.050	mg/L

Test Certificate of Analysis

Client ID IT Corporation
Workorder # 12398 **Workorder ID** State Route 99 - 808693

Laboratory ID 12398025
Sample ID 99-46-0.1
Matrix STLC Leachate

Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	7.26	0.050	mg/L

Laboratory ID 12398026
Sample ID 99-46-0.3
Matrix STLC Leachate

Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	4.34	0.050	mg/L

Laboratory ID 12398027
Sample ID 99-46-0.6
Matrix STLC Leachate

Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	4.76	0.050	mg/L

Laboratory ID 12398028
Sample ID 99-47-0.1
Matrix STLC Leachate

Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	11.1	0.050	mg/L

Test Certificate of Analysis

Client ID IT Corporation
Workorder # 12398 **Workorder ID** State Route 99 - 808693

Laboratory ID 12398029 **Sampled** 06/26/00
Sample ID 99-47-0.3 **Received** 07/10/00
Matrix STLC Leachate **Reported** 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	9.06	0.050	mg/L

Laboratory ID 12398030 **Sampled** 06/26/00
Sample ID 99-47-0.6 **Received** 07/10/00
Matrix STLC Leachate **Reported** 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	5.09	0.050	mg/L

Laboratory ID 12398031 **Sampled** 06/26/00
Sample ID 99-48-0.1 **Received** 07/10/00
Matrix STLC Leachate **Reported** 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	8.66	0.050	mg/L

Laboratory ID 12398032 **Sampled** 06/26/00
Sample ID 99-49-0.1 **Received** 07/10/00
Matrix STLC Leachate **Reported** 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	3.92	0.050	mg/L

Test Certificate of Analysis

Client ID IT Corporation
Workorder # 12398 **Workorder ID** State Route 99 - 808693

Laboratory ID 12398033 **Sampled** 06/26/00
Sample ID 99-49-0.3 **Received** 07/10/00
Matrix STLC Leachate **Reported** 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	3.92	0.050	mg/L

Laboratory ID 12398034 **Sampled** 06/26/00
Sample ID 99-49-0.6 **Received** 07/10/00
Matrix STLC Leachate **Reported** 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	2.06	0.050	mg/L

Laboratory ID 12398035 **Sampled** 06/26/00
Sample ID 99-50-0.1 **Received** 07/10/00
Matrix STLC Leachate **Reported** 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	4.40	0.050	mg/L

Laboratory ID 12398036 **Sampled** 06/26/00
Sample ID 99-50-0.3 **Received** 07/10/00
Matrix STLC Leachate **Reported** 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	6.18	0.050	mg/L

Test Certificate of Analysis

Client ID IT Corporation
Workorder # 12398 **Workorder ID** State Route 99 - 808693

Laboratory ID 12398037
Sample ID 99-50-0.6
Matrix STLC Leachate

Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	3.98	0.050	mg/L

Laboratory ID 12398038
Sample ID 99-51-0.
Matrix STLC Leachate

Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	0.050	0.050	mg/L

Laboratory ID 12398039
Sample ID 99-51-0.3
Matrix STLC Leachate

Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	5.76	0.050	mg/L

Laboratory ID 12398040
Sample ID 99-51-0.6
Matrix STLC Leachate

Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	4.12	0.050	mg/L

Test Certificate of Analysis

Client ID IT Corporation
Workorder # 12398

Workorder ID State Route 99 - 808693

Laboratory ID 12398041
Sample ID 99-52-0.1
Matrix STLC Leachate

Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	11.3	0.050	mg/L

Laboratory ID 12398042
Sample ID 99-52-0.3
Matrix STLC Leachate

Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	11.3	0.050	mg/L

Laboratory ID 12398043
Sample ID 99-53-0.1
Matrix STLC Leachate

Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	29.8	0.050	mg/L

Laboratory ID 12398044
Sample ID 99-53-0.3
Matrix STLC Leachate

Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	7.98	0.050	mg/L

Test Certificate of Analysis

Client ID IT Corporation
Workorder # 12398 **Workorder ID** State Route 99 - 808693

Laboratory ID 12398045
Sample ID 99-54-0.1
Matrix STLC Leachate

Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	39.4	0.050	mg/L

Laboratory ID 12398046
Sample ID 99-54-0.3
Matrix STLC Leachate

Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	18.8	0.050	mg/L

Laboratory ID 12398047
Sample ID 99-54-0.6
Matrix STLC Leachate

Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	5.85	0.050	mg/L

Laboratory ID 12398048
Sample ID 99-55-0.1
Matrix STLC Leachate

Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	2.58	0.050	mg/L

Test Certificate of Analysis

Client ID IT Corporation
Workorder # 12398 **Workorder ID** State Route 99 - 808693

Laboratory ID 12398049 **Sampled** 06/26/00
Sample ID 99-58-0.1 **Received** 07/10/00
Matrix STLC Leachate **Reported** 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	23.9	0.050	mg/L

Laboratory ID 12398050 **Sampled** 06/26/00
Sample ID 99-58-0.3 **Received** 07/10/00
Matrix STLC Leachate **Reported** 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	20.4	0.050	mg/L

Laboratory ID 12398051 **Sampled** 06/26/00
Sample ID 99-58-0.6 **Received** 07/10/00
Matrix STLC Leachate **Reported** 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	6.88	0.050	mg/L

Laboratory ID 12398052 **Sampled** 06/26/00
Sample ID 99-61-0.1 **Received** 07/10/00
Matrix STLC Leachate **Reported** 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	12.8	0.050	mg/L

Test Certificate of Analysis

Client ID IT Corporation
Workorder # 12398
Workorder ID State Route 99 - 808693

Laboratory ID 12398053
Sample ID 99-62-0.1
Matrix STLC Leachate
Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	17.5	0.050	mg/L

Laboratory ID 12398054
Sample ID 99-63-0.1
Matrix STLC Leachate
Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	38.6	0.050	mg/L

Laboratory ID 12398055
Sample ID 99-63-0.3
Matrix STLC Leachate
Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	5.84	0.050	mg/L

Laboratory ID 12398056
Sample ID 99-64-0.1
Matrix STLC Leachate
Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	6.92	0.050	mg/L

Test Certificate of Analysis

Client ID IT Corporation
Workorder # 12398
Workorder ID State Route 99 - 808693

Laboratory ID 12398057
Sample ID 99-65-0.1
Matrix STLC Leachate

Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	9.27	0.050	mg/L

Laboratory ID 12398058
Sample ID 99-66-0.1
Matrix STLC Leachate

Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	31.8	0.050	mg/L

Laboratory ID 12398059
Sample ID 99-66-0.3
Matrix STLC Leachate

Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	15.5	0.050	mg/L

Laboratory ID 12398060
Sample ID 99-66-0.6
Matrix STLC Leachate

Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	6.27	0.050	mg/L

Test Certificate of Analysis

Client ID IT Corporation
Workorder # 12398 **Workorder ID** State Route 99 - 808693

Laboratory ID 12398061 **Sampled** 06/26/00
Sample ID 99-67-0.1 **Received** 07/10/00
Matrix STLC Leachate **Reported** 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	11.2	0.050	mg/L

Laboratory ID 12398062 **Sampled** 06/26/00
Sample ID 99-68-0.1 **Received** 07/10/00
Matrix STLC Leachate **Reported** 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	0.07	0.050	mg/L

Laboratory ID 12398063 **Sampled** 06/26/00
Sample ID 99-68-0.3 **Received** 07/10/00
Matrix STLC Leachate **Reported** 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	4.57	0.050	mg/L

Laboratory ID 12398064 **Sampled** 06/26/00
Sample ID 99-69-0.1 **Received** 07/10/00
Matrix STLC Leachate **Reported** 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	11.8	0.050	mg/L

Test Certificate of Analysis

Client ID IT Corporation
Workorder # 12398 **Workorder ID** State Route 99 - 808693

Laboratory ID 12398065 **Sampled** 06/26/00
Sample ID 99-69-0.6 **Received** 07/10/00
Matrix STLC Leachate **Reported** 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	6.36	0.050	mg/L

Laboratory ID 12398066 **Sampled** 06/26/00
Sample ID 99-70-0.1 **Received** 07/10/00
Matrix STLC Leachate **Reported** 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	5.82	0.050	mg/L

Laboratory ID 12398067 **Sampled** 06/26/00
Sample ID 99-70-0.3 **Received** 07/10/00
Matrix STLC Leachate **Reported** 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	5.14	0.050	mg/L

Laboratory ID 12398068 **Sampled** 06/26/00
Sample ID 99-71-0.1 **Received** 07/10/00
Matrix STLC Leachate **Reported** 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	37.5	0.050	mg/L

Test Certificate of Analysis

Client ID IT Corporation
Workorder # 12398 **Workorder ID** State Route 99 - 808693

Laboratory ID 12398069
Sample ID 99-71-0.3
Matrix STLC Leachate
Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	19.5	0.050	mg/L

Laboratory ID 12398070
Sample ID 99-71-0.6
Matrix STLC Leachate
Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	18.4	0.050	mg/L

Laboratory ID 12398071
Sample ID 99-72-0.1
Matrix STLC Leachate
Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	26.2	0.050	mg/L

Laboratory ID 12398072
Sample ID 99-72-0.3
Matrix STLC Leachate
Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	2.19	0.050	mg/L

Test Certificate of Analysis

Client ID IT Corporation
Workorder # 12398
Workorder ID State Route 99 - 808693

Laboratory ID 12398073
Sample ID 99-74-0.1
Matrix STLC Leachate

Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	8.80	0.050	mg/L

Laboratory ID 12398074
Sample ID 99-75-0.1
Matrix STLC Leachate

Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	5.13	0.050	mg/L

Laboratory ID 12398075
Sample ID 99-76-0.6
Matrix STLC Leachate

Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	3.37	0.050	mg/L

Laboratory ID 12398076
Sample ID 99-77-0.1
Matrix STLC Leachate

Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	10.5	0.050	mg/L

Test Certificate of Analysis

Client ID IT Corporation
Workorder # 12398 **Workorder ID** State Route 99 - 808693

Laboratory ID 12398077
Sample ID 99-77-0.3
Matrix STLC Leachate
Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	4.57	0.050	mg/L

Laboratory ID 12398078
Sample ID 99-77-0.6
Matrix STLC Leachate
Sampled [illegible]
Received [illegible]
Reported [illegible]

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	4.14	0.050	mg/L

Laboratory ID 12398079
Sample ID 99-78-0.1
Matrix STLC Leachate
Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	3.02	0.050	mg/L

Laboratory ID 12398080
Sample ID 99-79-0.3
Matrix STLC Leachate
Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	36.1	0.050	mg/L

Test Certificate of Analysis

Client ID IT Corporation
Workorder # 12398
Workorder ID State Route 99 - 808693

Laboratory ID 12398081
Sample ID 99-80-0.1
Matrix STLC Leachate

Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	22.4	0.050	mg/L

Laboratory ID 12398082
Sample ID 99-80-0.3
Matrix STLC Leachate

Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	21.5	0.050	mg/L

Laboratory ID 12398083
Sample ID 99-80-0.6
Matrix STLC Leachate

Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	8.67	0.050	mg/L

Laboratory ID 12398084
Sample ID 99-81-0.1
Matrix STLC Leachate

Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	4.85	0.050	mg/L

Test Certificate of Analysis

Client ID IT Corporation
Workorder # 12398 **Workorder ID** State Route 99 - 808693

Laboratory ID 12398085
Sample ID 99-81-0.3
Matrix STLC Leachate

Sampled 06/26/00
Received 07/10/00
Reported 07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
ICP Metals						
Lead	6010B STLC	07/13/00	07/13/00	1.83	0.050	mg/L

Method Blank Report

Client ID	IT Corporation		
Workorder ID	State Route 99 - 808693		
Laboratory ID	9758	**Sampled**	
Sample ID	MB for HBN 9019 [ICPV/1151]	**Received**	07/14/00
Matrix	STLC Leachate		

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
Lead	6010B STLC	N/A	07/13/00	ND	0.050	mg/L

Lab Check Standard Report

Client ID	IT Corporation
Workorder ID	State Route 99 - 808693
Laboratory ID	9759
Sample ID	LCS for HBN 9019 [ICPV/1151]
Matrix	STLC Leachate
Sampled	
Received	07/14/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
Lead	6010B STLC	N/A	07/13/00	2.43	0.050	mg/L

Lab Check Standard Duplicate Report

Client ID	IT Corporation		
Workorder ID	State Route 99 - 808693		
Laboratory ID	9760	**Sampled**	
Sample ID	LCSD for HBN 9019 [ICPV/1151]	**Received**	07/14/00
Matrix	STLC Leachate		

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
Lead	6010B STLC	N/A	07/13/00	2.45	0.050	mg/L

Duplicate Report

Client ID	IT Corporation		
Workorder ID	State Route 99 - 808693		
Laboratory ID	9761	**Sampled**	06/26/00
Sample ID	DUP for HBN 9019 [ICPV/1151]	**Received**	07/10/00
Matrix	STLC Leachate		

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
Lead	6010B STLC	N/A	07/13/00	6.71	0.050	mg/L

Matrix Spike Report

Client ID	IT Corporation		
Workorder ID	State Route 99 - 808693		
Laboratory ID	9762	**Sampled**	06/26/00
Sample ID	MS for HBN 9019 [ICPV/1151]	**Received**	07/10/00
Matrix	STLC Leachate		

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
Lead	6010B STLC	N/A	07/13/00	9.92	0.050	mg/L

Matrix Spike Duplicate Report

Client ID	IT Corporation		
Workorder ID	State Route 99 - 808693		
Laboratory ID	9763	**Sampled**	06/26/00
Sample ID	MSD for HBN 9019 [ICPV/1151]	**Received**	07/10/00
Matrix	STLC Leachate		

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
Lead	6010B STLC	N/A	07/13/00	9.74	0.050	mg/L

Method Blank Report

Client ID	IT Corporation		
Workorder ID	State Route 99 - 808693		
Laboratory ID	9764		
Sample ID	MB for HBN 9021 [ICPV/1152]	**Sampled**	
Matrix	STLC Leachate	**Received**	07/14/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
Lead	6010B STLC	N/A	07/13/00	ND	0.050	mg/L

Lab Check Standard Report

Client ID	IT Corporation		
Workorder ID	State Route 99 - 808693		
Laboratory ID	9765	**Sampled**	
Sample ID	LCS for HBN 9021 [ICPV/1152]	**Received**	07/14/00
Matrix	STLC Leachate		

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
Lead	6010B STLC	N/A	07/13/00	2.44	0.050	mg/L

Lab Check Standard Duplicate Report

Client ID	IT Corporation		
Workorder ID	State Route 99 - 808693		
Laboratory ID	9766	**Sampled**	
Sample ID	LCSD for HBN 9021 [ICPV/1152]	**Received**	07/14/00
Matrix	STLC Leachate		

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
Lead	6010B STLC	N/A	07/13/00	2.39	0.050	mg/L

Duplicate Report

Client ID	IT Corporation		
Workorder ID	State Route 99 - 808693		
Laboratory ID	9767	**Sampled**	06/26/00
Sample ID	DUP for HBN 9021 [ICPV/1152]	**Received**	07/10/00
Matrix	STLC Leachate		

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
Lead	6010B STLC	N/A	07/13/00	8.72	0.050	mg/L

Matrix Spike Report

Client ID	IT Corporation		
Workorder ID	State Route 99 - 808693		
Laboratory ID	9768	**Sampled**	06/26/00
Sample ID	MS for HBN 9021 [ICPV/1152]	**Received**	07/10/00
Matrix	STLC Leachate		

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
Lead	6010B STLC	N/A	07/13/00	11.9	0.050	mg/L

Matrix Spike Duplicate Report

Client ID	IT Corporation		
Workorder ID	State Route 99 - 808693		
Laboratory ID	9769	**Sampled**	06/26/00
Sample ID	MSD for HBN 9021 [ICPV/1152]	**Received**	07/10/00
Matrix	STLC Leachate		

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
Lead	6010B STLC	N/A	07/13/00	11.8	0.050	mg/L

Method Blank Report

Client ID	IT Corporation		
Workorder ID	State Route 99 - 808693		
Laboratory ID	9770	**Sampled**	
Sample ID	MB for HBN 9023 [ICPV/1153]	**Received**	07/14/00
Matrix	STLC Leachate		

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
Lead	6010B STLC	N/A	07/13/00	ND	0.050	mg/L

Lab Check Standard Report

Client ID	IT Corporation		
Workorder ID	State Route 99 - 808693		
Laboratory ID	9771	**Sampled**	
Sample ID	LCS for HBN 9023 [ICPV/1153]	**Received**	07/14/00
Matrix	STLC Leachate		

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
Lead	6010B STLC	N/A	07/13/00	2.53	0.050	mg/L

Lab Check Standard Duplicate Report

Client ID	IT Corporation		
Workorder ID	State Route 99 - 808693		
Laboratory ID	9772	**Sampled**	
Sample ID	LCSD for HBN 9023 [ICPV/1153]	**Received**	07/14/00
Matrix	STLC Leachate		

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
Lead	6010B STLC	N/A	07/13/00	2.34	0.050	mg/L

Duplicate Report

Client ID	IT Corporation		
Workorder ID	State Route 99 - 808693		
Laboratory ID	9773	**Sampled**	06/26/00
Sample ID	DUP for HBN 9023 [ICPV/1153]	**Received**	07/10/00
Matrix	STLC Leachate		

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
Lead	6010B STLC	N/A	07/13/00	11.7	0.050	mg/L

Matrix Spike Report

Client ID	IT Corporation		
Workorder ID	State Route 99 - 808693		
Laboratory ID	9774	**Sampled**	06/26/00
Sample ID	MS for HBN 9023 [ICPV/1153]	**Received**	07/10/00
Matrix	STLC Leachate		

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
Lead	6010B STLC	N/A	07/13/00	15.8	0.050	mg/L

Matrix Spike Duplicate Report

Client ID	IT Corporation		
Workorder ID	State Route 99 - 808693		
Laboratory ID	9775	**Sampled**	06/26/00
Sample ID	MSD for HBN 9023 [ICPV/1153]	**Received**	07/10/00
Matrix	STLC Leachate		

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
Lead	6010B STLC	N/A	07/13/00	15.5	0.050	mg/L

Method Blank Report

Client ID	IT Corporation		
Workorder ID	State Route 99 - 808693		
Laboratory ID	9776	**Sampled**	
Sample ID	MB for HBN 9025 [ICPV/1154]	**Received**	07/14/00
Matrix	STLC Leachate		

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
Lead	6010B STLC	N/A	07/13/00	ND	0.050	mg/L

Lab Check Standard Report

Client ID	IT Corporation		
Workorder ID	State Route 99 - 808693		
Laboratory ID	9777	**Sampled**	
Sample ID	LCS for HBN 9025 [ICPV/1154]	**Received**	07/14/00
Matrix	STLC Leachate		

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
Lead	6010B STLC	N/A	07/13/00	2.42	0.050	mg/L

Lab Check Standard Duplicate Report

Client ID	IT Corporation		
Workorder ID	State Route 99 - 808693		
Laboratory ID	9778	**Sampled**	
Sample ID	LCSD for HBN 9025 [ICPV/1154]	**Received**	07/14/00
Matrix	STLC Leachate		

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
Lead	6010B STLC	N/A	07/13/00	2.38	0.050	mg/L

Duplicate Report

Client ID	IT Corporation		
Workorder ID	State Route 99 - 808693		
Laboratory ID	9779	**Sampled**	06/26/00
Sample ID	DUP for HBN 9025 [ICPV/1154]	**Received**	07/10/00
Matrix	STLC Leachate		

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
Lead	6010B STLC	N/A	07/13/00	11.2	0.050	mg/L

Matrix Spike Report

Client ID	IT Corporation		
Workorder ID	State Route 99 - 808693		
Laboratory ID	9780	**Sampled**	06/26/00
Sample ID	MS for HBN 9025 [ICPV/1154]	**Received**	07/10/00
Matrix	STLC Leachate		

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
Lead	6010B STLC	N/A	07/13/00	14.6	0.050	mg/L

Matrix Spike Duplicate Report

Client ID	IT Corporation		
Workorder ID	State Route 99 - 808693		
Laboratory ID	9781	**Sampled**	06/26/00
Sample ID	MSD for HBN 9025 [ICPV/1154]	**Received**	07/10/00
Matrix	STLC Leachate		

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
Lead	6010B STLC	N/A	07/13/00	14.7	0.050	mg/L

Method Blank Report

Client ID	IT Corporation
Workorder ID	State Route 99 - 808693
Laboratory ID	9782
Sample ID	MB for HBN 9027 [ICPV/1155]
Matrix	STLC Leachate
Sampled	
Received	07/14/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
Lead	6010B STLC	N/A	07/13/00	ND	0.050	mg/L

Lab Check Standard Report

Client ID	IT Corporation		
Workorder ID	State Route 99 - 808693		
Laboratory ID	9783	**Sampled**	
Sample ID	LCS for HBN 9027 [ICPV/1155]	**Received**	07/14/00
Matrix	STLC Leachate		

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
Lead	6010B STLC	N/A	07/13/00	2.41	0.050	mg/L

Lab Check Standard Duplicate Report

Client ID	IT Corporation		
Workorder ID	State Route 99 - 808693		
Laboratory ID	9784	**Sampled**	
Sample ID	LCSD for HBN 9027 [ICPV/1155]	**Received**	07/14/00
Matrix	STLC Leachate		

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
Lead	6010B STLC	N/A	07/13/00	2.43	0.050	mg/L

Duplicate Report

Client ID	IT Corporation		
Workorder ID	State Route 99 - 808693		
Laboratory ID	9785	**Sampled**	06/26/00
Sample ID	DUP for HBN 9027 [ICPV/1155]	**Received**	07/10/00
Matrix	STLC Leachate		

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
Lead	6010B STLC	N/A	07/13/00	22.6	0.050	mg/L

Matrix Spike Report

Client ID	IT Corporation		
Workorder ID	State Route 99 - 808693		
Laboratory ID	9786		
Sample ID	MS for HBN 9027 [ICPV/1155]	**Sampled**	06/26/00
Matrix	STLC Leachate	**Received**	07/10/00

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
Lead	6010B STLC	N/A	07/13/00	26.6	0.050	mg/L

Matrix Spike Duplicate Report

Client ID	IT Corporation		
Workorder ID	State Route 99 - 808693		
Laboratory ID	9787	**Sampled**	06/26/00
Sample ID	MSD for HBN 9027 [ICPV/1155]	**Received**	07/10/00
Matrix	STLC Leachate		

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
Lead	6010B STLC	N/A	07/13/00	27.1	0.050	mg/L

QC SUMMARY

Client ID	IT Corporation		
Workorder ID	State Route 99 - 808693		
QC Batch	ICPP 1142	**Original**	12398001
Matrix	STLC Leachate	**Sample**	Duplicate [9761]

Parameter	RPD	RPD Limits
Lead	2.6	(35)

QC SUMMARY

Client ID	IT Corporation		
Workorder ID	State Route 99 - 808693		
QC Batch	ICPP 1143	**Original**	12398021
Matrix	STLC Leachate	**Sample**	Duplicate [9767]

Parameter	RPD	RPD Limits
Lead	0.9	(35)

QC SUMMARY

Client ID	IT Corporation		
Workorder ID	State Route 99 - 808693		
QC Batch	ICPP 1144	**Original**	12398041
Matrix	STLC Leachate	**Sample**	Duplicate [9773]

Parameter	RPD	RPD Limits
Lead	3.5	(35)

QC SUMMARY

Client ID	IT Corporation		
Workorder ID	State Route 99 - 808693		
QC Batch	ICPP 1145	**Original**	12398061
Matrix	STLC Leachate	**Sample**	Duplicate [9779]

Parameter	RPD	RPD Limits
Lead	0	(35)

QC SUMMARY

Client ID	IT Corporation		
Workorder ID	State Route 99 - 808693		
QC Batch	ICPP 1146	**Original**	12398081
Matrix	STLC Leachate	**Sample**	Duplicate [9785]

Parameter	**RPD**	**RPD Limits**
Lead	5	(35)

QC SUMMARY

Client ID	IT Corporation		
Workorder ID	State Route 99 - 808693		
QC Batch	ICPP 1142	**Original Samples**	12398001 Matrix Spike [9762] Matrix Spike Duplicate [9763]
Matrix	STLC Leachate		

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Lead	135	128	(75-125)	5.3	(35 MAX)

QC SUMMARY

Client ID	IT Corporation		
Workorder ID	State Route 99 - 808693		
QC Batch	ICPP 1143	**Original**	12398021
Matrix	STLC Leachate	**Samples**	Matrix Spike [9768]
			Matrix Spike Duplicate [9769]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Lead	130	126	(75-125)	3.1	(35 MAX)

QC SUMMARY

Client ID	IT Corporation		
Workorder ID	State Route 99 - 808693		
QC Batch	ICPP 1144	**Original**	12398041
Matrix	STLC Leachate	**Samples**	Matrix Spike [9774]
			Matrix Spike Duplicate [9775]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Lead	180	168	(75-125)	6.9	(35 MAX)

QC SUMMARY

Client ID	IT Corporation		
Workorder ID	State Route 99 - 808693		
QC Batch	ICPP 1145	**Original**	12398061
Matrix	STLC Leachate	**Samples**	Matrix Spike [9780]
			Matrix Spike Duplicate [9781]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Lead	136	140	(75-125)	2.9	(35 MAX)

QC SUMMARY

Client ID	IT Corporation		
Workorder ID	State Route 99 - 808693		
QC Batch	ICPP 1146	**Original Samples**	12398081
Matrix	STLC Leachate		Matrix Spike [9786]
			Matrix Spike Duplicate [9787]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Lead	204	224	(75-125)	9.3	(35 Max)

QC SUMMARY

Client ID	IT Corporation
Workorder ID	State Route 99 - 808693
QC Batch	ICPP 1142
Matrix	STLC Leachate
Samples	Lab Check Standard [9759] Lab Check Standard Duplicate [9760]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Lead	97	98	(80-120)	1	(20 MAX)

QC SUMMARY

Client ID	IT Corporation
Workorder ID	State Route 99 - 808693
QC Batch	ICPP 1143
Matrix	STLC Leachate
Samples	Lab Check Standard [9765] Lab Check Standard Duplicate [9766]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Lead	98	96	(80-120)	2.1	(20 MAX)

QC SUMMARY

Client ID	IT Corporation
Workorder ID	State Route 99 - 808693
QC Batch	ICPP 1144
Matrix	STLC Leachate
Samples	Lab Check Standard [9771] Lab Check Standard Duplicate [9772]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Lead	101	94	(80-120)	7.2	(20 MAX)

QC SUMMARY

Client ID	IT Corporation
Workorder ID	State Route 99 - 808693
QC Batch	ICPP 1145
Matrix	STLC Leachate
Samples	Lab Check Standard [9777] Lab Check Standard Duplicate [9778]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Lead	97	95	(80-120)	2.1	(20 MAX)

QC SUMMARY

Client ID	IT Corporation
Workorder ID	State Route 99 - 808693
QC Batch	ICPP 1146
Matrix	STLC Leachate
Samples	Lab Check Standard [9783] Lab Check Standard Duplicate [9784]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Lead	96	97	(80-120)	1	(20 MAX)

Sparger Technology, Inc.
With Automation in Mind

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

July 26, 2000

Invoice #: 12398
Project Name: State Route 99
Project #: 808693

Mr. Dave Foley
IT Corporation
1433 N. Market Blvd., Ste. 1
Sacramento, CA 95834

Mr. Dave Foley,

Enclosed are the analytical results for our invoice #12398. The samples were received at Sparger Technology Analytical Lab on June 10, 2000.

The samples were received in EPA specified containers. The samples were transported and received under documented chain of custody and stored at four (4) degrees C until analysis was performed.

The report consists of the following sections:

I. Sample Description & Analysis Request
II. Quality Control Report
III. Analysis Results

No problems were encountered with the analysis of your samples.

If you require additional information please give us a call at (916) 362-8947.

Sincerely,

R. L. James
Laboratory Director

3050 Fite Circle, Suite 112 • Sacramento, California 95827 • (916) 362-8947 • FAX (916) 362-0947

II Quality Control

A. **Project Specific QC.** No project specific QC (i.e., spikes and/or duplicates) was requested.

B. **Method Blank Results.** A method blank is a laboratory-generated sample which assesses the degree to which laboratory operations and procedures cause false-positive analytical results for your sample.

No target parameters were detected in the method blank associated with your sample at the reporting limit levels noted on the data sheets in the Analytical Results section.

C. **Laboratory Control Spike.** A Laboratory Control Spike (LCS) is a sample which is spiked with known analyte concentrations, and analyzed at approximately 10% of the sample load in order to establish method-specific control limits. The LCS results associated with your samples are on the attached Laboratory Control Spike and Laboratory Control Spike Duplicate Analysis Report.

D. **Matrix Spike Results.** A Matrix Spike is a sample which is spiked with known analyte concentrations, and analyzed at approximately 10% of the sample load in order to establish method-specific control limits. The Matrix Spike results associated with the other analyses for your samples are on the attached Matrix Spike and Matrix Spike Duplicate Analysis Report.

Accuracy is measured by Percent Recovery as in:

$$\% \text{ recovery} = \frac{(\text{measured concentration}) \times 100}{(\text{actual concentration})}$$

III Analysis Results

Results are on the attached data sheets.

Sparger Technology, Inc.
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Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

EPA Method 6010B
STLC Lead
Method Blank

Attention: Mr. Dave Foley
IT Corporation
1433 N. Market Blvd. Ste. 1
Sacramento, CA 95834

Project #: 902553

Client ID: Method Blank

Matrix: Leachate

Date Sampled: Jun 26, 2000
Date Received: Jul 10, 2000
Date Analyzed: Jul 14, 2000
Invoice#: 12398JUL00

Project Name: State Route 99

LAB ID: 902553A

Dilution: 1: 1

Analyte	Concentration	Reporting Limit	Unit
Lead (Pb)	ND	0.050	mg/L

ppm= parts per million = mg/l = milligram per liter

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

E. McKinney, Inorganics Manager

Jul 14, 2000
Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1614)

STLCPb(L)

3050 Fite Circle, Suite 112 • Sacramento, California 95827 • (916) 362-8947 • FAX (916) 362-0947

Sparger Technology, Inc.
With Automation in Mind

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

EPA Method 6010B
STLC Lead
LCS / LCSD Recoveries

Attention:	Mr. Dave Foley IT Corporation 1433 N. Market Blvd. Ste. 1 Sacramento, CA 95834	Date Sampled: Date Received: Date Analyzed: Invoice#:	Jun 26, 2000 Jul 10, 2000 Jul 14, 2000 12398JUL00
Project #:	808693	Project Name:	State Route 99
Client ID:	LCS/LCSD	LAB ID:	000713A
Matrix:	Leachate	Dilution: 1:	1

Unit = (mg/L)

Element	Spike Conc.	LCS	% Recovery	Duplicate LCS	Duplicate % Recovery	% RPD
Lead (Pb)	2.50	2.43	97.2%	2.45	98.0%	0.8%

ppm= parts per million = mg/l = milligram per liter

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

E. McKinney, Inorganics Manager

Jul 14, 2000
Date Reported

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(Certification No. 1614)

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Sparger Technology, Inc.
With Automation in Mind

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

EPA Method 6010B
STLC Lead
MS/MSD Recoveries

Attention:	Mr. Dave Foley IT Corporation 1433 N. Market Blvd. Ste. 1 Sacramento, CA 95834	Date Sampled: Date Received: Date Analyzed: Invoice#:	Jun 26, 2000 Jul 10, 2000 Jul 14, 2000 12398JUL00
Project #:	808693	Project Name:	State Route 99
Client ID:	MS/MSD	LAB ID:	12398-001
Matrix:	Leachate	Dilution: 1:	1

Unit = (mg/L)

Element	Sample Conc.	Spike Conc.	MS	% Recovery	Duplicate MSD	Duplicate % Recovery	% RPD
Lead (Pb)	6.54	2.50	9.92	135%	9.74	128%	5.5%

ppm= parts per million = mg/l = milligram per liter

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

Note: If sample concentration is higher than spike concentration, recoveries may be either high or low.

Note: If sample concentration is lower than spike concentration, recoveries may be either high or low due to matrix interference.

E. McKinney, Inorganics Manager

Jul 14, 2000
Date Reported

Sparger Technology, Inc.
With Automation in Mind

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

EPA Method 6010B
STLC Lead

Attention:	Mr. Dave Foley	Date Sampled:	Jun 26, 2000
	IT Corporation	Date Received:	Jul 10, 2000
	1433 N. Market Blvd. Ste. 1	Date Analyzed:	Jul 14, 2000
	Sacramento, CA 95834	Invoice#:	12398JUL00
Project #:	808693	Project Name:	State Route 99
Matrix:	Leachate	Dilution: 1:	1

Analyte	LAB ID	Client ID	Concentration	Reporting Limits	Units
Lead (Pb)	12398-001	99-01-0.3	6.5	0.050	mg/L
Lead (Pb)	12398-002	99-02-0.1	8.4	0.050	mg/L
Lead (Pb)	12398-003	99-03-0.1	15	0.050	mg/L
Lead (Pb)	12398-004	99-05-0.1	9.4	0.050	mg/L
Lead (Pb)	12398-005	99-06-0.1	6.8	0.050	mg/L
Lead (Pb)	12398-006	99-07-0.1	1.9	0.050	mg/L
Lead (Pb)	12398-007	99-09-0.1	3.4	0.050	mg/L
Lead (Pb)	12398-008	99-10-0.1	1.5	0.050	mg/L
Lead (Pb)	12398-009	99-14-0.1	4.2	0.050	mg/L
Lead (Pb)	12398-010	99-25-0.1	7.5	0.050	mg/L
Lead (Pb)	12398-011	99-26-0.1	4.3	0.050	mg/L
Lead (Pb)	12398-012	99-30-0.1	0.93	0.050	mg/L
Lead (Pb)	12398-013	99-31-0.1	12	0.050	mg/L
Lead (Pb)	12398-014	99-32-0.1	1.6	0.050	mg/L
Lead (Pb)	12398-015	99-33-0.1	17	0.050	mg/L
Lead (Pb)	12398-016	99-34-0.1	19	0.050	mg/L
Lead (Pb)	12398-017	99-35-0.1	3.4	0.050	mg/L
Lead (Pb)	12398-018	99-36-0.1	11	0.050	mg/L
Lead (Pb)	12398-019	99-37-0.1	2.8	0.050	mg/L
Lead (Pb)	12398-020	99-39-0.1	5.6	0.050	mg/L

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E. McKinney, Inorganics Manager

Jul 14, 2000
Date Reported

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(Certification No. 1614)

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Sparger Technology, Inc.
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Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

EPA Method 6010B
STLC Lead

Attention:	Mr. Dave Foley	Date Sampled:	Jun 26, 2000
	IT Corporation	Date Received:	Jul 10, 2000
	1433 N. Market Blvd. Ste. 1	Date Analyzed:	Jul 14, 2000
	Sacramento, CA 95834	Invoice#:	12398JUL00
Project #:	808693	Project Name:	State Route 99
Matrix:	Leachate	Dilution: 1:	1

Analyte	LAB ID	Client ID	Concentration	Reporting Limits	Units
Lead (Pb)	12398-021	99-41-0.1	8.6	0.050	mg/L
Lead (Pb)	12398-022	99-45-0.3	8.9	0.050	mg/L
Lead (Pb)	12398-023	99-45-0.3	3.9	0.050	mg/L
Lead (Pb)	12398-024	99-45-0.6	5.5	0.050	mg/L
Lead (Pb)	12398-025	99-46-0.1	7.3	0.050	mg/L
Lead (Pb)	12398-026	99-46-0.3	4.3	0.050	mg/L
Lead (Pb)	12398-027	99-46-0.6	4.8	0.050	mg/L
Lead (Pb)	12398-028	99-47-0.1	11	0.050	mg/L
Lead (Pb)	12398-029	99-47-0.3	9.1	0.050	mg/L
Lead (Pb)	12398-030	99-47-0.6	5.1	0.050	mg/L
Lead (Pb)	12398-031	99-48-0.1	8.7	0.050	mg/L
Lead (Pb)	12398-032	99-49-0.1	3.9	0.050	mg/L
Lead (Pb)	12398-033	99-49-0.3	3.9	0.050	mg/L
Lead (Pb)	12398-034	99-49-0.6	2.1	0.050	mg/L
Lead (Pb)	12398-035	99-50-0.1	4.4	0.050	mg/L
Lead (Pb)	12398-036	99-50-0.3	6.2	0.050	mg/L
Lead (Pb)	12398-037	99-50-0.6	4.0	0.050	mg/L
Lead (Pb)	12398-038	99-51-0.1	12	0.050	mg/L
Lead (Pb)	12398-039	99-51-0.3	5.8	0.050	mg/L
Lead (Pb)	12398-040	99-51-0.6	4.1	0.050	mg/L

ppm= parts per million = mg/l = milligram per liter

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

E. McKinney, Inorganics Manager

Jul 14, 2000
Date Reported

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Sparger Technology, Inc.
With Automation in Mind

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

EPA Method 6010B
STLC Lead

Attention:	Mr. Dave Foley	Date Sampled:	Jun 26, 2000
	IT Corporation	Date Received:	Jul 10, 2000
	1433 N. Market Blvd. Ste. 1	Date Analyzed:	Jul 14, 2000
	Sacramento, CA 95834	Invoice#:	12398JUL00
Project #:	808693	Project Name:	State Route 99
Matrix:	Leachate	Dilution: 1:	1

Analyte	LAB ID	Client ID	Concentration	Reporting Limits	Units
Lead (Pb)	12398-041	99-52-0.1	11	0.050	mg/L
Lead (Pb)	12398-042	99-52-0.3	11	0.050	mg/L
Lead (Pb)	12398-043	99-53-0.1	30	0.050	mg/L
Lead (Pb)	12398-044	99-53-0.3	8.0	0.050	mg/L
Lead (Pb)	12398-045	99-54-0.1	39	0.050	mg/L
Lead (Pb)	12398-046	99-54-0.3	19	0.050	mg/L
Lead (Pb)	12398-047	99-54-0.6	5.9	0.050	mg/L
Lead (Pb)	12398-048	99-55-0.1	5.8	0.050	mg/L
Lead (Pb)	12398-049	99-58-0.1	24	0.050	mg/L
Lead (Pb)	12398-050	99-58-0.3	20	0.050	mg/L
Lead (Pb)	12398-051	99-58-0.6	6.9	0.050	mg/L
Lead (Pb)	12398-052	99-61-0.1	13	0.050	mg/L
Lead (Pb)	12398-053	99-62-0.1	18	0.050	mg/L
Lead (Pb)	12398-054	99-63-0.1	14	0.050	mg/L
Lead (Pb)	12398-055	99-63-0.3	5.8	0.050	mg/L
Lead (Pb)	12398-056	99-64-0.1	6.9	0.050	mg/L
Lead (Pb)	12398-057	99-65-0.1	9.3	0.050	mg/L
Lead (Pb)	12398-058	99-66-0.1	32	0.050	mg/L
Lead (Pb)	12398-059	99-66-0.3	16	0.050	mg/L
Lead (Pb)	12398-060	99-66-0.6	6.3	0.050	mg/L

ppm= parts per million = mg/l = milligram per liter

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

E. McKinney, Inorganics Manager

Jul 14, 2000
Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY

(Certification No. 1614)

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Sparger Technology, Inc.
With Automation in Mind

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

EPA Method 6010B
STLC Lead

Attention:	Mr. Dave Foley	Date Sampled:	Jun 26, 2000
	IT Corporation	Date Received:	Jul 10, 2000
	1433 N. Market Blvd. Ste. 1	Date Analyzed:	Jul 14, 2000
	Sacramento, CA 95834	Invoice#:	12398JUL00
Project #:	808693	Project Name:	State Route 99
Matrix:	Leachate	Dilution: 1:	1

Analyte	LAB ID	Client ID	Concentration	Reporting Limits	Units
Lead (Pb)	12398-061	99-67-0.1	11	0.050	mg/L
Lead (Pb)	12398-062	99-68-0.1	6.0	0.050	mg/L
Lead (Pb)	12398-063	99-68-0.3	4.6	0.050	mg/L
Lead (Pb)	12398-064	99-69-0.1	12	0.050	mg/L
Lead (Pb)	12398-065	99-69-0.6	6.4	0.050	mg/L
Lead (Pb)	12398-066	99-70-0.1	5.8	0.050	mg/L
Lead (Pb)	12398-067	99-70-0.3	5.1	0.050	mg/L
Lead (Pb)	12398-068	99-71-0.1	38	0.050	mg/L
Lead (Pb)	12398-069	99-71-0.3	20	0.050	mg/L
Lead (Pb)	12398-070	99-71-0.6	13	0.050	mg/L
Lead (Pb)	12398-071	99-72-0.1	26	0.050	mg/L
Lead (Pb)	12398-072	99-72-0.3	2.2	0.050	mg/L
Lead (Pb)	12398-073	99-74-0.1	8.8	0.050	mg/L
Lead (Pb)	12398-074	99-75-0.1	5.1	0.050	mg/L
Lead (Pb)	12398-075	99-76-0.6	3.4	0.050	mg/L
Lead (Pb)	12398-076	99-77-0.1	10	0.050	mg/L
Lead (Pb)	12398-077	99-77-0.3	4.6	0.050	mg/L
Lead (Pb)	12398-078	99-77-0.6	4.1	0.050	mg/L
Lead (Pb)	12398-079	99-78-0.1	3.0	0.050	mg/L
Lead (Pb)	12398-080	99-79-0.3	36	0.050	mg/L

ppm= parts per million = mg/l = milligram per liter

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

E. McKinney, Inorganics Manager

Jul 14, 2000
Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY

(Certification No. 1614)

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Sparger Technology, Inc.
With Automation in Mind

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

EPA Method 6010B
STLC Lead

Attention:	Mr. Dave Foley IT Corporation 1433 N. Market Blvd. Ste. 1 Sacramento, CA 95834	Date Sampled: Date Received: Date Analyzed: Invoice#:	Jun 26, 2000 Jul 10, 2000 Jul 14, 2000 12398JUL00
Project #:	808693	Project Name:	State Route 99
Matrix:	Leachate	Dilution: 1:	1

Analyte	LAB ID	Client ID	Concentration	Reporting Limits	Units
Lead (Pb)	12398-081	99-80-0.1	22	0.050	mg/L
Lead (Pb)	12398-082	99-80-0.3	22	0.050	mg/L
Lead (Pb)	12398-083	99-80-0.6	8.7	0.050	mg/L
Lead (Pb)	12398-084	99-81-0.1	4.8	0.050	mg/L
Lead (Pb)	12398-085	99-81-0.3	1.8	0.050	mg/L

ppm= parts per million = mg/l = milligram per liter

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

E. McKinney, Inorganics Manager

Jul 14, 2000
Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY

(Certification No. 1614)

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3050 Fite Circle, Suite 112 • Sacramento, California 95827 • (916) 362-8947 • FAX (916) 362-0947

IT Corporation
3939 Cambridge Road, Suite 220
Cameron Park, CA 95682

Telephone: (530) 676-6884
Fascimile: (530) 676-6885

IT Corporation
A Member of The IT Group

the IT group.

F A C S I M I L E

To: Evin McKinney

From: Lori Grant

Location: Sparger Technology, Inc.

Project: Kern-2 808693

Fax Number: 916-362-0947

Page 1 of : 3

Date: July 10, 2000

Please analyze the 85 samples on the following list for WET, **48-hour turnaround**.

Call me if you have any questions.

Cc: Dave Foley, Jerry White

TABLE 2
GPS Coordinates and Lead Analytical Results
Kern County State Route 99 PM 29.5 to 31.1
EA 06-421801

Location Number	Lab ID	Sample Number (Boring ID with depth in meters)	EPA 7420 Total Lead (mg/kg)	WET 6010 STLC Lead (mg/L)	DI WET 6010 STLC Lead (mg/L)	EPA 9045 pH
	12356-002	99-01-0.3	190			
2	12356-004	99-02-0.1	190			
3	12356-007	99-03-0.1	410			
5	12356-013	99-05-0.1	250			
6	12356-016	99-06-0.1	240			
7	12356-019	99-07-0.1	81			
9	12356-025	99-09-0.1	99			
10	12356-028	99-10-0.1	130			
14	12356-040	99-14-0.1	110			
28	12356-073	99-25-0.1	190			
29	12356-076	99-26-0.1	92			
33	12356-088	99-30-0.1	84			
34	12356-091*	99-31-0.1	220			
35	12356-094*	99-32-0.1	85			7.5
36	12356-097*	99-33-0.1	490			
37	12356-100*	99-34-0.1	270			
38	12356-103	99-35-0.1	110			
39	12356-106	99-36-0.1	240			
40	12356-109	99-37-0.1	84			
42	12356-115	99-39-0.1	160			
45	12356-121	99-41-0.1	290			
49	12356-232	99-45-0.1	150			7.4
	12356-233	99-45-0.3	110			
	12356-234	99-45-0.6	130			
50	12356-229	99-46-0.1	240			
	12356-230	99-46-0.3	170			
	12356-231	99-46-0.6	120			
51	12356-226	99-47-0.1	430			
	12356-227	99-47-0.3	150			
	12356-228	99-47-0.6	230			
52	12356-223	99-48-0.1	180			
53	12356-220	99-49-0.1	130			
	12356-221	99-49-0.3	120			
	12356-222	99-49-0.6	96			
54	12356-217	99-50-0.1	100			
	12356-218	99-50-0.3	170			7.2
	12356-219	99-50-0.6	88			
55	12356-214	99-51-0.1	90			
	12356-215	99-51-0.3	120			
	12356-216	99-51-0.6	100			
56	12356-212	99-52-0.1	270			
	12356-213	99-52-0.3	260			
57	12356-209	99-53-0.1	310			
	12356-210	99-53-0.3	150			
58	12356-206	99-54-0.1	1100			
	12356-207	99-54-0.3	360			
	12356-208	99-54-0.6	180			
59	12356-203	99-55-0.1	97			
62	12356-194	99-58-0.1	340			

TABLE 2
GPS Coordinates and Lead Analytical Results
Kern County State Route 99 PM 29.5 to 31.1
EA 06-421801

Location Number	Lab ID	Sample Number (Boring ID with depth in meters)	EPA 7420 Total Lead (mg/kg)	WET 6010 STLC Lead (mg/L)	DI WET 6010 STLC Lead (mg/L)	EPA 9045 pH
	12356-195	99-58-0.3	380			
	12356-196	99-58-0.6	290			
65	12356-185	99-61-0.1	440			
66	12356-182	99-62-0.1	280			
67	12356-180	99-63-0.1	220			
	12356-181	99-63-0.3	140			
68	12356-177	99-64-0.1	160			
69	12356-174	99-65-0.1	210			
70	12356-171	99-66-0.1	550			
	12356-172	99-66-0.3	170			7.4
	12356-173	99-66-0.6	120			
71	12356-168	99-67-0.1	100			
72	12356-165	99-68-0.1	160			
	12356-166	99-68-0.3	130			
73	12356-162	99-69-0.1	270			
	12356-164	99-69-0.6	150			
74	12356-159	99-70-0.1	140			
	12356-160	99-70-0.3	120			
75	12356-156	99-71-0.1	780			
	12356-157	99-71-0.3	320			
	12356-158	99-71-0.6	280			
76	12356-153	99-72-0.1	410			
	12356-154	99-72-0.3	81			
78	12356-147	99-74-0.1	480			
79	12356-144	99-75-0.1	100			
	12356-143	99-76-0.6	120			
81	12356-138	99-77-0.1	120			
	12356-139	99-77-0.3	180			
	12356-140	99-77-0.6	150			
82	12356-135	99-78-0.1	90			7.5
	12356-133	99-79-0.3	110			
84	12356-129	99-80-0.1	540			
	12356-130	99-80-0.3	470			
	12356-131	99-80-0.6	480			
85	12356-127	99-81-0.1	160			
	12356-128	99-81-0.3	150			

Notes:
ND = not detected at analytical reporting limit
NS = not sampled (refusal)
mg/kg = milligrams per kilogram
mg/l = milligrams per liter
EPA (Environmental Protection Agency) 7420 reporting limit = 30 mg/kg
WET (Waste Extraction Test) reporting limit = 0.05 mg/l
DI (Deionized) WET reporting limit = 0.01 mg/l
GPS = Global Positioning System
Lattitude in degrees
Longitude in degrees; negative sign is unavoidable artifact occuring as a result of data tra
raw data files into the Excel 97 ™ spreadsheet document.

IT - EMCON - *A Member of The IT Group*

1433 N. Market Boulevard
Sacramento, California 95834-1943

PHONE: 916/928-3300
FAX: 916/928-3341

FAX TRANSMITTAL

To:	Company	Fax No.	Telephone No.
Erin McKinney	Sparger		

From: Don Bransford

Project (Vision) No.:
Cost Code No.:

Date: 7/19/00

Total No. of Pages: 2

Subject: Analysis Request

☐ URGENT ☐ FOR REVIEW ☐ PLEASE REPLY ☐ PLEASE RECYCLE

Notes/Comments:

Please run TTLC WET on the enclosed samples
48 hr Rush

Wtout 5g/50mL

Sparger Technology, Inc.
With Automation in Mind

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

July 28, 2000

Invoice #: 12433
Project Name: State Route 99, Aerially Deposited Lead Investigation
Project #: 808693

Mr. Don Bransford
IT Corporation
1433 N. Market Blvd.
Sacramento, CA 95834

Mr. Don Bransford,

Enclosed are the analytical results for our invoice #12433. The samples were received at Sparger Technology Analytical Lab on July 19, 2000.

The samples were received in EPA specified containers. The samples were transported and received under documented chain of custody and stored at four (4) degrees C until analysis was performed.

The report consists of the following sections:

I. Sample Description & Analysis Request
II. Quality Control Report
III. Analysis Results

No problems were encountered with the analysis of your samples.

If you require additional information please give us a call at (916) 362-8947.

Sincerely,

R. L. James
Laboratory Director

3050 Fite Circle, Suite 112 • Sacramento, California 95827 • (916) 362-8947 • FAX (916) 362-0947

SPARGER TECHNOLOGY ANALYTICAL LABS LOG BOOK

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Sparger Technology, Inc.
With Automation in Mind

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

Attention:	Mr. Don Bransford	Date Sampled:	Jun 26, 2000	Location:	
Client:	IT Corporation	Date Received:	Jul 19, 2000	TAT:	48HR
Address:	1433 N. Market Blvd.			Due Date:	Jul 21, 2000
	Sacramento, CA 95834	Invoice#:	12433JUL00	P.O #:	
Project #:	808693	Project Name:	State Route 99, Aerially Deposited Lead Investigation	Location: Logged in By:	

Sample Description & Analysis Request

Laboratory ID	Matrix	Sample Date	Sample ID	Method Number	Analysis Notes
12433 001	S	6/26/00	99-01-0.3'	6010	DI WET
12433 002	S	6/26/00	99-02-0.1'	6010	DI WET
12433 003	S	6/26/00	99-03-0.1'	6010	DI WET
12433 004	S	6/26/00	99-05-0.1'	6010	DI WET
12433 005	S	6/26/00	99-06-0.1'	6010	DI WET
12433 006	S	6/26/00	99-25-0.1'	6010	DI WET
12433 007	S	6/26/00	99-31-0.1'	6010	DI WET
12433 008	S	6/26/00	99-33-0.1'	6010	DI WET
12433 009	S	6/26/00	99-34-0.1'	6010	DI WET
12433 010	S	6/26/00	99-36-0.1'	6010	DI WET
12433 011	S	6/26/00	99-39-0.1'	6010	DI WET
12433 012	S	6/26/00	99-41-0.1'	6010	DI WET
12433 013	S	6/26/00	99-45-0.1'	6010	DI WET
12433 014	S	6/26/00	99-45-0.6'	6010	DI WET
12433 016	S	6/26/00	99-46-0.1'	6010	DI WET
12433 015	S	6/26/00	99-47-0.1'	6010	DI WET
12433 017	S	6/26/00	99-47-0.6'	6010	DI WET
12433 018	S	6/26/00	99-48-0.1'	6010	DI WET
12433 019	S	6/26/00	99-48-0.6'	6010	DI WET
12433 020	S	6/26/00	99-50-0.3'	6010	DI WET
12433 021	S	6/26/00	99-51-0.1'	6010	DI WET
12433 022	S	6/26/00	99-51-0.6'	6010	DI WET

SPARGER TECHNOLOGY ANALYTICAL LABS LOG BOOK

Attention:	Mr. Don Bransford	Date Sampled:	Jun 26, 2000	Location:	
Client:	IT Corporation	Date Received:	Jul 19, 2000	TAT:	48HR
Address:	1433 N. Market Blvd.			Due Date:	Jul 21, 2000
	Sacramento, CA 95834	Invoice#:	12433JUL00	P.O #:	
Project #:	808693	Project Name:	State Route 99, Aerially Deposited Lead Investigation	Location: Logged In By:	Thai

Sample Description & Analysis Request

Laboratory ID	Matrix	Sample Date	Sample ID	Method Number	Analysis Notes
12433-023	S	6/26/00	99-62-013	6010	DI WET
12433-024	S	6/26/00	99-52-013	6010	DI WET
12433-025	S	6/26/00	99-53-010	6010	DI WET
12433-026	S	6/26/00	99-53-013	6010	DI WET
12433-027	S	6/26/00	99-54-010	6010	DI WET
12433-028	S	6/26/00	99-54-013	6010	DI WET
12433-029	S	6/26/00	99-54-016	6010	DI WET
12433-030	S	6/26/00	99-55-013	6010	DI WET
12433-031	S	6/26/00	99-55-016	6010	DI WET
12433-032	S	6/26/00	99-56-016	6010	DI WET
12433-033	S	6/26/00	99-61-013	6010	DI WET
12433-034	S	6/26/00	99-62-016	6010	DI WET
12433-035	S	6/26/00	99-63-010	6010	DI WET
12433-036	S	6/26/00	99-63-013	6010	DI WET
12433-037	S	6/26/00	99-64-013	6010	DI WET
12433-038	S	6/26/00	99-65-010	6010	DI WET
12433-039	S	6/26/00	99-66-010	6010	DI WET
12433-040	S	6/26/00	99-66-013	6010	DI WET
12433-041	S	6/26/00	99-66-016	6010	DI WET
12433-042	S	6/26/00	99-67-013	6010	DI WET
12433-043	S	6/26/00	99-68-010	6010	DI WET
12433-044	S	6/26/00	99-68-013	6010	DI WET

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SPARGER TECHNOLOGY ANALYTICAL LABS LOG BOOK

Attention:	Mr. Don Bransford	Date Sampled:	Jun 26, 2000	Location:	
Client:	IT Corporation	Date Received:	Jul 19, 2000	TAT:	48HR
Address:	1433 N. Market Blvd.			Due Date:	Jul 21, 2000
	Sacramento, CA 95834	Invoice#:	12433JUL00	P.O #:	
Project #:	808693	Project Name:	State Route 99, Aerially Deposited Lead Investigation	Location:	
				Logged In By:	Thai

Sample Description & Analysis Request

Laboratory ID	Matrix	Sample Date	Sample ID	Method Number	Analysis Notes
12433 045	S	6/26/00	99-69-06	6010	DI WET
12433 046	S	6/26/00	99-70-01	6010	DI WET
12433 047	S	6/26/00	99-70-02	6010	DI WET
12433 048	S	6/26/00	99-70-03	6010	DI WET
12433 049	S	6/26/00	99-70-04	6010	DI WET
12433 050	S	6/26/00	99-70-05	6010	DI WET
12433 051	S	6/26/00	99-72-01	6010	DI WET
12433 052	S	6/26/00	99-72-02	6010	DI WET
12433 053	S	6/26/00	99-72-03	6010	DI WET
12433 054	S	6/26/00	99-72-04	6010	DI WET
12433 055	S	6/26/00	99-76-01	6010	DI WET
12433 056	S	6/26/00	99-80-01	6010	DI WET
12433 057	S	6/26/00	99-80-02	6010	DI WET
12433 058	S	6/26/00	99-80-03	6010	DI WET

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Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

II Quality Control

A. **Project Specific QC.** No project specific QC (i.e., spikes and/or duplicates) was requested.

B. **Method Blank Results.** A method blank is a laboratory-generated sample which assesses the degree to which laboratory operations and procedures cause false-positive analytical results for your sample.

No target parameters were detected in the method blank associated with your sample at the reporting limit levels noted on the data sheets in the Analytical Results section.

C. **Laboratory Control Spike.** A Laboratory Control Spike (LCS) is a sample which is spiked with known analyte concentrations, and analyzed at approximately 10% of the sample load in order to establish method-specific control limits. The LCS results associated with your samples are on the attached Laboratory Control Spike and Laboratory Control Spike Duplicate Analysis Report.

D. **Matrix Spike Results.** A Matrix Spike is a sample which is spiked with known analyte concentrations, and analyzed at approximately 10% of the sample load in order to establish method-specific control limits. The Matrix Spike results associated with the other analyses for your samples are on the attached Matrix Spike and Matrix Spike Duplicate Analysis Report.

Accuracy is measured by Percent Recovery as in:

$$\% \text{ recovery} = \frac{(\text{measured concentration}) \times 100}{(\text{actual concentration})}$$

III Analysis Results

Results are on the attached data sheets.

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Analytical Laboratory Division
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EPA Method 6010B
STLC (DI Water) Lead
Method Blank

Attention:	Mr. Don Bransford IT Corporation 1433 N. Market Blvd. Sacramento, CA 95834	Date Sampled: Date Received: Date Analyzed: Invoice#:	Jun 26, 2000 Jul 19, 2000 Jul 24, 2000 12433JUL00
Project #:	808693	Project Name:	State Route 99, Aerially Deposited Lead Investigation
Client ID:	Method Blank	LAB ID:	000724A
Matrix:	Leachate	Dilution:	1: 1

Analyte	Concentration	Reporting Limit	Unit
Lead (Pb)	ND	0.010	mg/L

ppm= parts per million = mg/l = milligram per liter

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

E. McKinney, Inorganics Manager

Jul 24, 2000
Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1614)

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Sparger Technology, Inc.
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Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

EPA Method 6010B
STLC (DI Water) Lead
LCS / LCSD Recoveries

Attention:	Mr. Don Bransford IT Corporation 1433 N. Market Blvd. Sacramento, CA 95834	Date Sampled: Date Received: Date Analyzed: Invoice#:	Jun 26, 2000 Jul 19, 2000 Jul 24, 2000 12433JUL00
Project #:	808693	Project Name:	State Route 99, Aerially Deposited Lead Investigation
Client ID:	LCS/LCSD	LAB ID:	000724A
Matrix:	Leachate	Dilution: 1:	1

Unit = (mg/L)

Element	Spike Conc.	LCS	% Recovery	Duplicate LCS	Duplicate % Recovery	% RPD
Lead (Pb)	0.500	0.530	106%	0.499	99.8%	6.0%

ppm= parts per million = mg/l = milligram per liter

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

E. McKinney, Inorganics Manager

Jul 24, 2000
Date Reported

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Sparger Technology, Inc.
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Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

EPA Method 6010B
STLC (DI Water) Lead
MS/MSD Recoveries

Attention: Mr. Don Bransford
IT Corporation
1433 N. Market Blvd.
Sacramento, CA 95834

Project #: 808693

Client ID: MS/MSD

Matrix: Leachate

Date Sampled: Jun 26, 2000
Date Received: Jul 19, 2000
Date Analyzed: Jul 24, 2000
Invoice#: 12433JUL00

Project Name: State Route 99, Aerially Deposited Lead Investigation

LAB ID: 12433-001

Dilution: 1: 1

Unit = (mg/L)

Element	Sample Conc.	Spike Conc.	MS	% Recovery	Duplicate MSD	Duplicate % Recovery	% RPD
Lead (Pb)	0.0183	0.500	0.514	99.1%	0.520	100%	1.2%

ppm= parts per million = mg/l = milligram per liter
ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.
Note: If sample concentration is higher than spike concentration, recoveries may be either high or low.
Note: If sample concentration is lower than spike concentration, recoveries may be either high or low due to matrix interference.

E. McKinney, Inorganics Manager

Jul 24, 2000
Date Reported

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Sparger Technology, Inc.
With Automation in Mind

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

EPA Method 6010B
STLC (DI Water) Lead

Attention:	Mr. Don Bransford IT Corporation 1433 N. Market Blvd. Sacramento, CA 95834	Date Sampled: Date Received: Date Analyzed: Invoice#:	Jun 26, 2000 Jul 19, 2000 Jul 24, 2000 12433JUL00
Project #:	808693	Project Name:	State Route 99, Aerially Deposited Lead Investigation
Matrix:	Leachate	Dilution: 1:	1

	LAB ID	Client ID	Concentration	Reporting Limits	Units
1.)	12433-001	99-01.0.3	0.018	0.010	mg/L
2.)	12433-002	99-02-0.1	ND	0.010	mg/L
3.)	12433-003	99-03-0.1	0.017	0.010	mg/L
4.)	12433-004	99-05-0.1	0.022	0.010	mg/L
5.)	12433-005	99-06-0.1	0.013	0.010	mg/L
6.)	12433-006	99-25-0.1	ND	0.010	mg/L
7.)	12433-007	99-31-0.1	0.037	0.010	mg/L
8.)	12433-008	99-33-0.1	0.078	0.010	mg/L
9.)	12433-009	99-34-0.1	0.040	0.010	mg/L
10.)	12433-010	99-36-0.1	0.012	0.010	mg/L

ppm= parts per million = mg/l = milligram per liter

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

E. McKinney, Inorganics Manager

Jul 24, 2000
Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY

(Certification No. 1614)

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Sparger Technology, Inc.
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Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

EPA Method 6010B
STLC (DI Water) Lead

Attention:	Mr. Don Bransford IT Corporation 1433 N. Market Blvd. Sacramento, CA 95834	Date Sampled: Date Received: Date Analyzed: Invoice#:	Jun 26, 2000 Jul 19, 2000 Jul 24, 2000 12433JUL00
Project #:	808693	Project Name:	State Route 99, Aerially Deposited Lead Investigation
Matrix:	Leachate	Dilution: 1:	1

	LAB ID	Client ID	Concentration	Reporting Limits	Units
1.)	12433-011	99-39-0.1	0.012	0.010	mg/L
2.)	12433-012	99-41-0.1	ND	0.010	mg/L
3.)	12433-013	99-45-0.1	0.033	0.010	mg/L
4.)	12433-014	99-45-0.6	0.071	0.010	mg/L
5.)	12433-015	99-46-0.1	0.036	0.010	mg/L
6.)	12433-016	99-47-0.1	0.037	0.010	mg/L
7.)	12433-017	99-47-0.3	0.040	0.010	mg/L
8.)	12433-018	99-47-0.6	ND	0.010	mg/L
9.)	12433-019	99-48-0.1	0.034	0.010	mg/L
10.)	12433-020	99-50-0.3	ND	0.010	mg/L

ppm= parts per million = mg/l = milligram per liter

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

E. McKinney, Inorganics Manager

Jul 24, 2000
Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY

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Sparger Technology, Inc.
With Automation in Mind

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

EPA Method 6010B
STLC (DI Water) Lead

Attention:	Mr. Don Bransford IT Corporation 1433 N. Market Blvd. Sacramento, CA 95834	Date Sampled: Date Received: Date Analyzed: Invoice#:	Jun 26, 2000 Jul 19, 2000 Jul 24, 2000 12433JUL00
Project #:	808693	Project Name:	State Route 99, Aerially Deposited Lead Investigation
Matrix:	Leachate	Dilution: 1:	1

	LAB ID	Client ID	Concentration	Reporting Limits	Units
1.)	12433-021	99-51-0.1	ND	0.010	mg/L
2.)	12433-022	99-51-0.3	0.036	0.010	mg/L
3.)	12433-023	99-52-0.1	0.041	0.010	mg/L
4.)	12433-024	99-52-0.3	0.11	0.010	mg/L
5.)	12433-025	99-53-0.1	0.092	0.010	mg/L
6.)	12433-026	99-53-0.3	0.077	0.010	mg/L
7.)	12433-027	99-54-0.1	0.90	0.010	mg/L
8.)	12433-028	99-54-0.3	0.17	0.010	mg/L
9.)	12433-029	99-54-0.6	0.064	0.010	mg/L
10.)	12433-030	99-58-0.1	0.24	0.010	mg/L

ppm= parts per million = mg/l = milligram per liter

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

E. McKinney, Inorganics Manager

Jul 24, 2000
Date Reported

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Sparger Technology, Inc.
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Analytical Laboratory Division
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EPA Method 6010B
STLC (DI Water) Lead

Attention:	Mr. Don Bransford IT Corporation 1433 N. Market Blvd. Sacramento, CA 95834	Date Sampled: Date Received: Date Analyzed: Invoice#:	Jun 26, 2000 Jul 19, 2000 Jul 24, 2000 12433JUL00
Project #:	808693	Project Name:	State Route 99, Aerially Deposited Lead Investigation
Matrix:	Leachate	Dilution: 1:	1

	LAB ID	Client ID	Concentration	Reporting Limits	Units
1.)	12433-031	99-58-0.3	0.045	0.010	mg/L
2.)	12433-032	99-58-0.6	0.030	0.010	mg/L
3.)	12433-033	99-61-0.1	0.050	0.010	mg/L
4.)	12433-034	99-62-0.1	0.12	0.010	mg/L
5.)	12433-035	99-63-0.1	0.073	0.010	mg/L
6.)	12433-036	99-63-0.3	0.033	0.010	mg/L
7.)	12433-037	99-64-0.1	ND	0.010	mg/L
8.)	12433-038	99-65-0.1	0.086	0.010	mg/L
9.)	12433-039	99-66-0.1	0.37	0.010	mg/L
10.)	12433-040	99-66-0.3	0.036	0.010	mg/L

ppm= parts per million = mg/l = milligram per liter

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

E. McKinney, Inorganics Manager

Jul 24, 2000
Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY

(Certification No. 1614)

3050 Fite Circle, Suite 112 • Sacramento, California 95827 • (916) 362-8947 • FAX (916) 362-0947

Sparger Technology, Inc.
With Automation in Mind

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

EPA Method 6010B
STLC (DI Water) Lead

Attention:	Mr. Don Bransford IT Corporation 1433 N. Market Blvd. Sacramento, CA 95834	Date Sampled: Date Received: Date Analyzed: Invoice#:	Jun 26, 2000 Jul 19, 2000 Jul 24, 2000 12433JUL00
Project #:	808693	Project Name:	State Route 99, Aerially Deposited Lead Investigation
Matrix:	Leachate	Dilution: 1:	1

	LAB ID	Client ID	Concentration	Reporting Limits	Units
1.)	12433-041	99-66-0.6	0.084	0.010	mg/L
2.)	12433-042	99-67-0.1	ND	0.010	mg/L
3.)	12433-043	99-68-0.1	0.028	0.010	mg/L
4.)	12433-044	99-69-0.1	ND	0.010	mg/L
5.)	12433-045	99-69-0.6	ND	0.010	mg/L
6.)	12433-046	99-70-0.1	0.012	0.010	mg/L
7.)	12433-047	99-70-0.3	0.028	0.010	mg/L
8.)	12433-048	99-71-0.1	0.093	0.010	mg/L
9.)	12433-049	99-71-0.3	0.027	0.010	mg/L
10.)	12433-050	99-71-0.6	0.018	0.010	mg/L

ppm= parts per million = mg/l = milligram per liter

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

E. McKinney, Inorganics Manager

Jul 24, 2000
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EPA Method 6010B
STLC (DI Water) Lead

Attention:	Mr. Don Bransford IT Corporation 1433 N. Market Blvd. Sacramento, CA 95834	Date Sampled: Date Received: Date Analyzed: Invoice#:	Jun 26, 2000 Jul 19, 2000 Jul 24, 2000 12433JUL00
Project #:	808693	Project Name:	State Route 99, Aerially Deposited Lead Investigation
Matrix:	Leachate	Dilution: 1:	1

	LAB ID	Client ID	Concentration	Reporting Limits	Units
1.)	12433-051	99-72-0.1	0.12	0.010	mg/L
2.)	12433-052	99-74-0.1	ND	0.010	mg/L
3.)	12433-053	99-75-0.1	ND	0.010	mg/L
4.)	12433-054	99-77-0.1	ND	0.010	mg/L
5.)	12433-055	99-79-0.3	ND	0.010	mg/L
6.)	12433-056	99-80-0.1	0.27	0.010	mg/L
7.)	12433-057	99-80-0.3	0.48	0.010	mg/L
8.)	12433-058	99-80-0.6	0.15	0.010	mg/L

ppm= parts per million = mg/l = milligram per liter

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

E. McKinney, Inorganics Manager

Jul 24, 2000
Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
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Lead DI WET Request
Kern County State Route 99 PM 29.5 to 31.1
EA 06-421801

Location Number	Lab ID	Sample Number (Boring ID with depth in meters)	EPA 7420 Total Lead (mg/kg)	WET 6010 STLC Lead (mg/L)	DI WET 6010 STLC Lead (mg/L)	EPA 9045 pH
	12356-002	99-01-0.3	190	6.54		
2	12356-004	99-02-0.1	190	8.43		7.6
3	12356-007	99-03-0.1	410	15.0		
5	12356-013	99-05-0.1	250	9.41		
6	12356-016	99-06-0.1	240	6.84		
25	12356-073	99-25-0.1	190	7.47		
31	12356-091	99-31-0.1	220	11.9		
33	12356-097	99-33-0.1	490	17.0		
34	12356-100	99-34-0.1	270	19.1		
36	12356-106	99-36-0.1 ✓	240	10.8		
39	12356-115	99-39-0.1	160	5.59		
41	12356-121	99-41-0.1	290	8.64		
45	12356-232	99-45-0.1	150	6.88		7.4
	12356-234	99-45-0.6	130	5.49		
46	12356-229	99-46-0.1	240	7.26		
47	12356-228	99-47-0.1	430	11.1		
	12356-227	99-47-0.3	150	9.06		
	12356-226	99-47-0.6	230	5.09		
48	12356-223	99-48-0.1	180	8.66		
	12356-218	99-50-0.3	170	6.18		
51	12356-214	99-51-0.1	90	11.7		
	12356-215	99-51-0.3	120	5.76		
52	12356-212	99-52-0.1	270	11.3		
	12356-213	99-52-0.3	260	11.3		
53	12356-209	99-53-0.1	310	29.8		
	12356-210	99-53-0.3	150	7.98		
54	12356-206	99-54-0.1	*1,100*	39.4		
	12356-207	99-54-0.3	360	18.8		
	12356-208	99-54-0.6	180	5.85		
58	12356-194	99-58-0.1 ✓	340	23.9		
	12356-195	99-58-0.3 ✓	380	20.4		
	12356-196	99-58-0.6 ✓	290	6.88		
61	12356-185	99-61-0.1	440	12.8		
62	12356-182	99-62-0.1	280	17.5		
63	12356-180	99-63-0.1	220	13.6		
	12356-181	99-63-0.3	140	5.84		
64	12356-177	99-64-0.1	160	6.92		
65	12356-174	99-65-0.1	210	9.27		
66	12356-171	99-66-0.1	550	31.8		
	12356-172	99-66-0.3	170	15.5		7.4
	12356-173	99-66-0.6	120	6.27		
67	12356-168	99-67-0.1	100	11.2		
68	12356-165	99-68-0.1	160	6.01		
69	12356-162	99-69-0.1	270	11.8		
	12356-164	99-69-0.6	150	6.36		
70	12356-159	99-70-0.1	140	5.82		
	12356-160	99-70-0.3	120	5.14		
71	12356-156	99-71-0.1	780	37.5		
	12356-157	99-71-0.3	320	19.5		
	12356-158	99-71-0.6	280	12.6		
72	12356-153	99-72-0.1	410	26.2		
74	12356-147	99-74-0.1	480	8.80		
75	12356-144	99-75-0.1	100	5.13		
77	12356-138	99-77-0.1	120	10.5		
	12356-133	99-79-0.3	110	36.1		7.5
80	12356-129	99-80-0.1	540	22.4		
	12356-130	99-80-0.3	470	21.5		
	12356-131	99-80-0.6	490	8.67		

Sparger Technology, Inc.
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Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

Mr. Dave Foley
IT Corporation
1433 N. Market Boulevard
Sacramento, CA 95834

Client	IT Corporation
Workorder	12530 Kern County State Route 99
Received	08/25/00

The samples were received in EPA specified containers. The samples were transported and received under documented chain of custody and stored at four (4) degrees C until analysis was performed.

Sparger Technology, Inc. ID Suffix Keys - These descriptors will follow the Sparger Technology, Inc. ID numbers and help identify the specific sample and clarify the report.

DUP - Matrix Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
RPD - Relative Percent Difference
QC - Additional Quality Control
DIL - Results from a diluted sample

Ray James
Laboratory Director

3050 Fite Circle, Suite 112 • Sacramento, California 95827 • (916) 362-8947 • FAX (916) 362-0947

Sparger Technology, Inc.
With Automation in Mind

Analytical Laboratory Division
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Test Certificate of Analysis

Client ID IT Corporation
Workorder # 12530 **Workorder ID** Kern County State Route 99

Parameter pH
Method 9045 PH

Lab ID	Sample ID	Result	RDL	Units	Collected	Analyzed	Matrix
12530001	99-34-0.1	6.7	0.1	units	06/26/00	08/25/00	Soil
12530002	99-39-0.1	7.0	0.1	units	06/26/00	08/25/00	Soil
12530003	99-47-0.3	7.2	0.1	units	06/26/00	08/25/00	Soil
12530004	99-54-0.1	7.0	0.1	units	06/26/00	08/25/00	Soil
12530005	99-58-0.3	7.1	0.1	units	06/26/00	08/25/00	Soil
12530006	99-62-0.1	7.3	0.1	units	06/26/00	08/25/00	Soil
12530007	99-63-0.1	6.9	0.1	units	06/26/00	08/25/00	Soil
12530008	99-65-0.1	7.2	0.1	units	06/26/00	08/25/00	Soil
12530009	99-71-0.1	6.3	0.1	units	06/26/00	08/25/00	Soil
12530010	99-72-0.1	7.2	0.1	units	06/26/00	08/25/00	Soil
12530011	99-80-0.3	7.3	0.1	units	06/26/00	08/25/00	Soil
12530012	99-05-0.1	7.7	0.1	units	06/26/00	08/25/00	Soil

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Duplicate Report

Client ID	IT Corporation		
Workorder ID	Kern County State Route 99		
Laboratory ID	10705	**Sampled**	
Sample ID	DUP for HBN 11568 [PHV/1037]	**Received**	08/23/00
Matrix	Soil		

Parameter	Method	Prep Date	Analyzed	Result	RDL	Units
pH	9045 PH	N/A	08/25/00	6.7	0.1	units

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QC SUMMARY

Client ID	IT Corporation		
Workorder ID	Kern County State Route 99		
QC Batch	PHX 1034	**Original**	12530001
Matrix	Soil	**Sample**	Duplicate [10705]

Parameter	RPD	RPD Limits
pH	0	

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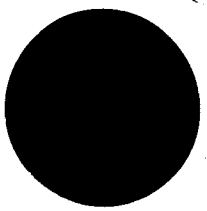

IT Corporation
3939 Cambridge Road, Suite 220
Cameron Park, CA 95682

Telephone: (530) 676-6884
Fascimile: (530) 676-6885

the IT group

IT Corporation
A Member of The IT Group

F A C S I M I L E

To: Evin McKinney

From: Lori Grant

Location: Sparger Technology, Inc.

Project: Fresno 808693

Fax Number: 916-362-0947

Page 1 of : 6

Date: August 23, 2000

Please analyze the samples indicated with a ✳ on the following pages for pH, standard turnaround. There are a total of 12 samples for Route 99. Please fax or e-mail the results to the Cameron Park office.

Call me if you have any questions.

Cc: Dave Foley, Gerry White

TABLE 2
GPS Coordinates and
Lead Analytical Results
Kern County State Route 99 PM 29.5 to 31.1
EA 06-421801

Location Number	Lab ID	Sample Number (Boring ID with depth in meters)	EPA 7420 Total Lead (mg/kg)	WET 6010 STLC Lead (mg/L)	DI WET 6010 STLC Lead (mg/L)	EPA 9045 pH
19	12356-055	99-19-0.1	ND			
	12356-056	99-19-0.3	ND			
	12356-057	99-19-0.6	ND			
20	12356-058	99-20-0.1	42			
	12356-059	99-20-0.3	ND			
	12356-060	99-20-0.6	ND			
21	12356-061	99-21-0.1	ND			
	12356-062	99-21-0.3	ND			
	12356-063	99-21-0.6	ND			
22	12356-064	99-22-0.1	ND			
	12356-065	99-22-0.3	ND			
	12356-066	99-22-0.6	ND			
23	12356-067	99-23-0.1	ND			
	12356-068	99-23-0.3	ND			
	12356-069	99-23-0.6	ND			
24	12356-070	99-24-0.1	48			
	12356-071	99-24-0.3	ND			
	12356-072	99-24-0.6	ND			7.9
25	12356-073	99-25-0.1	**190**	7.47	ND	
	12356-074	99-25-0.3	ND			
	12356-075	99-25-0.6	ND			
26	12356-076	99-26-0.1	**92**	4.33		
	12356-077	99-26-0.3	ND			
	12356-078	99-26-0.6	ND			
27	12356-079	99-27-0.1	ND			
	12356-080	99-27-0.3	ND			
	12356-081	99-27-0.6	ND			
28	12356-082	99-28-0.1	**74**			
	12356-083	99-28-0.3	ND			6.4
	12356-084	99-28-0.6	ND			
29	12356-085	99-29-0.1	ND			
	12356-086	99-29-0.3	ND			
	12356-087	99-29-0.6	ND			
30	12356-088	99-30-0.1	**84**	0.933		
	12356-089	99-30-0.3	ND			
	12356-090	99-30-0.6	ND			
31	12356-091*	99-31-0.1	**220**	**11.9**	0.037	
	12356-092*	99-31-0.3	ND			
	12356-093*	99-31-0.6	ND			
32	12356-094*	99-32-0.1	**85**	1.64		7.5
	12356-095*	99-32-0.3	ND			
	12356-096*	99-32-0.6	ND			
33	12356-097*	99-33-0.1	**490**	**17.0**	0.078	
	12356-098*	99-33-0.3	ND			
	12356-099*	99-33-0.6	ND			
34	12356-100*	99-34-0.1	**270**	**19.1**	0.040	
	12356-101	99-34-0.3	ND			
	12356-102	99-34-0.6	ND			
35	12356-103	99-35-0.1	**110**	3.41		
	12356-104	99-35-0.3	ND			
	12356-105	99-35-0.6	ND			
36	12356-106	99-36-0.1	**240**	**10.8**	0.012	
	12356-107	99-36-0.3	ND			
	12356-108	99-36-0.6	ND			
37	12356-109	99-37-0.1	**84**	2.79		
	12356-110	99-37-0.3	ND			

TABLE 2
GPS Coordinates and Lead Analytical Results
Kern County State Route 99 PM 29.5 to 31.1
EA 06-421801

Location Number	Lab ID	Sample Number (Boring ID with depth in meters)	EPA 7420 Total Lead (mg/kg)	WET 6010 STLC Lead (mg/L)	DI WET 6010 STLC Lead (mg/L)	EPA 9045 pH
	12356-111	99-37-0.6	ND			
38	12356-112	99-38-0.1	75			
	12356-113	99-38-0.3	ND			
	12356-114	99-38-0.6	36			
39	12356-115	99-39-0.1	160	5.59	0.012	
	12356-116	99-39-0.3	31			
	12356-117	99-39-0.6	ND			
40	12356-118	99-40-0.1	62			
	12356-119	99-40-0.3	ND			
	12356-120	99-40-0.6	37			
41	12356-121	99-41-0.1	290	8.64	ND	
	12356-122	99-41-0.3	ND			
	12356-123	99-41-0.6	ND			
42	12356-124	99-42-0.1	55			
	12356-125	99-42-0.3	61			
	12356-126	99-42-0.6	ND			
45	12356-232	99-45-0.1	150	8.88	0.033	7.4
	12356-233	99-45-0.3	110	3.88		
	12356-234	99-45-0.6	130	5.49	0.071	
46	12356-229	99-46-0.1	240	7.26	0.036	
	12356-230	99-46-0.3	170	4.34		
	12356-231	99-46-0.6	120	4.76		
47	12356-226	99-47-0.1	430	11.1	0.037	
	12356-227	99-47-0.3	150	9.06	0.040	
	12356-228	99-47-0.6	230	5.09	ND	
48	12356-223	99-48-0.1	180	8.66	0.034	
	12356-224	99-48-0.3	44			
	12356-225	99-48-0.6	ND			
49	12356-220	99-49-0.1	130	3.92		
	12356-221	99-49-0.3	120	3.92		
	12356-222	99-49-0.6	96	2.06		
50	12356-217	99-50-0.1	100	4.40		
	12356-218	99-50-0.3	170	6.18	ND	
	12356-219	99-50-0.6	88	3.98		7.2
51	12356-214	99-51-0.1	90	11.7	ND	
	12356-215	99-51-0.3	120	5.76	0.036	
	12356-216	99-51-0.6	100	4.12		
52	12356-212	99-52-0.1	270	11.3	0.041	
	12356-213	99-52-0.3	260	11.3	0.11	
		99-52-0.6				
53	12356-209	99-53-0.1	310	29.8	0.092	
	12356-210	99-53-0.3	150	7.98	0.077	
	12356-211	99-53-0.6	39			
54	12356-206	99-54-0.1	*1,100*	39.4	0.90	
	12356-207	99-54-0.3	360	18.8	0.17	
	12356-208	99-54-0.6	180	5.85	0.064	
55	12356-203	99-55-0.1	97	2.58		
	12356-204	99-55-0.3	58			
	12356-205	99-55-0.6	ND			
56	12356-200	99-56-0.1	55			
	12356-201	99-56-0.3	40			
	12356-202	99-56-0.6	56			
57	12356-197	99-57-0.1	41			
	12356-198	99-57-0.3	ND			
	12356-199	99-57-0.6	ND			
58	12356-194	99-58-0.1	340	23.9	0.24	

TABLE 2
GPS Coordinates and Lead Analytical Results
Kern County State Route 99 PM 29.5 to 31.1
EA 06-421801

Location Number	Lab ID	Sample Number (Boring ID with depth in meters)	EPA 7420 Total Lead (mg/kg)	WET 6010 STLC Lead (mg/L)	DI WET 6010 STLC Lead (mg/L)	EPA 9045 pH
	12356-195	99-58-0.3	380	20.4	0.045	
	12356-196	99-58-0.6	290	6.88	0.030	
59	12356-191	99-59-0.1	55			
	12356-192	99-59-0.3	ND			
	12356-193	99-59-0.6	ND			
60	12356-188	99-60-0.1	41			
	12356-189	99-60-0.3	ND			
	12356-190	99-60-0.6	ND			
61	12356-185	99-61-0.1	440	12.8	0.050	
	12356-186	99-61-0.3	75			
	12356-187	99-61-0.6	31			
62	12356-182	99-62-0.1	280	17.5	0.12	
	12356-183	99-62-0.3	43			
	12356-184	99-62-0.6	ND			
63	12356-180	99-63-0.1	220	13.6	0.073	
	12356-181	99-63-0.3	140	5.84	0.033	
		99-63-0.6				
64	12356-177	99-64-0.1	160	6.92	ND	
	12356-178	99-64-0.3	64			
	12356-179	99-64-0.6	54			
65	12356-174	99-65-0.1	210	9.27	0.086	
	12356-175	99-65-0.3	ND			
	12356-176	99-65-0.6	ND			
66	12356-171	99-66-0.1	550	31.8	0.37	
	12356-172	99-66-0.3	170	15.5	0.036	7.4
	12356-173	99-66-0.6	120	6.27	0.084	
67	12356-168	99-67-0.1	100	11.2	ND	
	12356-169	99-67-0.3	62			
	12356-170	99-67-0.6	57			
68	12356-165	99-68-0.1	160	6.01	0.028	
	12356-166	99-68-0.3	130	4.57		
	12356-167	99-68-0.6	67			
69	12356-162	99-69-0.1	270	11.8	ND	
	12356-163	99-69-0.3	45			
	12356-164	99-69-0.6	150	6.36	ND	
70	12356-159	99-70-0.1	140	5.82	0.012	
	12356-160	99-70-0.3	120	5.14	0.028	
	12356-161	99-70-0.6	30			
71	12356-156	99-71-0.1	780	37.5	0.093	
	12356-157	99-71-0.3	320	19.5	0.027	
	12356-158	99-71-0.6	280	12.6	0.018	
72	12356-153	99-72-0.1	410	26.2	0.12	
	12356-154	99-72-0.3	81	2.19		
	12356-155	99-72-0.6	34			7.0
73	12356-150	99-73-0.1	73			
	12356-151	99-73-0.3	54			
	12356-152	99-73-0.6	75			
74	12356-147	99-74-0.1	480	8.80	ND	
	12356-148	99-74-0.3	ND			
	12356-149	99-74-0.6	ND			
75	12356-144	99-75-0.1	100	5.13	ND	
	12356-145	99-75-0.3	41			
	12356-146	99-75-0.6	30			
76	12356-141	99-76-0.1	31			
	12356-142	99-76-0.3	ND			
	12356-143	99-76-0.6	120	3.37		

TABLE 2
GPS Coordinates and
Lead Analytical Results
Kern County State Route 99 PM 29.5 to 31.1
EA 06-421801

Location Number	Lab ID	Sample Number (Boring ID with depth in meters)	EPA 7420 Total Lead (mg/kg)	WET 6010 STLC Lead (mg/L)	DI WET 6010 STLC Lead (mg/L)	EPA 9045 pH
77	12356-138	99-77-0.1	120	10.5	ND	
	12356-139	99-77-0.3	180	4.57		
	12356-140	99-77-0.6	150	4.14		
78	12356-135	99-78-0.1	90	3.02		
	12356-136	99-78-0.3	62			
	12356-137	99-78-0.6	42			
79	12356-132	99-79-0.1	52			
	12356-133	99-79-0.3	110	36.1	ND	7.5
	12356-134	99-79-0.6	50			
80	12356-129	99-80-0.1	540	22.4	0.27	
	12356-130	99-80-0.3	470	21.5	0.48	*
	12356-131	99-80-0.6	480	8.67	0.15	
81	12356-127	99-81-0.1	160	4.85		
	12356-128	99-81-0.3	150	1.83		
		99-81-0.6				

Notes:
ND = not detected at analytical reporting limit
NS = not sampled (refusal)
mg/kg = milligrams per kilogram
mg/l = milligrams per liter
EPA (Environmental Protection Agency) 7420 reporting limit = 30 mg
WET (Waste Extraction Test) reporting limit = 0.05 mg/l
DI (Deionized) WET reporting limit = 0.01 mg/l
GPS = Global Positioning System
Lattitude in degrees
Longitude in degrees; negative sign is unavoidable artifact occuring
raw data files into the Excel 97 ™ spreadsheet document.
Altitude in feet relative to the mean sea level (feet MSL); values are
STLC = Soluble Threshold Limit Concentration

*NO. 12 Added - Per Lori Grant
12356-013 - 99-05-0.1