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FUEL DISPENSER AND LINE REMOVAL REPORT

BERNARD'S 1051 AIRWAY BOULEVARD LIVERMORE, CALIFORNIA

> Grayland No. 022-280 August 10, 2001

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FUEL DISPENSER AND LINE REMOVAL REPORT

BERNARD'S 1051 AIRWAY BOULEVARD LIVERMORE, CALIFORNIA

> Grayland No. 022-280 August 10, 2001

Prepared For:

Mr. Michael Walton Walton Engineering, Inc. P.O. Box 1025 West Sacramento, California 95691

Prepared By:

GRAYLAND ENVIRONMENTAL 2731 Quail Street Davis, California 95616-5723

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GRAYLAND ENVIRONMENTAL CONSULTING SERVICES

August 10, 2001 022-280

Mr. Michael Walton Walton Engineering, Inc. P.O. Box 1025 West Sacramento, California 95691

Subject:

Fuel Dispenser and Line Removal Report

Bernard's, 1051 Airway Boulevard, Livermore, California 94550

Dear Mr. Walton:

At your request, a registered geologist from Grayland Environmental (*Grayland*) arrived at Bernard's (site) located at 1051 Airway Boulevard in Livermore, California, on June 19, 2001, to assist with the removal of six fuel dispensers and the associated underground product lines (Figure 1). The objective of our work was to collect soil samples from beneath each of the former fuel dispensers and from selected locations beneath the former underground piping following their removal and to collect a soil sample composite from each of the two soil stockpiles generated during the dispenser and line removal work. The soil sample collection work was supervised by a Hazardous Materials Coordinator from the Livermore - Pleasanton Fire Department.

SITE DESCRIPTION

The site is located along the east side of Airway Boulevard, approximately 600 feet north of California Interstate 580. At the time of our soil investigation, the site was occupied by Bernard's, a retail fueling station and convenience market. The site contained four underground gasoline and diesel fuel storage tanks, which were partially uncovered to expose the pipelines at the time of our investigative work (Figure 2). The site building was used for retail sales and administrative offices and included a lube bay and car wash. The surface of the site surrounding the former fuel dispensers was covered mainly with concrete and with asphaltic-concrete.

FUEL DISPENSER AND LINE REMOVAL

Six fuel dispensers were dismantled and the associated underground product lines were unearthed and removed by Walton Engineering, Inc., of West Sacramento, California. Soil material exposed by the trenching consisted of medium brown to grey clayey silt. Some water was present in the trenches as a result of a water line that was broken during the demolition work.

Mr. Michael Walton Walton Engineering, Inc. August 10, 2001

SOIL SAMPLE COLLECTION WORK

Following the removal of the fuel dispensers and underground product lines, a soil sample was collected from beneath each former fuel dispenser and one soil sample was collected from beneath the former underground product lines for every approximate 20 lineal feet of line. Immediately prior to sample collection, approximately 12 inches of loose soil and/or trench backfill material were removed from beneath each former dispenser and line sample location to expose native soil (at depths of approximately 1 to 5 feet below ground surface). Each soil sample was collected by driving a clean stainless steel sample sleeve through the freshly exposed surface of the native soil using a hand-operated percussion core sampler. Immediately after collecting a soil sample, the sample sleeve was sealed with plastic end caps, labeled with the project and sample identification numbers and date, and placed in iced storage. The soil samples were listed on a chain of custody record and transported directly to the environmental laboratory for chemical testing (Appendix A).

Field evidence for soil contamination (i.e., stained soil, odor of fuel hydrocarbons, etc.) was observed mainly beneath the southwestern most former fuel dispenser (FD5), the two northern most former fuel dispensers (FD1 and FD2) and beneath the former underground product line couplings that supplied the northern most and middle rows of former fuel dispensers (sample locations PL5 and PL7 on Figure 2).

Soil generated during the fuel system renovation work was stockpiled in the open space to the east of the site building and parking area (Figure 3). Soil material removed from the area of excavation that appeared to be impacted with fuel hydrocarbons was stockpiled separately from the apparently clean overburden material (SP1 on Figure 3). The two soil stockpiles were characterized separately for disposition. Four individual soil samples were collected from each soil stockpile at random locations (a through d on Figure 3). Each sample was collected by first removing approximately 1 foot of soil from the surface of the pile and then driving a clean stainless steel sleeve into the freshly exposed surface using the percussion core sampler. Each set of four discreet stockpile soil samples were composited by the laboratory into one soil sample for chemical analysis.

LABORATORY ANALYSES AND RESULTS

The soil samples collected from beneath the former fuel dispensers and product lines at the site were analyzed by Kiff Analytical, LLC, of Davis, California, for total petroleum hydrocarbons in the range of gasoline (TPHg); the associated volatile organic compounds benzene, toluene, ethylbenzene and total xylenes (BTEX); and the fuel oxygenate methyl t-butyl ether (MtBE) using Environmental Protection Agency (EPA) method 8260B with purge and trap EPA method 5030. Additionally, the soil samples collected from beneath the two northern most former fuel dispensers (FD1 and FD2) and the associated underground diesel fuel product line (PL1, PL4 and PL5) were analyzed for total petroleum hydrocarbons in the range of diesel fuel (TPHd) using EPA method 8015 modified. The two soil sample composites collected from the soil stockpiles were analyzed for the aforementioned hazardous substances and for total lead using EPA method 6010. Lead analyses were performed by California Laboratory Services, Inc., (CLS) of Rancho Cordova, California.

Mr. Michael Walton Walton Engineering, Inc. August 10, 2001

Laboratory results of the soil sample analyses indicated that elevated concentrations of TPHg, TPHd and BTEX compounds were present in the soil samples collected from the site (Table 1). The fuel oxygenate MtBE was detected in all of the soil samples except for one (S-5-PL5), which was reported at a significantly higher minimum reporting limit (0.25 parts per million) than the standard reporting limit of 0.005 parts per million (Table 1). The highest concentrations of TPHd were found in soil samples collected beneath the northeastern most former fuel dispenser (FD2) and the associated product line coupling (PL5) at the site (Table 1). The highest concentrations of TPHg were found in soil samples collected beneath the southwestern most former fuel dispenser (FD5) and the product line coupling (PL7) that supplied the middle row of former fuel dispensers at the site (Table 1). The laboratory report for these soil sample analyses is presented in Appendix A of this report.

TABLE 1
LABORATORY RESULTS OF SOIL SAMPLE ANALYSES
FUEL DISPENSER AND PRODUCT LINE REMOVAL
1051 AIRWAY BOULEVARD, LIVERMORE, CALIFORNIA

| Sample Number | TPHg | В | Ť | E | X | TPHd | MtBE | Total Lead |
|------------------|-------|---------|---------|---------|---------|-------|--------|---------------|
| Soil Samples | | | | | | | | |
| S-3-FD1 | 760 | 0.13 | < 0.10 | 3.9 | 28 | 830 | 5.6 | na |
| S-4-FD2 | 890 | < 0.25 | < 0.25 | 2.9 | 4.0 | 6,800 | 1.8 | na |
| S-3-FD3 | 28 | < 0.050 | 0.36 | 0.24 | 2.7 | na | 0.97 | na |
| S-3-FD4 | 3.5 | 0.0061 | < 0.005 | 0.032 | 0.11 | na | 0.81 | na |
| S-1-FD5 | 2,800 | 0.59 | 29 | 32 | 190 | na | 3.6 | na |
| S-2-FD6 | 29 | < 0.010 | < 0.010 | 0.11 | 0.021 | па | 0.066 | na |
| S-4-PL1 | <5.0 | < 0.050 | < 0.050 | <0.050 | < 0.10 | 10 | 7.5 | na |
| S-3-PL2 | 2.9 | < 0.050 | 0.052 | 0.036 | 0.40 | na | 2.7 | na |
| S-3-PL3 | <1.0 | < 0.005 | 0.016 | 0.014 | 0.10 | na | 0.092 | na |
| S-5-PL4 | <1.0 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | <1.0 | 0.0076 | na |
| S-5-PL5 | 270 | < 0.25 | 0.31 | 0.80 | 4.1 | 9,500 | < 0.25 | na |
| S-4-PL6 | <1.0 | < 0.005 | < 0.005 | < 0.005 | 0.024 | na | 0.14 | na |
| S-4-PL7 | 1,100 | < 0.10 | < 0.10 | 7.8 | 44 | na | 1.4 | na |
| S-3-PL8 | <1.0 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | na | 0.017 | na |
| S-3-PL9 | <1.0 | < 0.005 | < 0.005 | < 0.005 | 0.0083 | na | 0.39 | na |
| SP1a-d | 70 | <0.005 | < 0.005 | 0.0061 | 1.0 | 320 | 1.4 | <2.5 |
| SP2a-d | <1.0 | < 0.005 | < 0.005 | < 0.005 | 0.011 | na | 0.068 | <2.5 |

Laboratory results of soil samples are reported in milligrams/kilogram (parts per million)

TPHg = Total Petroleum Hydrocarbons in the range of gasoline

B = Benzene T = Toluene E = Ethylbenzene X = Total Xylenes

TPHd = Total Petroleum Hydrocarbons in the range of diesel fuel

MtBE = Methyl t-Butyl Ether

< = Less than the laboratory method reporting limits

na = not analyzed

Mr. Michael Walton Walton Engineering, Inc. August 10, 2001

Soil sample composite SP1a-d contained elevated concentrations of TPHg, TPHd, ethylbenzene, total xylenes and the fuel oxygenate MtBE, while soil sample composite SP2a-d contained only slightly elevated concentrations of total xylenes and the fuel oxygenate MtBE. Neither of the soil sample composites collected at the site contained total lead at a concentration greater than 2.5 parts per million (Table 1).

CONCLUSION AND RECOMMENDATIONS

Based on field evidence and laboratory analytical data of soil samples collected from beneath the former fuel dispensers and underground product lines at the site, it appears that subsurface soil has been impacted with fuel hydrocarbons in the ranges of gasoline and diesel fuel as a result of the operation of the former underground fueling system at the site. *Grayland* recommends, therefore, that the spatial extent of the subsurface soil contamination at the site be investigated and that groundwater beneath the site be evaluated for potential hydrocarbon contamination. *Grayland* further recommends that procedures to comply with regulatory requirements be presented to Contra Costa County Environmental Health in a Site Contamination Work Plan prior to initiating the subsurface environmental investigative work at the site.

If you have any questions regarding this fuel dispenser and line removal report, please do not hesitate to contact our office. Thank you for the opportunity to provide our environmental consulting services.

Sincerely,

Grayland Environmental

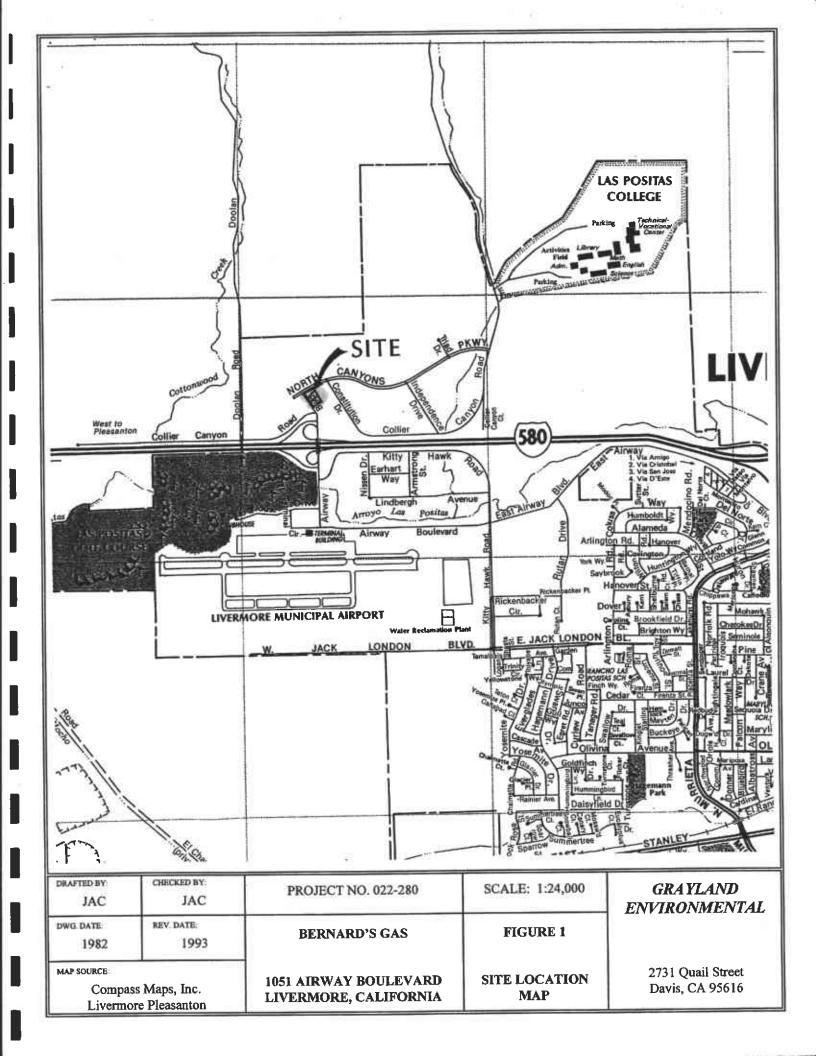
Jeffrey A. Clayton, R.G., REA

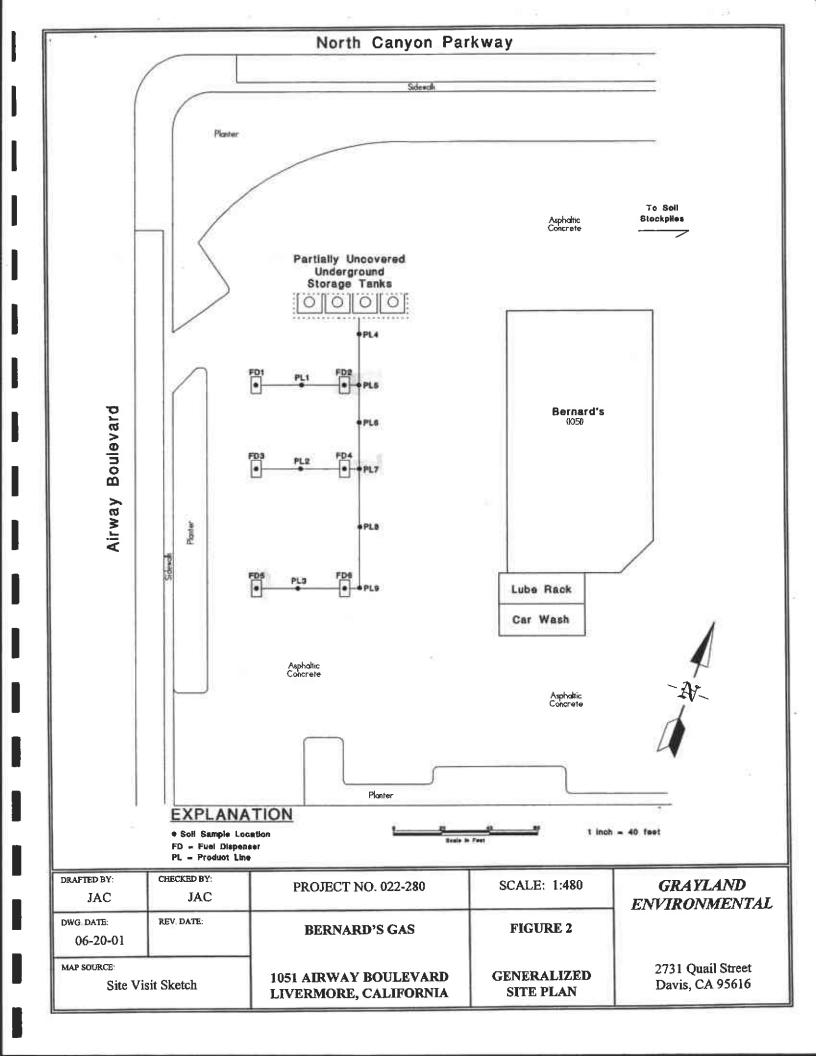
Principal Geologist

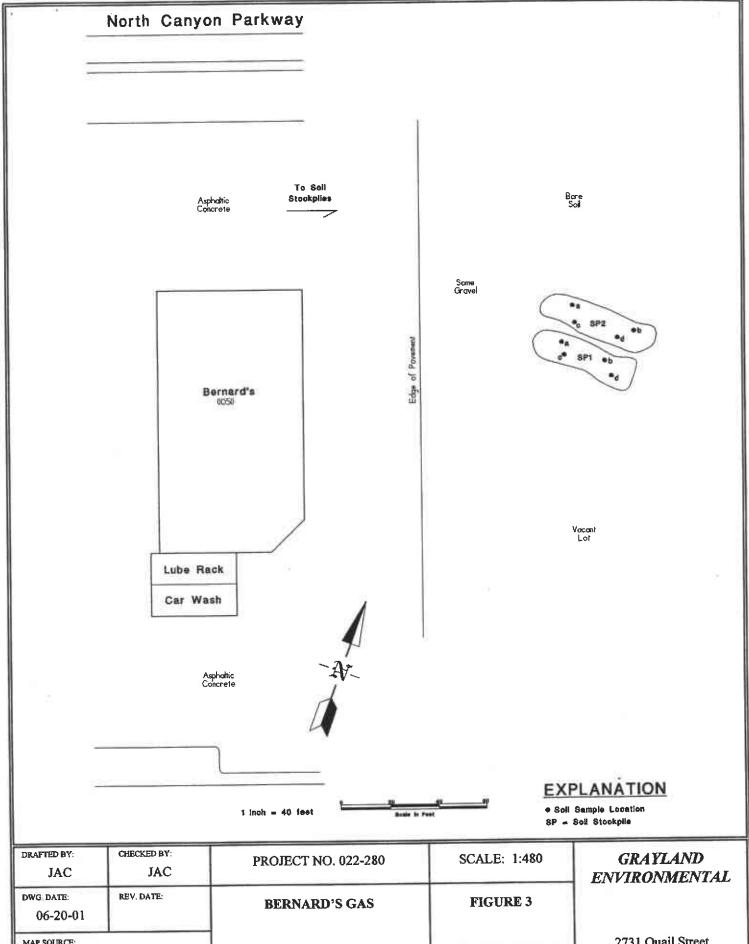
JAC:jbc

cc: Ms. Danielle Stefani (Livermore - Pleasanton Fire Department)

No. 5597 Exp. 8/31/0







| DRAFTED BY: JAC | CHECKED BY: JAC | PROJECT NO. 022-280 | SCALE: 1:480 | GRAYLAND ENVIRONMENTAL |
|------------------------|--------------------|--|--------------------------------|--------------------------------------|
| DWG DATE: 06-20-01 | REV. DATE: | BERNARD'S GAS | FIGURE 3 | |
| map source: Site Vi | sit Sketch | 1051 AIRWAY BOULEVARD LIVERMORE, CALIFORNIA | SOIL STOCKPILE LOCATION MAP | 2731 Quail Street Davis, CA 95616 |

APPENDIX A LABORATORY REPORT



Date: 7/10/2001

Jeff Clayton Grayland Environmental 2731 Quail Street Davis, CA 95616

Subject: 17 Soil Samples

Project Name:

Project Number: 022-280

Dear Mr. Clayton,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,



720 Olive Drive, Suite D Davis, CA 95616

Lab: 530.297.4800 Fax: 530.297.4803 Lab No. 2088 Page / of 2

| Project Manager: | | 11 | Pho | ne No. | : | | | | _ | ha | in. | of. | -Cı | ıet | od | lv I | 26 | CO | rd | ar | ٠ | Δn | alv | ei. | e l | <u></u> | que | et |
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| Project Name/Location: | | | San | paler S | ignatu | <i>P</i> | X | | | 9021B/M | | (9 | 8260B) | BTEX (8 | BTEX (8 | | | 1,2 EDB - 8260B | | A 8260€ | TOTAL (X) | | | (| (¥) | 9 a.m. of the hext bus. 5 p.m. of the next bus | of the 2nd bus. | of the 3rd bus. day of the 5th bus. day |
| | Sampl | ing | | ntain e/Amo | | 4 | Method Preserved | Matrix | | MTBE (| M 8015) | ii (M801 | MTBE (| PH Gas | PH Gas, | 260B) | (8260B | •8] | List) | ons (El | 1 | | ľ | | | | 5 p.m.o | , 5 p.m. c 5 p.m. c |
| Sample Designation | Date | Time | 40 ml VOA | | | НĊI | HNO ₃ ICE NONE | WATER/SOIL | BTEX (8021B) | BTEX/TPH Gas/MTBE (8021B/M8015) | TPH as Diesel (M8015) | TPH as Motor Oil (M8015) | TPH Gas/BTEX/MTBE (8260B) | 5 Oxygenates/TPH Gas/BTEX (8260B) | 7 Oxygenates/TPH Gas/BTEX (8260B) | 5 Oxygenates (8260B) | 7 Oxygenates (8260B) | Lead Scav. (1,2 DCA & | EPA 8260B (Full List) | Volatile Halocarbons (EPA 82608) | Lead (7421/239.2) | | | | 12 hr/24 hr/48 hr/72 hr/1 wk | 12 hr = Results by | 48 hr = Results by | 72 hr = Results by 5 p.m. of the 3rd bus. 1 wk = Results by 5 p.m. of the 5th bus. |
| 5-3-FD1 | 6-19-01 | | | / | | | X | 5 | | | X | | X | | | | | | | | | | | | 1 | | -01 | |
| S-4-FD2 | | | | / | _ | | X | <u> S</u> _ | | | X | | X | | _ | | | | | | | | | _ | 4 | | -0 | |
| S-3-FD3 | | | | / | | | X | 5 | | | ļ | | X | | | _ | | | | | | | | | 4 | | -03 | |
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| S-1-F05 | | | 1 | <u> </u> | | | X | \$ | <u> </u> | | | | X | | | | _ | | | | | | | | 7 | | 05 | |
| S-2-FD6 | | | | / | | | | 5 | _ | | | <u></u> | <u>X</u> | | | | | | | | | | _ | 4 | 4 | | 06 | |
| S-4-PL1 | - | | 1 | | | | X | 5 | L | | X | _ | X | | | | | <u> </u> | | ļ | | <u> </u> | _ | _ | 4 | | ٥7 | |
| 5-3-PL2 | | | | / | | | X | 5 | ļ | ļ | | | X | | | | | | | _ | | | _ | _ | 4 | - | -08 | |
| 5-3-PL3 | | | | / | | | X | > | <u> </u> | | | <u></u> | ĮX, | | | | | | | | | | | _ | Д | | -09 | |
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720 Olive Drive, Suite D Davis, CA 95616

Lab: 530.297.4800 Fax: 530 297 4803

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| Project Name/Location: | | **** | | | Signatu | ге/ () | 24 | , | _ | | 21B/M8(| | | 608) | TEX (82 | TEX (82 | | | 2 EDB - | | 8260B) | TOTAL (X) W.E.T. (X) | | | | ₹ | e next bu | e and bu | he 3rd bu e 5th tu |
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| Sample Designation | Date | Time | 40 ml VOA SLEEVE | | | HCI | HNO ₃ | NONE | WATER/SOIL | BTEX (8021B) | BTEX/TPH Gas/MTBE (8021B/M8015) | TPH as Diesel (M8015) | TPH as Motor Oil (M8015) | TPH Gas/BTEX/MTBE (8260B) | 5 Oxygenates/TPH Gas/BTEX (8260B) | 7 Oxygenates/TPH Gas/BTEX (8260B) | 5 Oxygenates (8260B) | 7 Oxygenates (8260B) | Lead Scav. (1,2 DCA & 1,2 EDB - 8260B) | EPA 8260B (Full List) | Volatile Halocarbons (EPA 8260B) | Lead (7421/239.2) | | | | 12 hr/24 hr/48 hr/72 hr/ (wk | 12 hr = Results by 9 a.m. of the Next bus. | 48 hr = Results by 5 p.m. of the 2nd bus. day | 72 hr = Results by 5 p.m. of the 3rd bus. day 1 wk = Results by 5 p.m. of the 5th bus. day |
| S-5-PL5 | 6-19-01 | | 1 | | | | X | | 5 | | | X | | X | | | | | | | | | | | | / | | -[] | |
| 5-4-PL6 | | | 1 | | | | X | | 5 | | | | | X | | | | | | | | | | | | | | -12 | |
| S-4 PL7 | | | 1 | | _ | | X | | \$ | | | | | X | | | | | | | | | | | | / | | -13 | |
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Date: 7/10/2001

Project Name:

Project Number: 022-280

Sample: S-3-FD1

Matrix : Soil

Lab Number: 20888-01

| Sample Date :6/19/2001 | | Method | | 1 | |
|---------------------------------------|-------------------|--------------------|------------|--------------------|------------------|
| Parameter | Measured Value | Reporting Limit | Units | Analysis Method | Date Analyzed |
| Benzene | 0.13 | 0.10 | mg/Kg | EPA 8260B | 6/24/2001 |
| Toluene | < 0.10 | 0.10 | mg/Kg | EPA 8260B | 6/24/2001 |
| Ethylbenzene | 3.9 | 0.10 | mg/Kg | EPA 8260B | 6/24/2001 |
| Total Xylenes | 28 | 0.25 | mg/Kg | EPA 8260B | 6/24/2001 |
| Methyl-t-butyl ether (MTBE) | 5.6 | 0.10 | mg/Kg | EPA 8260B | 6/24/2001 |
| TPH as Gasoline | 760 | 50 | mg/Kg | EPA 8260B | 6/27/2001 |
| Toluene - d8 (Surr) | 98.5 | | % Recovery | EPA 8260B | 6/24/2001 |
| 4-Bromofluorobenzene (Surr) | 100 | | % Recovery | EPA 8260B | 6/24/2001 |
| TPH as Diesel | 830 | 1.0 | mg/Kg | M EPA 8015 | 7/3/2001 |
| 1-Chlorooctadecane (Diesel Surrogate) | 173 | | % Recovery | M EPA 8015 | 7/3/2001 |

Approved By: Joel Kiff



Date: 7/10/2001

Project Name:

Project Number: 022-280

Sample: S-4-FD2

Matrix : Soil

Lab Number : 20888-02

Sample Date :6/19/2001

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---------------------------------------|-------------------|------------------------------|------------|--------------------|------------------|
| Benzene | < 0.25 | 0.25 | mg/Kg | EPA 8260B | 6/27/2001 |
| Toluene | < 0.25 | 0.25 | mg/Kg | EPA 8260B | 6/27/2001 |
| Ethylbenzene | 2.9 | 0.25 | mg/Kg | EPA 8260B | 6/27/2001 |
| Total Xylenes | 4.0 | 0.50 | mg/Kg | EPA 8260B | 6/27/2001 |
| Methyl-t-butyl ether (MTBE) | 1.8 | 0.25 | mg/Kg | EPA 8260B | 6/27/2001 |
| TPH as Gasoline | 890 | 20 | mg/Kg | EPA 8260B | 6/27/2001 |
| Toluene - d8 (Surr) | 99.6 | | % Recovery | EPA 8260B | 6/27/2001 |
| 4-Bromofluorobenzene (Surr) | 98.7 | | % Recovery | EPA 8260B | 6/27/2001 |
| TPH as Diesel | 6800 | 20 | mg/Kg | M EPA 8015 | 7/5/2001 |
| 1-Chlorooctadecane (Diesel Surrogate) | Diluted Out | | % Recovery | M EPA 8015 | 7/5/2001 |

Approved By: Joel Kiff



Date: 7/10/2001

Project Name:

Project Number: 022-280

Sample: S-3-FD3

Matrix : Soil

Lab Number: 20888-03

Sample Date :6/19/2001

| Sample Date :6/19/2001 | | Method | | | |
|-----------------------------|-------------------|--------------------|------------|--------------------|------------------|
| Parameter | Measured Value | Reporting Limit | Units | Analysis Method | Date Analyzed |
| Benzene | < 0.050 | 0.050 | mg/Kg | EPA 8260B | 7/3/2001 |
| Toluene | 0.36 | 0.050 | mg/Kg | EPA 8260B | 7/3/2001 |
| Ethylbenzene | 0.24 | 0.050 | mg/Kg | EPA 8260B | 7/3/2001 |
| Total Xylenes | 2.7 | 0.10 | mg/Kg | EPA 8260B | 7/3/2001 |
| Methyl-t-butyl ether (MTBE) | 0.97 | 0.050 | mg/Kg | EPA 8260B | 7/3/2001 |
| TPH as Gasoline | 28 | 5.0 | mg/Kg | EPA 8260B | 7/3/2001 |
| Toluene - d8 (Surr) | 96.0 | | % Recovery | EPA 8260B | 7/3/2001 |
| 4-Bromofluorobenzene (Surr) | 106 | | % Recovery | EPA 8260B | 7/3/2001 |

Approved By: Joel Kiff



Date: 7/10/2001

Project Name:

Project Number: 022-280

Sample: S-3-FD4

Matrix : Soil

Lab Number: 20888-04

Sample Date :6/19/2001

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-----------------------------|-------------------|------------------------------|------------|--------------------|------------------|
| Benzene | 0.0061 | 0.0050 | mg/Kg | EPA 8260B | 7/2/2001 |
| Toluene | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 7/2/2001 |
| Ethylbenzene | 0.032 | 0.0050 | mg/Kg | EPA 8260B | 7/2/2001 |
| Total Xylenes | 0.11 | 0.010 | mg/Kg | EPA 8260B | 7/2/2001 |
| Methyl-t-butyl ether (MTBE) | 0.81 | 0.0050 | mg/Kg | EPA 8260B | 7/2/2001 |
| TPH as Gasoline | 3.5 | 1.0 | mg/Kg | EPA 8260B | 7/2/2001 |
| Toluene - d8 (Surr) | 100 | | % Recovery | EPA 8260B | 7/2/2001 |
| 4-Bromofluorobenzene (Surr) | 99.6 | | % Recovery | EPA 8260B | 7/2/2001 |

Approved By: Joel Kiff



Date: 7/10/2001

Project Name:

Project Number: 022-280

Sample: S-1-FD5

Matrix : Soil

Lab Number : 20888-05

Sample Date :6/19/2001

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-----------------------------|-------------------|------------------------------|------------|--------------------|------------------|
| Benzene | 0.59 | 0.25 | mg/Kg | EPA 8260B | 6/28/2001 |
| Toluene | 29 | 0.25 | mg/Kg | EPA 8260B | 6/28/2001 |
| Ethylbenzene | 32 | 0.25 | mg/Kg | EPA 8260B | 6/28/2001 |
| Total Xylenes | 190 | 0.50 | mg/Kg | EPA 8260B | 6/28/2001 |
| Methyl-t-butyl ether (MTBE) | 3.6 | 0.25 | mg/Kg | EPA 8260B | 6/28/2001 |
| TPH as Gasoline | 2800 | 20 | mg/Kg | EPA 8260B | 6/28/2001 |
| Toluene - d8 (Surr) | 95.0 | | % Recovery | EPA 8260B | 6/28/2001 |
| 4-Bromofluorobenzene (Surr) | 104 | | % Recovery | EPA 8260B | 6/28/2001 |

Approved By: Joel Kiff



Date: 7/10/2001

Project Name:

Project Number: 022-280

Sample: S-2-FD6

Matrix: Soil

Lab Number : 20888-06

Sample Date :6/19/2001

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-----------------------------|-------------------|------------------------------|------------|--------------------|------------------|
| Benzene | < 0.010 | 0.010 | mg/Kg | EPA 8260B | 6/30/2001 |
| Toluene | < 0.010 | 0.010 | mg/Kg | EPA 8260B | 6/30/2001 |
| Ethylbenzene | 0.11 | 0.010 | mg/Kg | EPA 8260B | 6/30/2001 |
| Total Xylenes | 0.021 | 0.010 | mg/Kg | EPA 8260B | 6/30/2001 |
| Methyl-t-butyl ether (MTBE) | 0.066 | 0.010 | mg/Kg | EPA 8260B | 6/30/2001 |
| TPH as Gasoline | 29 | 1.0 | mg/Kg | EPA 8260B | 6/30/2001 |
| Toluene - d8 (Surr) | 100 | | % Recovery | EPA 8260B | 6/30/2001 |
| 4-Bromofluorobenzene (Surr) | 100 | | % Recovery | EPA 8260B | 6/30/2001 |

Approved By: Joel Kiff



Date: 7/10/2001

Project Name:

Project Number: 022-280

Sample: S-4-PL1

Matrix : Soil

Lab Number: 20888-07

| Sample | Date | :6/1 | 19/200 | 1 |
|--------|------|------|--------|---|
|--------|------|------|--------|---|

| Sample Date :6/19/2001 | | Mathad | | | |
|---------------------------------------|-------------------|------------------------------|------------|--------------------|------------------|
| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
| Benzene | < 0.050 | 0.050 | mg/Kg | EPA 8260B | 6/27/2001 |
| Toluene | < 0.050 | 0.050 | mg/Kg | EPA 8260B | 6/27/2001 |
| Ethylbenzene | < 0.050 | 0.050 | mg/Kg | EPA 8260B | 6/27/2001 |
| Total Xylenes | < 0.10 | 0.10 | mg/Kg | EPA 8260B | 6/27/2001 |
| Methyl-t-butyl ether (MTBE) | 7.5 | 0.050 | mg/Kg | EPA 8260B | 6/27/2001 |
| TPH as Gasoline | < 5.0 | 5.0 | mg/Kg | EPA 8260B | 6/27/2001 |
| Toluene - d8 (Surr) | 99.4 | | % Recovery | EPA 8260B | 6/27/2001 |
| 4-Bromofluorobenzene (Surr) | 98.4 | | % Recovery | EPA 8260B | 6/27/2001 |
| TPH as Diesel | 10 | 1.0 | mg/Kg | M EPA 8015 | 7/5/2001 |
| 1-Chlorooctadecane (Diesel Surrogate) | 96.9 | | % Recovery | M EPA 8015 | 7/5/2001 |

Approved By: Joel Kiff



Date: 7/10/2001

Project Name:

Project Number: 022-280

Sample: S-3-PL2

Matrix : Soil

Lab Number: 20888-08

| Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-------------------|--|---|---|---|
| < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 6/29/2001 |
| 0.052 | 0.0050 | mg/Kg | EPA 8260B | 6/29/2001 |
| 0.036 | 0.0050 | mg/Kg | EPA 8260B | 6/29/2001 |
| 0.40 | 0.010 | mg/Kg | EPA 8260B | 6/29/2001 |
| 2.7 | 0.0050 | mg/Kg | EPA 8260B | 6/29/2001 |
| 2.9 | 1.0 | mg/Kg | EPA 8260B | 6/29/2001 |
| 96.6 | | % Recovery | EPA 8260B | 6/29/2001 |
| 102 | | % Recovery | EPA 8260B | 6/29/2001 |
| | Value < 0.0050 0.052 0.036 0.40 2.7 2.9 96.6 | Measured Value Reporting Limit < 0.0050 | Measured Value Reporting Limit Units < 0.0050 | Measured Value Reporting Limit Units Analysis Method < 0.0050 |

Approved By: Joel Kiff



Date: 7/10/2001

Project Name:

Project Number: 022-280

Sample: S-3-PL3

Matrix : Soil

Lab Number: 20888-09

Sample Date :6/19/2001

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-----------------------------|-------------------|------------------------------|------------|--------------------|------------------|
| Benzene | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 6/28/2001 |
| Toluene | 0.016 | 0.0050 | mg/Kg | EPA 8260B | 6/28/2001 |
| Ethylbenzene | 0.014 | 0.0050 | mg/Kg | EPA 8260B | 6/28/2001 |
| Total Xylenes | 0.10 | 0.0050 | mg/Kg | EPA 8260B | 6/28/2001 |
| Methyl-t-butyl ether (MTBE) | 0.092 | 0.0050 | mg/Kg | EPA 8260B | 6/28/2001 |
| TPH as Gasoline | < 1.0 | 1.0 | mg/Kg | EPA 8260B | 6/28/2001 |
| Toluene - d8 (Surr) | 99.7 | | % Recovery | EPA 8260B | 6/28/2001 |
| 4-Bromofluorobenzene (Surr) | 99.0 | | % Recovery | EPA 8260B | 6/28/2001 |

Approved By: Joel Kiff



Date: 7/10/2001

Project Name:

Project Number: 022-280

Sample: S-5-PL4

Matrix : Soil

Lab Number: 20888-10

| Sample Date :6 | 6/19/2001 |
|----------------|-----------|
|----------------|-----------|

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---------------------------------------|-------------------|------------------------------|------------|--------------------|------------------|
| Benzene | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 6/24/2001 |
| Toluene | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 6/24/2001 |
| Ethylbenzene | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 6/24/2001 |
| Total Xylenes | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 6/24/2001 |
| Methyl-t-butyl ether (MTBE) | 0.0076 | 0.0050 | mg/Kg | EPA 8260B | 6/24/2001 |
| TPH as Gasoline | < 1.0 | 1.0 | mg/Kg | EPA 8260B | 6/24/2001 |
| Toluene - d8 (Surr) | 100 | | % Recovery | EPA 8260B | 6/24/2001 |
| 4-Bromofluorobenzene (Surr) | 121 | | % Recovery | EPA 8260B | 6/24/2001 |
| TPH as Diesel | < 1.0 | 1.0 | mg/Kg | M EPA 8015 | 7/3/2001 |
| 1-Chlorooctadecane (Diesel Surrogate) | 108 | | % Recovery | M EPA 8015 | 7/3/2001 |

Approved By: Joel Kiff



Date: 7/10/2001

Project Name:

Project Number: 022-280

Sample: S-5-PL5

Matrix : Soil

Lab Number : 20888-11

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---------------------------------------|-------------------|------------------------------|------------|--------------------|------------------|
| Benzene | < 0.25 | 0.25 | mg/Kg | EPA 8260B | 6/24/2001 |
| Toluene | 0.31 | 0.25 | mg/Kg | EPA 8260B | 6/24/2001 |
| Ethylbenzene | 0.80 | 0.25 | mg/Kg | EPA 8260B | 6/24/2001 |
| Total Xylenes | 4.1 | 0.50 | mg/Kg | EPA 8260B | 6/24/2001 |
| Methyl-t-butyl ether (MTBE) | < 0.25 | 0.25 | mg/Kg | EPA 8260B | 6/24/2001 |
| TPH as Gasoline | 270 | 20 | mg/Kg | EPA 8260B | 6/24/2001 |
| Toluene - d8 (Surr) | 99.6 | | % Recovery | EPA 8260B | 6/24/2001 |
| 4-Bromofluorobenzene (Surr) | 99.3 | | % Recovery | EPA 8260B | 6/24/2001 |
| TPH as Diesel | 9500 | 20 | mg/Kg | M EPA 8015 | 7/5/2001 |
| 1-Chlorooctadecane (Diesel Surrogate) | Diluted Out | | % Recovery | M EPA 8015 | 7/5/2001 |

Approved By: Joel Kiff



Date: 7/10/2001

Project Name:

Project Number: 022-280

Sample: S-4-PL6

Matrix : Soil

Lab Number: 20888-12

| Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-------------------|---|---|---|---|
| < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 6/27/2001 |
| < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 6/27/2001 |
| < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 6/27/2001 |
| 0.024 | 0.0050 | mg/Kg | EPA 8260B | 6/27/2001 |
| 0.14 | 0.0050 | mg/Kg | EPA 8260B | 6/27/2001 |
| < 1.0 | 1.0 | mg/Kg | EPA 8260B | 6/27/2001 |
| 99.8 | | % Recovery | EPA 8260B | 6/27/2001 |
| 98.8 | | % Recovery | EPA 8260B | 6/27/2001 |
| | Value < 0.0050 < 0.0050 < 0.0050 0.024 0.14 < 1.0 99.8 | Measured Value Reporting Limit < 0.0050 | Measured Value Reporting Limit Units < 0.0050 | Measured Value Reporting Limit Units Analysis Method < 0.0050 |

Approved By: Joel Kiff



Date: 7/10/2001

Project Name:

Project Number: 022-280

Sample: S-4-PL7

Matrix : Soil

Lab Number: 20888-13

Sample Date :6/19/2001

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-----------------------------|-------------------|------------------------------|------------|--------------------|------------------|
| Benzene | < 0.10 | 0.10 | mg/Kg | EPA 8260B | 6/28/2001 |
| Toluene | < 0.10 | 0.10 | mg/Kg | EPA 8260B | 6/28/2001 |
| Ethylbenzene | 7.8 | 0.10 | mg/Kg | EPA 8260B | 6/28/2001 |
| Total Xylenes | 44 | 0.25 | mg/Kg | EPA 8260B | 6/28/2001 |
| Methyl-t-butyl ether (MTBE) | 1.4 | 0.50 | mg/Kg | EPA 8260B | 7/3/2001 |
| TPH as Gasoline | 1100 | 50 | mg/Kg | EPA 8260B | 7/3/2001 |
| Toluene - d8 (Surr) | 97.0 | | % Recovery | EPA 8260B | 6/28/2001 |
| 4-Bromofluorobenzene (Surr) | 108 | | % Recovery | EPA 8260B | 6/28/2001 |

Approved By: Joel Kiff



Date: 7/10/2001

Project Name:

Project Number: 022-280

Sample: S-3-PL8

Matrix : Soil

Lab Number: 20888-14

Sample Date :6/19/2001

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-----------------------------|-------------------|------------------------------|------------|--------------------|------------------|
| Benzene | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 6/27/2001 |
| Toluene | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 6/27/2001 |
| Ethylbenzene | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 6/27/2001 |
| Total Xylenes | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 6/27/2001 |
| Methyl-t-butyl ether (MTBE) | 0.017 | 0.0050 | mg/Kg | EPA 8260B | 6/27/2001 |
| TPH as Gasoline | < 1.0 | 1.0 | mg/Kg | EPA 8260B | 6/27/2001 |
| Toluene - d8 (Surr) | 102 | | % Recovery | EPA 8260B | 6/27/2001 |
| 4-Bromofluorobenzene (Surr) | 107 | | % Recovery | EPA 8260B | 6/27/2001 |

Approved By: Joel Kiff



Date: 7/10/2001

Project Name:

Project Number: 022-280

Sample: S-3-PL9

Matrix : Soil

Lab Number: 20888-15

| Sample | Date | :6/1 | 9/2001 | |
|--------|------|------|--------|--|
|--------|------|------|--------|--|

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-----------------------------|-------------------|------------------------------|------------|--------------------|------------------|
| Benzene | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 6/25/2001 |
| Toluene | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 6/25/2001 |
| Ethylbenzene | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 6/25/2001 |
| Total Xylenes | 0.0083 | 0.0050 | mg/Kg | EPA 8260B | 6/25/2001 |
| Methyl-t-butyl ether (MTBE) | 0.39 | 0.0050 | mg/Kg | EPA 8260B | 6/25/2001 |
| TPH as Gasoline | < 1.0 | 1.0 | mg/Kg | EPA 8260B | 6/25/2001 |
| Toluene - d8 (Surr) | 100 | | % Recovery | EPA 8260B | 6/25/2001 |
| 4-Bromofluorobenzene (Surr) | 119 | | % Recovery | EPA 8260B | 6/25/2001 |

Approved By: Joel Kiff



Date: 7/10/2001

Project Name:

Project Number: 022-280

Sample: SP1a-d (comp)

Matrix : Soil

Lab Number: 20888-16

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---------------------------------------|-------------------|------------------------------|------------|--------------------|------------------|
| | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 6/27/2001 |
| Benzene | | | | EPA 8260B | 6/27/2001 |
| Toluene | < 0.0050 | 0.0050 | mg/Kg | | |
| Ethylbenzene | 0.0061 | 0.0050 | mg/Kg | EPA 8260B | 6/27/2001 |
| Total Xylenes | 1.0 | 0.010 | mg/Kg | EPA 8260B | 6/27/2001 |
| Methyl-t-butyl ether (MTBE) | 1.4 | 0.0050 | mg/Kg | EPA 8260B | 6/27/2001 |
| TPH as Gasoline | 70 | 10 | mg/Kg | EPA 8260B | 6/24/2001 |
| Toluene - d8 (Surr) | 94.4 | | % Recovery | EPA 8260B | 6/27/2001 |
| 4-Bromofluorobenzene (Surr) | 103 | | % Recovery | EPA 8260B | 6/27/2001 |
| TPH as Diesel | 320 | 1.0 | mg/Kg | M EPA 8015 | 7/3/2001 |
| 1-Chlorooctadecane (Diesel Surrogate) | Interference |) | % Recovery | M EPA 8015 | 7/3/2001 |

Approved By: Joel Kiff



Date: 7/10/2001

Project Name:

Project Number: 022-280

Sample: SP2a-d (comp)

Matrix : Soil

Lab Number: 20888-17

Sample Date :6/19/2001

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-----------------------------|-------------------|------------------------------|------------|--------------------|------------------|
| Benzene | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 6/25/2001 |
| Toluene | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 6/25/2001 |
| Ethylbenzene | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 6/25/2001 |
| Total Xylenes | 0.011 | 0.0050 | mg/Kg | EPA 8260B | 6/25/2001 |
| Methyl-t-butyl ether (MTBE) | 0.068 | 0.0050 | mg/Kg | EPA 8260B | 6/25/2001 |
| TPH as Gasoline | < 1.0 | 1.0 | mg/Kg | EPA 8260B | 6/25/2001 |
| Toluene - d8 (Surr) | 101 | | % Recovery | EPA 8260B | 6/25/2001 |
| 4-Bromofluorobenzene (Surr) | 93.7 | | % Recovery | EPA 8260B | 6/25/2001 |

Approved By: Joel Kiff

CALIFORNIA LABORATORY SERVICES



07/06/2001

Joel Kiff 720 Olive Drive, Suite D Davis, CA 95616

Attention: Joel Kiff

Reference: Analytical Results

Project Name:

Project No.: 022-280
Date Received: 06/25/2001

Chain Of Custody: 20888

CLS ID No.: \$9489

CLS Job No.: 839489

The following analyses were performed on the above referenced project:

| No. of Samples | Turnaround Time | Analysis Description | | | |
|-------------------|--------------------|-------------------------|--|--|--|
| | | | | | |
| 2 | 4 Days | Lead by EPA Method 6010 | | | |

These samples were received by CLS Labs in a chilled, intact state and accompanied by a valid chain of custody document.

Calibrations for analytical testing have been performed in accordance to and pass the EPA's criteria for acceptability.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D. Laboratory Director

KIFF ANALYTICAL SUBCONTRACT FORM

Subcontract Lab:

CLS Labs

Please mail results to:

Please fax to:

3249 Fitzgerald Rd.

JOEL KIFF

530-297-4803

Rancho, Cordova, CA 95742

KIFF ANALYTICAL

720 OLIVE DRIVE, SUITE D

DAVIS, CA 95616

916-638-7301

Account No.:

PROJECT NAME:

PROJECT NUMBER: 022-280

| Sample | Matrix | Sampled | Tests | Due Container |
|---------------|--------|------------|-------------|---------------|
| SP1a-d (comp) | so | 06/19/2001 | Lead - ICAP | 06/29/2001 |
| SP2a-d (comp) | so | 06/19/2001 | Lead - ICAP | 06/29/2001 |

| Stor tillrice | chelo wa | Received by: formal allif CLF |
|--|-------------------------|-------------------------------|
| Relinquished by: | Date/Time: 0/04/07 /944 | Received by: |
| Relinquished by: longar glass | Date/Time: 6/25/20 /630 | Received by: |
| Troining and any in the state of the state o | 7 | |
| Relinquished by : | Date/Time: | Received by: |

CALIFORNIA LABORATORY SERVICES



Analysis Report: Lead, EPA Method 6010

Client: Joel Kiff

720 Olive Drive,

Suite D

Davis, CA 95616

Project:

Date Sampled: 06/19/2001 Date Received: 06/25/2001 Date Extracted: 06/27/2001 Date Analyzed: 07/02/2001 Date Reported: 07/06/2001

Project No.: 022-280

Contact: Joel Kiff Phone: (530)297-4800

Lab Contact: James Liang

Lab ID No.: S9489

Job No.: 839489 COC Log No.: 20888 Batch No.: M010627A

Instrument ID: IP004 Analyst ID: SCOTTF

Matrix: SOIL

ANALYTICAL RESULTS

| Lab / Client ID | CAS No. | Results | Rep. Limit | Dilution |
|---|--------------------|----------|------------|----------|
| Analyte | | (mg/kg) | (mg/kg) | (factor) |
| 1A / SP1a-d (comp) Pb (Lead) 2A / SP2a-d (comp) Pb (Lead) | 7439921 7439921 | ND ND | 2.5 | 1.0 |

ND = Not detected at or above indicated Reporting Limit