

URS

SHC 6436

October 31, 2000
Project No. 5109967060.07

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ENVIRONMENTAL
PROTECTION

Ms. Susan Hugo
Alameda County Environmental Health Services
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

Subject: Post-Excavation Closure Report for Parcel T9 located at 555 12th Street
(formerly referred to as 1155 Clay St.) in Oakland, California

Dear Ms Hugo:

URS Corporation (URS) is pleased to provide this letter report describing the results of post-excavation soil sampling at the subject property in Oakland, California. The work was performed in accordance with the Construction Risk Management Plan submitted to the County (URSGWC, 2000). The primary objective of the soil sampling was to document any remaining concentrations of petroleum hydrocarbons following the completion of the building foundation excavation.

BACKGROUND

At Parcel T9, URS (as Woodward-Clyde) observed the excavation of contaminated fill material and documented these activities in a technical report (WCC, 1991). Contaminated fill was removed from the site. One area of diesel-impacted native soil was excavated to a maximum depth of approximately 34 feet below street level. This area was then backfilled with approximately 8 feet of lean cement overlain by approximately 4 feet of compacted soil. Confirmation soil samples were collected on a regular grid across the site to confirm that the contaminated fill had been removed from the site.

Native soils were characterized in September 1999 and an excavation work plan was prepared by URS and submitted to the County (URSGWC, 1999). The County requested that a Construction Risk Management Plan (RMP) be prepared and submitted prior to any excavation work.

The Construction RMP prepared by URS outlined the post-excavation soil sampling plan. The plan included sampling at locations where chemicals of concern are suspected based on field screening. In general, an average of one sample for every 5,000 square feet of excavation surface (or about one sample per 70 linear feet) was planned for the effort. Soil samples were planned for analysis of total petroleum hydrocarbons as gasoline (TPHg), total petroleum hydrocarbons as diesel (TPHd), benzene, toluene, ethylbenzene and xylenes (BTEX), and MTBE.

URS Corporation
500 12th Street, Suite 200
Oakland, CA 94607-4014
Tel: 510.893.3600
Fax: 510.874.3268

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Based on available data (primarily the URSGWC report dated October 19, 1999), the Regional Water Quality Control Board (RWQCB) stated in a letter dated June 22, 2000 (Appendix A) that native soil below the fill material can be classified as an inert waste pursuant to California Code of Regulations, Chapter 15, Title 27, Section 20230. As such, the RWQCB stated that the materials do not need to be disposed of at a classified landfill and the material does not warrant regulatory oversight. Furthermore, the RWQCB explicitly placed no restrictions on its reuse. The possible exception to this was noted as the soil located in the southwest corner (40 feet by 25 feet) where gasoline was believed to be present from a depth of +6 to +11 feet relative to a City of Oakland Datum (C.O.O.D.). The measured groundwater elevation in August 1999 was about +8 feet C.O.O.D.

Prior to beginning any building construction activities, the site appeared as shown in Figure 1. Photographic documentation is provided at the end of this letter report.

ABANDONED WELLS

Prior to beginning construction activities at the site, groundwater monitoring wells W3, W4 and W5 were abandoned by pressure grouting with cement grout in accordance with Alameda County Public Works Agency policies and guidelines. The work was completed in May 2000. The approved permit application and Well Completion Reports are included in Appendix B.

SCOPE OF EXCAVATION WORK

To accommodate the construction of two levels of underground parking and a mat foundation for a high-rise building, native soils were excavated from the site by Pacific States Environmental Contractors, Inc. on behalf of the owner Shorenstein Company. The excavation work commenced in June 2000 and was completed in October 2000. A soil dewatering system was installed in July 2000. The dewatering wells were sampled and the results documented in two reports (URS, 2000a,b). Water from the dewatering system was treated and discharged in accordance with an NPDES general permit including self-monitoring reports prepared by URS and submitted to the RWQCB.

The vertical walls of the excavation were stabilized using a combination of soil nailing and shotcreting. During the excavation, URS performed periodic visits to monitor for visual and olfactory signs of petroleum hydrocarbon contamination. A photoionization detector (PID) was used to monitor areas most likely to have hydrocarbon-impacted soil. Soil was excavated to various depths across the site to account for variations in the required depth of the mat foundation. The minimum and maximum depths of the excavation were +16.5 and +9 feet, respectively (relative to the C.O.O.D.). A total of approximately 35,700 cubic yards of soil were removed from the site for beneficial reuse. Discussion of field observations and documentation regarding hydrocarbon-impacted soils are provided below.

DESCRIPTION OF SOIL SAMPLING AND FIELD OBSERVATIONS

Per the Construction RMP (URSGWC, 2000), samples were collected at representative locations along the walls of the excavation and on the bottom of the excavation. The soil samples were intended to be representative of soil that will remain on site after the excavation is finished and the building is constructed. In general an average of one sample for every 5,000 square feet of excavation surface was collected or about one sample per 70 linear feet. Grab soil samples were collected of undisturbed soils using a clean trowel and placed in laboratory-provided 4-ounce glass jars. The soil samples were analyzed for TPHg, TPHd, BTEX, and MTBE at Chromalab in Pleasanton, California. The approximate locations of the soil samples are shown on Figure 2.

Seventeen (17) soil samples were collected on August 2, 2000 from the recently exposed walls of the excavation at approximate depths of 10 to 16 feet below street level. On August 10, 2000, URS collected one sample from the hydrocarbon-impacted soil in the northeast corner of the bottom of the excavation. On September 13, 2000, eleven (11) samples were collected from the bottom of the excavation.

During excavation in the southwest corner of the parcel, there was a distinct hydrocarbon odor and greenish-grayish discoloration to the soil. In this area, a PID was used to measure organic vapor concentrations in the headspace of soil samples placed in plastic bags. PID readings in this area ranged from 20 to 140 parts per million (ppm). The hydrocarbon-impacted soil was segregated and covered with plastic pending receipt of analytical results. A four-point composite soil sample (sample No. T-9) was collected on July 19, 2000 and analyzed for TPHg, TPHd, BTEX and lead. The sample results indicated lead at 4.4 mg/kg; TPHg at 530 mg/kg; TPHd at 280 mg/kg; benzene and toluene at <1.2 mg/kg; ethylbenzene at 3.9 mg/kg; and xylenes at 9.0 mg/kg. The TPHg and TPHd results did not match the laboratory standards which suggests that this is an old spill that has been altered considerably. The analytical results were submitted to the Republic Services Vasco Road Landfill in Livermore for profiling and acceptance as a non-hazardous waste. The results were consistent with historical data used to profile potentially impacted soils at the site, thus the material was accepted by Republic Services for disposal as a non-hazardous waste.

During excavation on August 10, 2000, workers discovered an area with hydrocarbon-impacted soil near the northeast corner of the parcel. The area was about 48 feet from 12th Street and 65 feet from Clay Street. The impacted area had lateral dimensions of about five feet by three feet. According to on-site workers, the depth of the impacted soil apparently started at about three feet above the final depth of the excavation. The impacted soil was segregated pending laboratory analysis. A composite sample was collected from the impacted area near the bottom of the excavation and analyzed for TPHg, TPHd, BTEX and MTBE. Headspace testing revealed vapor concentrations ranging from 60 to 220 ppm. The sample results (bottom of excavation sample No. 1) are

shown in Table 1 (TPHg at 1.6 mg/kg and TPHd at 180 mg/kg). The TPHg result did not match the laboratory standard. The results were of the same general magnitude as those for the impacted soils in the southwest corner, thus the material was accepted by Republic Services for disposal as a non-hazardous waste. Approximately 20 tons of impacted soil were removed from this area for disposal at the Republic Services landfill.

A total of 260 tons of hydrocarbon-impacted soils from the southwest and northeast corners of the parcel were taken to the Republic Services Vasco Road Landfill in Livermore for disposal as a non-hazardous waste. Copies of the bills of lading for disposal of hydrocarbon-impacted soil are included in Appendix C.

SOIL SAMPLE RESULTS

Table 1 summarizes the results for side wall soil samples (sample Nos. 1 through 18) and bottom of excavation soil samples (sample Nos. 1 and T9-SS-19 through T9-SS-29). The complete laboratory reports are provided as an attachment (Appendix D).

Side Wall Sample Results

The laboratory reported no detection about the reporting limit (i.e., non-detectable concentrations) for TPHg, TPHd, BTEX and MTBE in the side wall samples. The non-detectable concentrations reported for sample Nos. 7, 8, 9 and 10 collected in the southwest corner of the site suggest that the lateral extent of hydrocarbon-impacted soils may not extend beyond the property boundary at the depth of the soil sampling.

Bottom of Excavation Sample Results

Three of the twelve bottom of excavation samples had detectable concentrations of hydrocarbons. These samples were:

- Bottom of excavation sample No. 1 (TPHg at 1.6 mg/kg and TPHd at 180 mg/kg);
- T9-SS-21 (TPHd at 1.9 mg/kg); and
- T9-SS-26 (TPHd at 1.5 mg/kg).

The laboratory reported no detection about the reporting limit for TPHg, TPHd, BTEX and MTBE in the other bottom of excavation samples. The TPHg result for sample No. 1 and the TPHd results for sample Nos. T9-SS-21 and T9-SS-26 did not match the laboratory standards.

Summary of Results

There are no risk-based standards by which to evaluate these TPHg and TPHd concentrations, since risk is assessed based on the concentrations of individual constituents (e.g., BTEX and MTBE) of the detected petroleum hydrocarbons. Generally,

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a TPHd concentration of 180 mg/kg would be considered to be a residual concentration that would not be cause for environmental concern in this setting. This is further supported by the fact that any hydrocarbons remaining in soil at the site will be covered by the subgrade concrete of the building foundation and underground parking structure such that there will not be any direct exposure via dermal contact for future occupants of the site. Finally, the absence of volatile hydrocarbon constituents like BTEX indicates no threat to groundwater or human health.

Thus, in conclusion, the results of the side wall and bottom of excavation samples suggest that residual hydrocarbon concentrations at the site would not pose a significant risk to groundwater quality or human health.

QUALITY ASSURANCE/QUALITY CONTROL (QA/QC) REVIEW

A QA/QC review of the soil analytical data provided by Chromalab was undertaken to evaluate the accuracy and precision of the laboratory results for use in this report. Upon receipt of laboratory reports, the following steps were taken in accordance with the U.S. EPA guidance for data validation. Sample custody documents were cross-checked with laboratory reports for sampling dates and required analyses. Holding times were calculated using analysis date, preparation date, and/or test date in relation to sampling date. The results were reviewed for QA/QC elements of precision, accuracy, reporting limits, and contamination. Also noted were any deviations from plans, protocols, or data quality objectives. Problems and irregularities were discussed with the laboratory, which printed revised reports as necessary. The following QA/QC parameters were reviewed during data evaluation:

- Chains of Custody - Verify that requested analyses were performed and that sampling dates are accurately noted in lab reports.
- Holding Times - Check for holding times in excess of EPA guidelines.
- Method Blanks - Review blank analyses for evidence of potential contamination.
- Matrix Spikes - Review matrix spike and spike duplicate (MS/MSD) recoveries and relative percent differences (RPDs) as a check for analytical precision and accuracy.
- Laboratory Control Samples - Review control and control duplicate recoveries and relative percent differences (RPDs) as a check for analytical accuracy and precision.
- Surrogates - Review surrogate recoveries as a check for sample specific accuracy.

Chains of Custody

All analyses were performed as requested and samples were adequately accounted for throughout the transfer from field to lab.

Holding Times

The analytical methods used for this study have established holding times which are the maximum amount of time after collection that a sample may be held prior to sample

preparation and/or analysis without qualification. Holding time was not exceeded in any case.

Method Blanks

Method blanks consist of deionized water which is carried through each step of the analysis with the environmental samples for each parameter. No laboratory contamination was observed in the method blanks.

Matrix Spikes

MS/MSD samples are analyzed to evaluate matrix interference for an analytical batch and to assess accuracy and precision. No qualification of the data was necessary based on this review.

Laboratory Control Samples (LCS)

LCS are well-characterized, laboratory-generated samples used to monitor the laboratory's day-to-day performance for analyses and assess the accuracy of the analytical process independent of matrix effects. All LCS recoveries were within control limits.

Surrogates

Surrogates are spiked into blanks, samples, quality control samples, and standards for organic analyses to evaluate accuracy on a sample-specific basis. Surrogates were added to every sample analyzed for TPH-diesel (o-terphenyl) and TPH-gasoline, BTEX, and MTBE (trifluorotoluene and 4-bromofluorobenzene-FID or trifluorotoluene-FID). All diesel surrogate recoveries were within control limits. Surrogate recoveries were outside of the control limits for sample T9-SS-20 for TPHg, BTEX and MTBE. Therefore, the TPHg, BTEX and MTBE results for sample T9-SS-20 are qualified as estimated non-detect.

Summary

The data reviewed are of acceptable precision and accuracy with the following qualification:

- T9-SS-20 TPHg, BTEX, and MTBE results are qualified as estimated non-detect ("UJ" qualifier).

All other results are acceptable without qualification for the purposes of this study.

CONCLUSIONS

The results of the post-excavation soil sampling at the site indicate non-detectable concentrations of petroleum hydrocarbons with the exception of low concentrations of hydrocarbons in soils in the southwest and northeast corners of the property. The impacted soils are limited in extent, and the detected concentrations suggest that residual

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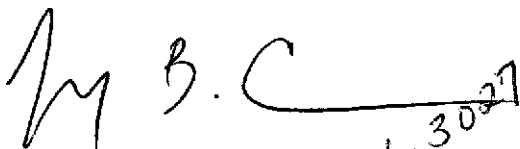
hydrocarbon concentrations under the high-rise building development scenario would not pose a significant risk to groundwater quality or human health.

LIMITATIONS

This report was prepared by URS for the use of Shorenstein Company, L.P. The scope of work was agreed upon by Shorenstein Company, L.P. Any reliance on this report by third parties shall be at such party's sole risk.

The work was conducted in general accordance with the accepted standard of practice that exists in northern California at the time. No other warranty is either expressed or implied. Judgements leading to conclusions and recommendations are generally made with an incomplete knowledge of the subsurface conditions present. More extensive studies including additional subsurface investigation can tend to reduce the inherent uncertainties associated with inferring subsurface conditions.

Please feel free to call either of the undersigned if you have any questions regarding this letter report.



Jay B. Clare, P.E.
Project Manager

570 874-3027



Albert Ridley, C.E.G.
Senior Consultant

Attachments:

List of References

Table 1 - Summary of Laboratory Analysis Results for Soil Samples

Figure 1 - Site Map Showing Pre-Construction Conditions

Figure 2 - Site Map and Location of Post-Excavation Soil Samples

Photographic Documentation

Appendix A - Regional Water Quality Control Board Letter dated June 22, 2000

Appendix B - Approved Well Abandonment Permit Application and Well Completion Reports

Appendix C - Bills of Lading for Non-Hazardous Soil Disposed of at the Republic Services Vasco Road Landfill

Appendix D - Analytical Laboratory Reports

cc: Nicholas Loukianoff, Shorenstein Company, L.P.
Alex Greenwood, City of Oakland
Philip Pogledich, Pillsbury, Madison & Sutro



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LIST OF REFERENCES

URS Corporation (URS). 2000a. Recent Groundwater Analytical Results and NPDES Permit No. CAG912002, Order No. 96-078, Shorenstein Realty Services, Parcel T9, 555 12th Street, Oakland. July 28, 2000.

URS. 2000b. Addendum to URS Letter Report on Recent Groundwater Analytical Results, Shorenstein Realty Services, Parcel T9, 555 12th Street, Oakland. July 31, 2000.

URS Greiner Woodward Clyde (URSGWC). 1999. Soil Characterization Study and Excavation Work Plan for Parcel T9 in Oakland, California. October 19, 1999.

URSGWC. 2000. Construction Risk Management Plan, 1155 Clay Street (Parcel T-9), City of Oakland, California. March 23, 2000.

Woodward-Clyde Consultants (WCC). 1991. Soil Remediation Report, 1155 Clay Street, Oakland, California. November 27, 1991.

**Table 1.
Post Excavation Soil Sample Results**

Sample ID	Units	SOIL FOR DISPOSAL	SIDE WALL SAMPLES											
		T-9	1	2	3	4	5	6	7	8	9	10	12	
Sampling Date		07/19/00	08/02/00	08/02/00	08/02/00	08/02/00	08/02/00	08/02/00	08/02/00	08/02/00	08/02/00	08/02/00	08/02/00	08/02/00
Depth	feet bgs	-	10	10	14	14	14	16	13	13	13	13	13	
TPH by EPA Method 8015M														
TPH-Gasoline	mg/kg	530 (q)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
TPH-Diesel	mg/kg	280 (q)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
BTEX by EPA Method 8020														
Benzene	mg/kg	<1.2	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Toluene	mg/kg	<1.2	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Ethyl benzene	mg/kg	3.9	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Xylene(s)	mg/kg	9.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
MTBE by EPA Method 8020														
MTBE	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	

Notes:

feet bgs = feet below ground surface.

(q) = hydrocarbon reported in given range does not match laboratory standard

Sample No. 11 was indicated as pending approval on the chain of custody form

since it was deemed to be redundant in the overall sampling scheme, thus it was not chemically analyzed.

**Table 1.
Post Excavation Soil Sample Results**

Sample ID	Units	SIDEWALL SAMPLES						BOTTOM OF EXCAVATION					
		13	14	15	16	17	18	1	T9-SS-19	T9-SS-20	T9-SS-21	T9-SS-22	T9-SS-23
Sampling Date		08/02/00	08/02/00	08/02/00	08/02/00	08/02/00	08/02/00	08/10/00	09/13/00	09/13/00	09/13/00	09/13/00	09/13/00
Depth	feet bgs	13	13	11	8	13	14	18	18	26	26	18	26
TPH by EPA Method 8015M													
TPH-Gasoline	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.6 (q)	<1.0	<1.0	<1.0	<1.0	<1.0
TPH-Diesel	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	180	<1.0	<1.0	1.9 (q)	<1.0	<1.0
BTEX by EPA Method 8020													
Benzene	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethyl benzene	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Xylene(s)	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MTBE by EPA Method 8020													
MTBE	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Notes:

feet bgs = feet below ground surface.

(q) = hydrocarbon reported in given range does not match laboratory standard

**Table 1.
Post Excavation Soil Sample Results**

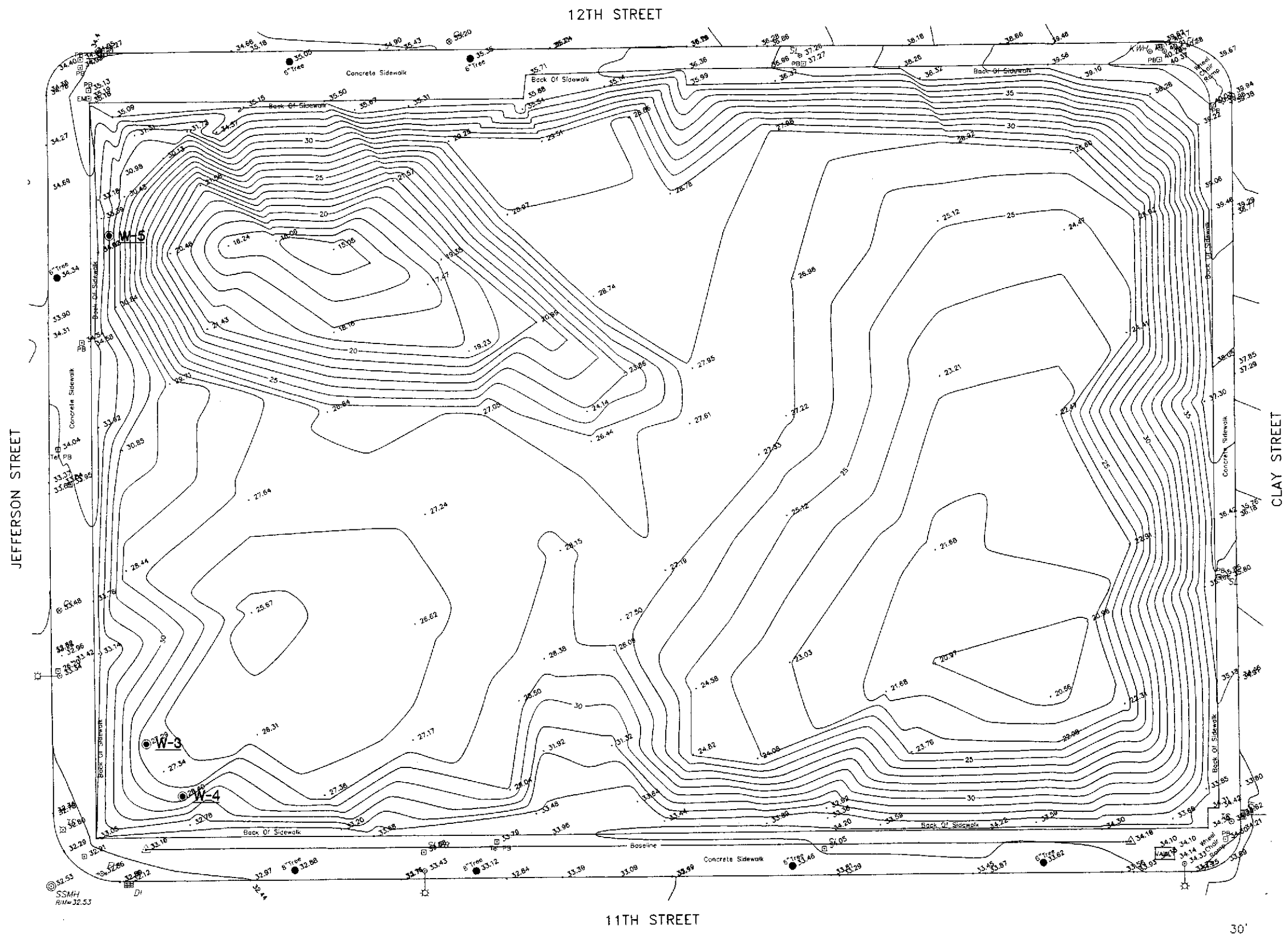
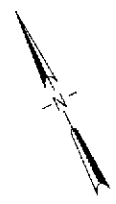
		BOTTOM OF EXCAVATION					
Sample ID	Units	T9-SS-24	T9-SS-25	T9-SS-26	T9-SS-27	T9-SS-28	T9-SS-29
Sampling Date		09/13/00	09/13/00	09/13/00	09/13/00	09/13/00	09/13/00
Depth	feet bgs	26	18	21	18	21	21
TPH by EPA Method 8015M							
TPH-Gasoline	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
TPH-Diesel	mg/kg	<1.0	<1.0	1.5 (q)	<1.0	<1.0	<1.0
BTEX by EPA Method 8020							
Benzene	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethyl benzene	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Xylene(s)	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MTBE by EPA Method 8020							
MTBE	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Notes:

feet bgs = feet below ground surface.

(q) = hydrocarbon reported in given range does not match laboratory standard

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LEGEND

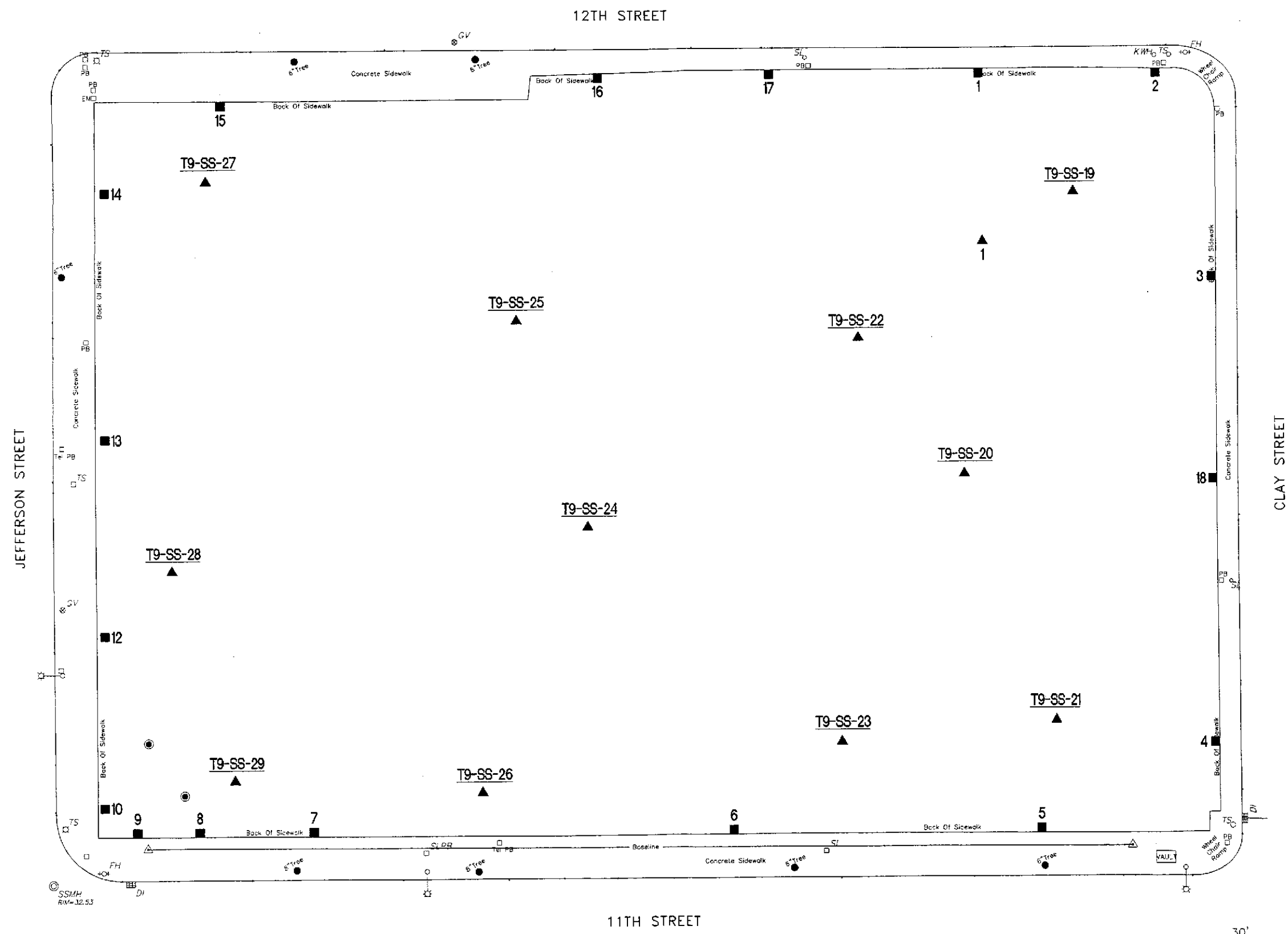
- LOCATION OF ABANDONED GROUNDWATER MONITORING WELL



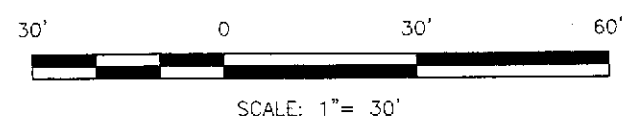
SCALE: 1" = 30'

Project No. 5109967060	SHORENSTEIN PARCEL T9	SITE MAP SHOWING PRE-CONSTRUCTION CONDITIONS	Figure 1
URS <small>OAKLAND, CALIFORNIA</small>			

J:\CAD\SHARED\SHORENSTEIN\PARCEL - T9\SHORSB05.DWG 100900 14HALF-HP755.PCP



- LEGEND**
- ▲ LOCATION OF BOTTOM OF EXCAVATION SOIL SAMPLE
 - LOCATION OF SIDEWALK SOIL SAMPLE



Project No. 5109967060	SHORENSTEIN PARCEL T9	SITE MAP AND LOCATION OF POST-EXCAVATION SOIL SAMPLES	Figure 2
URS OAKLAND, CALIFORNIA			



Photo 1 – Parcel T9 Prior to Construction Activities (view to southeast)



Photo 2 – Excavation Work in Progress (Hydrocarbon Impacted Soil Located Underneath Plastic Sheetting)



Photo 3 – Completion of Excavation with Groundwater Dewatering Well in Foreground (view to southeast)



Photo 4 – Final Excavation Depth With Initial Foundation Work (southwest corner)

Appendix A
Regional Water Quality Control Board Letter dated June 22, 2000



California Regional Water Quality Control Board

San Francisco Bay Region



Winston H. Hickox
Secretary for
Environmental
Protection

Internet Address: <http://www.swrcb.ca.gov>
1515 Clay Street, Suite 1400, Oakland, California 94612
Phone (510) 622-2300 • FAX (510) 622-2460

Gray Davis
Governor

June 22, 2000
File No. 2223.08 (CTH)

Mr. Paul Dumond
Director of Development
Shorenstein Asset Services
555 California Street
San Francisco, California 94104

Subject: Reuse of Soil, Parcel T-9 at 555 12th Street, Oakland City Center, Alameda County

Dear Mr. Dumond:

I have reviewed your report dated May 4, 2000, regarding soil that will be excavated from Parcel T-9 at the Oakland City Center Project. The report documents analytical results for in-place native soil at the site. Analytical results of soil profiling of the in-place native soils indicates that no petroleum hydrocarbons, VOCs, and SVOCs are present in the materials to be excavated. Background concentrations of metals are present at the site but are below regulatory thresholds.

Background

Woodward-Clyde states in a report dated November 27, 1991, that lead and petroleum-impacted fill material was excavated and removed from the site in 1990/1991. One area of diesel-impacted native soil was excavated to a maximum depth of approximately 34 feet below street level. This area was then backfilled with approximately 8 feet of lean cement overlain by approximately 4 feet of compacted soil. Confirmation soil samples were collected on a regular grid across the site to confirm that the contaminated fill had been removed from the site.

The nature and extent of possible contamination of the native soil was investigated by URS Greiner Woodward Clyde in September 1999. Based on the results of the September 1999 soil sampling and analysis, it was concluded that:

- Petroleum hydrocarbon impacted soils appear to be limited in extent to the southwest corner of the property, in a hydrocarbon "smear zone" above the water table.
- The soluble threshold limits concentration (STLC) results for lead indicate that the soil would not be considered a California hazardous waste if excavated.

Post-It® Fax Note	7871	Date	# of pages 2
To	Jay Clare	From	Chuck Headlee
Co./Dept.		Co.	
Phone #		Phone #	
Fax #	510 874-3268	Fax #	

Mr. Dumond

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June 22, 2000

Scope of Excavation

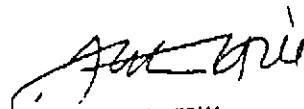
The construction plan for the site involves excavation of soil down to a maximum depth of +10 feet City of Oakland Datum for the construction of two levels of underground parking and a high-rise building. This will not intercept the possible petroleum smear zone present at the water table. The total estimated volume of native soil to be excavated is about 31,000 cubic yards. The Owner/Contractor intends to reuse the soil as fill at another construction site within the San Francisco Bay Region.

Based on the data provided, it appears that the soil to be excavated can be classified as an inert waste pursuant to California Code of Regulations, Chapter 15, Title 27, Section 20230. As such the materials do not need to be disposed of at a classified landfill. Additionally, this material does not warrant regulatory oversight and the San Francisco Bay Regional Water Quality Control Board places no restrictions on its reuse.

If you have any questions, please contact Chuck Headlee of my staff at (510) 622-2433, e-mail cth@rb2.swrcb.ca.gov.

Sincerely,

Lawrence P. Kolb
Acting Executive Officer



Stephen A. Hill
Chief, Toxics Cleanup Division

cc: Susan Hugo
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Room 250
Alameda, California 94502

Appendix B

Approved Well Abandonment Permit Application and Well Completion Reports



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

951 TURNER COURT, SUITE 308, MAYWOOD, CA 94545-2651

PHONE (510) 874-3268 FAX (510) 874-3268

FAX (510) 874-3268 782-1939 Fax

(510) 670-5554

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT Shorenstein Parcel T9
Between 11th/12th Streets
Oakland CA

PERMIT NUMBER W00-080
WELL NUMBER _____
APN _____

CLIENT Name Shorenstein Company L.P.
Address 255 California St Phone _____
City San Francisco Zip 94104

APPLICANT Name Jay Clare
Address 510 12th St Suite 200 Phone 510 874 3027
City Oakland CA Zip 94607

TYPE OF PROJECT		Geotechnical Investigation	
Well Construction		General	<input type="checkbox"/>
Cathodic Protection	<input type="checkbox"/>	Contamination	<input type="checkbox"/>
Water Supply	<input type="checkbox"/>	Well Construction	<input checked="" type="checkbox"/>
Monitoring	<input type="checkbox"/>		

PROPOSED WATER SUPPLY WELL USE			
New Domestic	<input type="checkbox"/>	Replacement Domestic	<input type="checkbox"/>
Municipal	<input type="checkbox"/>	Irrigation	<input type="checkbox"/>
Industrial	<input type="checkbox"/>	Other	<input type="checkbox"/>

DRILLING METHOD			
Mud Rotary	<input type="checkbox"/>	Air Rotary	<input type="checkbox"/>
Cable	<input type="checkbox"/>	Other	<input type="checkbox"/>
		Auger	<input type="checkbox"/>

DRILLER'S LICENSE NO. 485165

WELL PROJECTS			
Drill Hole Diameter	<u>8</u> in	Maximum Depth	<u>30.5</u> ft
Casing Diameter	<u>7</u> in	Number	<u>3</u>
Surface Seal Depth	_____ ft		

GEOTECHNICAL PROJECTS			
Number of Borings	_____	Maximum Hole Diameter	_____ in
		Depth	_____ ft

ESTIMATED STARTING DATE 2-22-00
ESTIMATED COMPLETION DATE 2-22-00

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Jay Clare DATE 2-11-00

- A. GENERAL.**
- A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
 - Submit to ACPWA within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report of Acquisition for each project or drilling to ground location which has geotechnical aspects.
 - Permit is void if project not begun within 90 days of approval date.

- B. WATER SUPPLY WELLS**
- Minimum surface seal thickness is two inches of cement grout placed by tremie.
 - Minimum seal depth is 30 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

- C. GROUNDWATER MONITORING WELLS INCLUDING MEZOMETERS**
- Minimum surface seal thickness is two inches of cement grout placed by tremie.
 - Minimum seal depth for monitoring wells is the maximum depth detectable or 20 feet.

- D. GEOTECHNICAL**
- Backfill bore hole with ~~concrete grout~~ concrete grout or ~~cement~~ benonite and upper two feet with compacted material. In areas of known or suspected contamination, treated cement grout shall be used in place of compacted sludge.

- E. CATHODIC** Fill hole above anode zone with concrete placed by tremie.
- F. WELL DESTRUCTION** See attached.
- G. SPECIAL CONDITIONS**

APPROVED Frank O'Call DATE 2-18-00

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

**STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)**

REMOVED

Appendix C
Bills of Lading for Non-Hazardous Soil Disposed of
at the Republic Services Vasco Road Landfill



REPUBLIC SERVICES VASCO ROAD, LLC

4001 N. Vasco Road, Livermore, California 94550 • (925) 447-0491

No: 0034093

OCT 2000
RECEIVED
JUDITH VOSS

TICKET: 56142
CUSTOMER: PAC ST / PACIFIC STATES ENVIR
TRUCK: 1140 P.O.:
ACCT#: 5014976
PROFILE #: 02633

DATE: 08/10/2000
TIME: 15:50 - 15:50

GENERATOR: SHOR / SHORENSTEIN REALT
ORIGIN: 0020 / ALAMEDA
LICENSE:
COMMENT:

GROSS: 59560 LBS Manual
TARE: 30200 LBS Weight
NET: 29360 LBS

WASTE	QUANTITY	UNIT	RATE	AMOUNT
SANDA / SAND ADC	19.73	T		\$

I certify that I have not disposed of any liquid or hazardous waste

Total: \$

Signature

Paul N 1140

DRIVER

CUSTOMER



REPUBLIC SERVICES VASCO ROAD, LLC

4001 N. Vasco Road, Livermore, California 94550 • (925) 447-0491

No: 0033944

TICKET: 55994
CUSTOMER: PAC ST / PACIFIC STATES ENVIR
TRUCK: 1140 P.O.:
ACCT#: 5014976
PROFILE #: 02638

DATE: 08/10/2000
TIME: 12:51 - 12:51

GENERATOR: SHOR / SHORENSTEIN REALT
ORIGIN: 0020 / ALAMEDA
LICENSE:
COMMENT:

GROSS: 72900 LBS Manual
TARE: 30300 LBS Weight
NET: 42600 LBS

WASTE	QUANTITY	UNIT	RATE	AMOUNT
SANDA / SAND ADC	21.30	T		\$

I certify that I have not disposed of any liquid or hazardous waste

Total: \$

Signature

Paul N 1140

DRIVER

All children must remain in vehicles. Absolutely no salvaging allowed.

WARNING: Transporting any unauthorized hazardous waste to this facility for disposal is prohibited by law. Persons violating this prohibition are subject to civil and criminal prosecution.

WARNING: Transporting any unauthorized hazardous waste to this facility for disposal is prohibited by law. Persons violating this prohibition are subject to civil and criminal prosecution.

All children must remain in vehicles. Absolutely no salvaging allowed.



REPUBLIC SERVICE VASCO ROAD, LLC
4001 N. Vasco Road, Livermore, California 94550 • (925) 447-0491

No: 0100155

TICKET: 62786
CUSTOMER: PAC ST / PACIFIC STATES ENVIR
TRUCK: 1010 P.O.:
ACCT#: 5014976
PROFILE #: 02538

DATE: 08/30/2000
TIME: 08:48 - 09:05

GENERATOR: SHOR / SHORENSTEIN REALT
ORIGIN: 0020 / ALAMEDA
LICENSE:
COMMENT:

GROSS: 59060 LBS
TARE: 31340 LBS
NET: 27720 LBS

WASTE	QUANTITY	UNIT	RATE	AMOUNT
SANDA / SAND ADC	13.85	T		\$

I certify that I have not disposed of any liquid or hazardous waste

Total: \$

Weighmaster:

[Signature]
DRIVER

CUSTOMER

WARNING: Transporting any unauthorized hazardous waste to this facility for disposal is prohibited by law. Persons violating this prohibition are subject to civil and criminal prosecution.



REPUBLIC SERVICES VASCO ROAD, LLC
4001 N. Vasco Road, Livermore, California 94550 • (925) 447-0491

No: 0022987

TICKET: 57541
CUSTOMER: PAC ST / PACIFIC STATES ENVIR
TRUCK: JR4 P.O.:
ACCT#: 5014976
PROFILE #: 02538

DATE: 08/15/2000
TIME: 14:00 - 14:00

GENERATOR: SHOR / SHORENSTEIN REALT
ORIGIN: 0020 / ALAMEDA
LICENSE:
COMMENT:

GROSS: 87100 LBS Manual
TARE: 33680 LBS Weight
NET: 53420 LBS

WASTE	QUANTITY	UNIT	RATE	AMOUNT
SANDA / SAND ADC	25.71	T		\$

I certify that I have not disposed of any liquid or hazardous waste

Total: \$

Weighmaster:

DRIVER

WARNING: Transporting any unauthorized hazardous waste to this facility for disposal is prohibited by law. Persons violating this prohibition are subject to civil and criminal prosecution.

WARNING: Transporting any unauthorized hazardous waste to this facility for disposal is prohibited by law. Persons violating this prohibition are subject to civil and criminal prosecution.



REPUBLIC SERVICE VASCO ROAD, LLC

4001 N. Vasco Road, Livermore, California 94550 • (925) 447-0491

No:0040939

TICKET: 50380
CUSTOMER: PAC ST / PACIFIC STATES ENVIR
TRUCK: 2 P.O.:
ACCT#: 5014975
PROFILE #: 02538A

DATE: 07/25/2000
TIME: 10:26 - 11:12

GENERATOR: SHOR / SHORENSTEIN REALT
ORIGIN: 0020 / ALAMEDA
LICENSE:
COMMENT:

GROSS: 91100 LBS Manual
TARE: 34440 LBS Weight
NET: 56660 LBS

WASTE	QUANTITY	UNIT	RATE	AMOUNT
SAND / SAND DISPOSAL	28.33	T		\$

I certify that I have not disposed of any liquid or hazardous waste

Total: \$

Weightmaster:

Tom Howard

DRIVER

CUSTOMER



REPUBLIC SERVICES VASCO ROAD, LLC

4001 N. Vasco Road, Livermore, California 94550 • (925) 447-0491

No:0041055

TICKET: 50495
CUSTOMER: PAC ST / PACIFIC STATES ENVIR
TRUCK: 2 P.O.:
ACCT#: 5014975
PROFILE #: 02538A

DATE: 07/25/2000
TIME: 14:30 - 14:31

GENERATOR: SHOR / SHORENSTEIN REALT
ORIGIN: 0020 / ALAMEDA
LICENSE:
COMMENT:

GROSS: 112300 LBS Manual
TARE: 34440 LBS Weight
NET: 77860 LBS

WASTE	QUANTITY	UNIT	RATE	AMOUNT
SAND / SAND DISPOSAL	38.93	T		\$

I certify that I have not disposed of any liquid or hazardous waste

Total: \$

Weightmaster:

Tom Howard

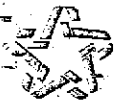
DRIVER

All children must remain in vehicles. Absolutely no salvaging allowed.

WARNING: Transporting any unauthorized hazardous waste to this facility for disposal is prohibited by law. Persons violating this prohibition are subject to civil and criminal prosecution.

All children must remain in vehicles. Absolutely no salvaging allowed.

WARNING: Transporting any unauthorized hazardous waste to this facility for disposal is prohibited by law. Persons violating this prohibition are subject to civil and criminal prosecution.



REPUBLIC SERVICES VASCO ROAD, LLC

4001 N. Vasco Road, Livermore, California 94550 • (925) 447-0491

No:0029359

TICKET: 51333
CUSTOMER: PAC ST / PACIFIC STATES ENVIR
TRUCK: 2 P.O. 1
ACCT#: 5014975
PROFILE #: 025328A

DATE: 07/28/2000
TIME: 07:25 - 07:25

GENERATOR: SHOR / SHORENSTEIN REALT
ORIGIN: 0020 / ALAMEDA
LICENSE:
COMMENT:

GROSS: 101280 LBS Manual
TARE: 34400 LBS Weight
NET: 66880 LBS

WASTE	QUANTITY	UNIT	RATE	AMOUNT
SAND / SAND DISPOSAL	33.44	T		\$

I certify that I have not disposed of any liquid or hazardous waste

Total: \$

Tom Wood

DRIVER CUSTOMER

CUSTOMER

WARNING: Transporting any unauthorized hazardous waste to this facility for disposal is prohibited by law. Persons violating this prohibition are subject to civil and criminal prosecution. Absolutely no salvaging allowed.



REPUBLIC SERVICES VASCO ROAD, LLC

4001 N. Vasco Road, Livermore, California 94550 • (925) 447-0491

No:0029378

TICKET: 51412
CUSTOMER: PAC ST / PACIFIC STATES ENVIR
TRUCK: DL P.O. 1
ACCT#: 5014975
PROFILE #: 025328A

DATE: 07/28/2000
TIME: 07:38 - 08:10

GENERATOR: SHOR / SHORENSTEIN REALT
ORIGIN: 0029 / ALAMEDA
LICENSE:
COMMENT:

GROSS: 81380 LBS Manual
TARE: 34580 LBS Weight
NET: 46800 LBS

WASTE	QUANTITY	UNIT	RATE	AMOUNT
SAND / SAND DISPOSAL	23.40	T		\$

I certify that I have not disposed of any liquid or hazardous waste

Total: \$

Tom Wood

DRIVER CUSTOMER

WARNING: Transporting any unauthorized hazardous waste to this facility for disposal is prohibited by law. Persons violating this prohibition are subject to civil and criminal prosecution. Absolutely no salvaging allowed.



REPUBLIC SERVICES VASCO ROAD, LLC

4001 N. Vasco Road, Livermore, California 94550 • (925) 447-0491

No. 0029422

TICKET: 51455
CUSTOMER: PAC ST / PACIFIC STATES ENVIR
TRUCK: 51 P.O.:
ACCT#: 5014975
PROFILE #: 02538A

DATE: 07/28/2000
TIME: 08:31 - 09:22

GENERATOR: SHOR / SHORENSTEIN REALT
ORIGIN: 0020 / ALAMEDA
LICENSE:
COMMENT:

GROSS: 83000 LBS Manual
TARE: 31400 LBS Weight
NET: 51600 LBS

WASTE	QUANTITY	UNIT	RATE	AMOUNT
SAND / SAND DISPOSAL	25.50	T		\$

I certify that I have not disposed of any liquid or hazardous waste

Total: \$

DRIVER

CUSTOMER



REPUBLIC SERVICES VASCO ROAD, LLC

4001 N. Vasco Road, Livermore, California 94550 • (925) 447-0491

No. 0029458

TICKET: 51492
CUSTOMER: PAC ST / PACIFIC STATES ENVIR
TRUCK: 23 P.O.:
ACCT#: 5014976
PROFILE #: 02538A

DATE: 07/28/2000
TIME: 08:24 - 10:17

GENERATOR: SHOR / SHORENSTEIN REALT
ORIGIN: 0020 / ALAMEDA
LICENSE:
COMMENT:

GROSS: 91120 LBS Manual
TARE: 32060 LBS Weight
NET: 59060 LBS

WASTE	QUANTITY	UNIT	RATE	AMOUNT
SAND / SAND DISPOSAL	29.53	T		\$

I certify that I have not disposed of any liquid or hazardous waste

Total: \$

DRIVER

WARNING: Transporting any unauthorized hazardous waste to this facility for disposal is prohibited by law. Persons violating this prohibition are subject to civil and criminal prosecution. Absolutely no salvaging allowed.

Appendix D
Analytical Laboratory Reports

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

Date: August 10, 2000

URS Greiner Woodward Clyde- Oakland

500 12th Street, Suite 200

Oakland, CA 94607-4014

Attn.: Mr. Jay Clare

Dear Jay,

Attached is our report for your samples received on Thursday August 3, 2000
This report has been reviewed and approved for release. Reproduction of this report
is permitted only in its entirety.

The report contains a Case Narrative detailing sample receipt and analysis.

Please note that any unused portion of the samples will be discarded after September 2, 2000
unless you have requested otherwise. We appreciate the opportunity to be of service to you.
If you have any questions, please call me at (925) 484-1919. You can also contact me via email.
My email address is: asalimpour@chromalab.com

Sincerely,



Afsaneh Salimpour

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

To: URS Greiner Woodward Clyde- Oakland
Attn.: Jay Clare

CASE NARRATIVE

General and Sample Comments

We (ChromaLab, Inc.) received 18 Soil samples, on Aug 3 2000 3:40PM.

Analysis Comments and Flags by QC Batch

G/BTEX with MTBE	Soil	QC Batch#: 2000/08/07.01-01
------------------	------	-----------------------------

#9 >> MS

Lab#: 2000/08/07.01-01-004

Compound Flag(s)

mso MS/MSD spike recoveries were out of QC limits due to matrix interference. Precision and Accuracy were verified by LCS/LCSD.

#9 >> MSD

Lab#: 2000/08/07.01-01-005

mso MS/MSD spike recoveries were out of QC limits due to matrix interference. Precision and Accuracy were verified by LCS/LCSD.

Gas BTEX	Soil	QC Batch#: 2000/08/04.01-01
----------	------	-----------------------------

SP-2 >> MS

Lab#: 2000/08/04.01-01-004

mso MS/MSD spike recoveries were out of QC limits due to matrix interference. Precision and Accuracy were verified by LCS/LCSD.

SP-2 >> MSD

Lab#: 2000/08/04.01-01-005

mso MS/MSD spike recoveries were out of QC limits due to matrix interference. Precision and Accuracy were verified by LCS/LCSD.

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

Diesel

URS Greiner Woodward Clyde- Oakland

✉ 500 12th Street, Suite 200
Oakland, CA 94607-4014

Attn: Jay Clare

Phone: (510) 874-3027 Fax: (510) 874-3268

Project #: 51099670607

Project:

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
#1	Soil	08/02/2000 17:45	1
#2	Soil	08/02/2000 14:48	2
#3	Soil	08/02/2000 14:55	3
#4	Soil	08/02/2000 14:56	4
#5	Soil	08/02/2000 14:59	5
#6	Soil	08/02/2000 15:10	6
#7	Soil	08/02/2000 15:13	7
#8	Soil	08/02/2000 15:16	8
#9	Soil	08/02/2000 15:20	9
#10	Soil	08/02/2000 15:23	10
#12	Soil	08/02/2000 15:28	12
#13	Soil	08/02/2000 15:31	13
#14	Soil	08/02/2000 15:35	14
#15	Soil	08/02/2000 15:39	15
#16	Soil	08/02/2000 15:45	16
#17	Soil	08/02/2000 15:50	17
#18	Soil	08/02/2000 16:00	18

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: **URS Greiner Woodward Clyde- Oakland**
Attn.: Jay Clare

Test Method: 8015M
Prep Method: 3550/8015M

Diesel

Sample ID: #1	Lab Sample ID: 2000-08-0080-001
Project: 51099670607	Received: 08/03/2000 15:40
Sampled: 08/02/2000 17:45	Extracted: 08/04/2000 10:19
Matrix: Soil	QC-Batch: 2000/08/04-01.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	08/04/2000 15:29	
<i>Surrogate(s)</i> o-Terphenyl	81.3	60-130	%	1.00	08/04/2000 15:29	

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8015M

Attn.: Jay Clare

Prep Method: 3550/8015M

Diesel

Sample ID: #2	Lab Sample ID: 2000-08-0080-002
Project: 51099670607	Received: 08/03/2000 15:40
Sampled: 08/02/2000 14:48	Extracted: 08/04/2000 10:19
Matrix: Soil	QC-Batch: 2000/08/04-01.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	08/04/2000 16:08	
<i>Surrogate(s)</i> o-Terphenyl	82.2	60-130	%	1.00	08/04/2000 16:08	

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8015M

Attn.: Jay Clare

Prep Method: 3550/8015M

Diesel

Sample ID: #3	Lab Sample ID: 2000-08-0080-003
Project: 51099670607	Received: 08/03/2000 15:40
Sampled: 08/02/2000 14:55	Extracted: 08/04/2000 10:19
Matrix: Soil	QC-Batch: 2000/08/04-01.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	08/04/2000 16:47	
<i>Surrogate(s)</i> o-Terphenyl	72.5	60-130	%	1.00	08/04/2000 16:47	

1220 Quarry Lane * Pleasanton, CA 94566-4756

Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8015M

Attn.: Jay Clare

Prep Method: 3550/8015M

Diesel

Sample ID: #4	Lab Sample ID: 2000-08-0080-004
Project: 51099670607	Received: 08/03/2000 15:40
Sampled: 08/02/2000 14:56	Extracted: 08/04/2000 10:19
Matrix: Soil	QC-Batch: 2000/08/04-01.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	08/04/2000 21:15	
<i>Surrogate(s)</i> o-Terphenyl	78.1	60-130	%	1.00	08/04/2000 21:15	

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: URS Greiner Woodward Clyde- Oakland
Attn.: Jay Clare

Test Method: 8015M
Prep Method: 3550/8015M

Diesel

Sample ID: #5	Lab Sample ID: 2000-08-0080-005
Project: 51099670607	Received: 08/03/2000 15:40
Sampled: 08/02/2000 14:59	Extracted: 08/04/2000 10:19
Matrix: Soil	QC-Batch: 2000/08/04-01.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	08/04/2000 17:25	
<i>Surrogate(s)</i> o-Terphenyl	75.4	60-130	%	1.00	08/04/2000 17:25	

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: URS Greiner Woodward Clyde- Oakland
Attn.: Jay Clare

Test Method: 8015M
Prep Method: 3550/8015M

Diesel

Sample ID: #6	Lab Sample ID: 2000-08-0080-006
Project: 51099670607	Received: 08/03/2000 15:40
Sampled: 08/02/2000 15:10	Extracted: 08/04/2000 10:19
Matrix: Soil	QC-Batch: 2000/08/04-01.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	08/04/2000 18:03	
<i>Surrogate(s)</i> o-Terphenyl	81.4	60-130	%	1.00	08/04/2000 18:03	

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: **URS Greiner Woodward Clyde- Oakland**
Attn.: Jay Clare

Test Method: 8015M
Prep Method: 3550/8015M

Diesel

Sample ID: #7	Lab Sample ID: 2000-08-0080-007
Project: 51099670607	Received: 08/03/2000 15:40
Sampled: 08/02/2000 15:13	Extracted: 08/04/2000 10:19
Matrix: Soil	QC-Batch: 2000/08/04-01.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	08/04/2000 18:41	
<i>Surrogate(s)</i> o-Terphenyl	74.6	60-130	%	1.00	08/04/2000 18:41	

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8015M

Attn.: Jay Clare

Prep Method: 3550/8015M

Diesel

Sample ID: #8	Lab Sample ID: 2000-08-0080-008
Project: 51099670607	Received: 08/03/2000 15:40
Sampled: 08/02/2000 15:16	Extracted: 08/04/2000 10:19
Matrix: Soil	QC-Batch: 2000/08/04-01.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	08/04/2000 19:20	
Surrogate(s) o-Terphenyl	61.1	60-130	%	1.00	08/04/2000 19:20	

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: URS Greiner Woodward Clyde- Oakland
Attn.: Jay Clare

Test Method: 8015M
Prep Method: 3550/8015M

Diesel

Sample ID: #9	Lab Sample ID: 2000-08-0080-009
Project: 51099670607	Received: 08/03/2000 15:40
Sampled: 08/02/2000 15:20	Extracted: 08/04/2000 10:19
Matrix: Soil	QC-Batch: 2000/08/04-01.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	08/04/2000 19:58	
<i>Surrogate(s)</i> o-Terphenyl	80.2	60-130	%	1.00	08/04/2000 19:58	

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: URS Greiner Woodward Clyde- Oakland
Attn.: Jay Clare

Test Method: 8015M
Prep Method: 3550/8015M

Diesel

Sample ID: #10	Lab Sample ID: 2000-08-0080-010
Project: 51099670607	Received: 08/03/2000 15:40
Sampled: 08/02/2000 15:23	Extracted: 08/04/2000 10:19
Matrix: Soil	QC-Batch: 2000/08/04-01.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	08/04/2000 20:37	
<i>Surrogate(s)</i> o-Terphenyl	79.3	60-130	%	1.00	08/04/2000 20:37	

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8015M

Attn.: Jay Clare

Prep Method: 3550/8015M

Diesel

Sample ID: #12	Lab Sample ID: 2000-08-0080-012
Project: 51099670607	Received: 08/03/2000 15:40
Sampled: 08/02/2000 15:28	Extracted: 08/04/2000 10:19
Matrix: Soil	QC-Batch: 2000/08/04-01.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	08/04/2000 16:08	
<i>Surrogate(s)</i> o-Terphenyl	86.0	60-130	%	1.00	08/04/2000 16:08	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: URS Greiner Woodward Clyde- Oakland
Attn.: Jay Clare

Test Method: 8015M
Prep Method: 3550/8015M

Diesel

Sample ID: #13	Lab Sample ID: 2000-08-0080-013
Project: 51099670607	Received: 08/03/2000 15:40
Sampled: 08/02/2000 15:31	Extracted: 08/04/2000 10:19
Matrix: Soil	QC-Batch: 2000/08/04-01.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	08/04/2000 16:47	
<i>Surrogate(s)</i> o-Terphenyl	75.0	60-130	%	1.00	08/04/2000 16:47	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: **URS Greiner Woodward Clyde- Oakland**
Attn.: Jay Clare

Test Method: 8015M
Prep Method: 3550/8015M

Diesel

Sample ID: #14	Lab Sample ID: 2000-08-0080-014
Project: 51099670607	Received: 08/03/2000 15:40
Sampled: 08/02/2000 15:35	Extracted: 08/04/2000 10:19
Matrix: Soil	QC-Batch: 2000/08/04-01.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	08/04/2000 17:25	
<i>Surrogate(s)</i> o-Terphenyl	86.3	60-130	%	1.00	08/04/2000 17:25	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: URS Greiner Woodward Clyde- Oakland
Attn.: Jay Clare

Test Method: 8015M
Prep Method: 3550/8015M

Diesel

Sample ID: #15	Lab Sample ID: 2000-08-0080-015
Project: 51099670607	Received: 08/03/2000 15:40
Sampled: 08/02/2000 15:39	Extracted: 08/04/2000 10:19
Matrix: Soil	QC-Batch: 2000/08/04-01.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	08/04/2000 18:03	
<i>Surrogate(s)</i> o-Terphenyl	84.5	60-130	%	1.00	08/04/2000 18:03	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8015M

Attn.: Jay Clare

Prep Method: 3550/8015M

Diesel

Sample ID: #16	Lab Sample ID: 2000-08-0080-016
Project: 51099670607	Received: 08/03/2000 15:40
Sampled: 08/02/2000 15:45	Extracted: 08/04/2000 10:19
Matrix: Soil	QC-Batch: 2000/08/04-01.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	08/04/2000 18:41	
<i>Surrogate(s)</i> o-Terphenyl	84.4	60-130	%	1.00	08/04/2000 18:41	

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Environmental Services (SDB)

Submission #: 2000-08-0080

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8015M

Attn.: Jay Clare

Prep Method: 3550/8015M

Diesel

Sample ID: #17	Lab Sample ID: 2000-08-0080-017
Project: 51099670607	Received: 08/03/2000 15:40
Sampled: 08/02/2000 15:50	Extracted: 08/04/2000 10:19
Matrix: Soil	QC-Batch: 2000/08/04-01.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	08/04/2000 19:20	
<i>Surrogate(s)</i> o-Terphenyl	81.2	60-130	%	1.00	08/04/2000 19:20	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: **URS Greiner Woodward Clyde- Oakland**
Attn.: Jay Clare

Test Method: 8015M
Prep Method: 3550/8015M

Diesel

Sample ID: #18	Lab Sample ID: 2000-08-0080-018
Project: 51099670607	Received: 08/03/2000 15:40
Sampled: 08/02/2000 16:00	Extracted: 08/04/2000 10:19
Matrix: Soil	QC-Batch: 2000/08/04-01.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	08/04/2000 19:58	
<i>Surrogate(s)</i> o-Terphenyl	83.3	60-130	%	1.00	08/04/2000 19:58	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8015M

Attn.: Jay Clare

Prep Method: 3550/8015M

Batch QC Report

Diesel

Method Blank	Soil	QC Batch # 2000/08/04-01.10
MB: 2000/08/04-01.10-001		Date Extracted: 08/04/2000 10:19

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	1	mg/Kg	08/04/2000 15:29	
<i>Surrogate(s)</i> o-Terphenyl	74.5	60-130	%	08/04/2000 15:29	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8015M

Attn: Jay Clare

Prep Method: 3550/8015M

Batch QC Report

Diesel

Laboratory Control Spike (LCS/LCSD)	Soil	QC Batch # 2000/08/04-01.10
LCS: 2000/08/04-01.10-002	Extracted: 08/04/2000 10:19	Analyzed 08/04/2000 21:15
LCSD: 2000/08/04-01.10-003	Extracted: 08/04/2000 10:19	Analyzed 08/04/2000 21:53

Compound	Conc. [mg/Kg]		Exp. Conc. [mg/Kg]		Recovery [%]			Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	RPD [%]	Recovery	RPD	LCS	LCSD
Diesel	29.7	34.7	41.7	41.7	71.2	83.2	15.5	60-130	25		
Surrogate(s) o-Terphenyl	20.0	23.0	20.0	20.0	100.0	115.0		60-130			

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

Gas/BTEX and MTBE

URS Greiner Woodward Clyde- Oakland

✉ 500 12th Street, Suite 200
Oakland, CA 94607-4014

Attn: Jay Clare

Phone: (510) 874-3027 Fax: (510) 874-3268

Project #: 51099670607

Project:

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
#1	Soil	08/02/2000 17:45	1
#2	Soil	08/02/2000 14:48	2
#3	Soil	08/02/2000 14:55	3
#4	Soil	08/02/2000 14:56	4
#5	Soil	08/02/2000 14:59	5
#6	Soil	08/02/2000 15:10	6
#7	Soil	08/02/2000 15:13	7
#8	Soil	08/02/2000 15:16	8
#9	Soil	08/02/2000 15:20	9
#10	Soil	08/02/2000 15:23	10
#12	Soil	08/02/2000 15:28	12
#13	Soil	08/02/2000 15:31	13
#14	Soil	08/02/2000 15:35	14
#15	Soil	08/02/2000 15:39	15
#16	Soil	08/02/2000 15:45	16
#17	Soil	08/02/2000 15:50	17
#18	Soil	08/02/2000 16:00	18

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn.: Jay Clare

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: #1	Lab Sample ID: 2000-08-0080-001
Project: 51099670607	Received: 08/03/2000 15:40
Sampled: 08/02/2000 17:45	Extracted: 08/04/2000 14:39
Matrix: Soil	QC-Batch: 2000/08/04-01.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	08/04/2000 14:39	
Benzene	ND	0.0050	mg/Kg	1.00	08/04/2000 14:39	
Toluene	ND	0.0050	mg/Kg	1.00	08/04/2000 14:39	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	08/04/2000 14:39	
Xylene(s)	ND	0.0050	mg/Kg	1.00	08/04/2000 14:39	
MTBE	ND	0.0050	mg/Kg	1.00	08/04/2000 14:39	
Surrogate(s)						
Trifluorotoluene	79.2	53-125	%	1.00	08/04/2000 14:39	
4-Bromofluorobenzene-FID	66.5	58-124	%	1.00	08/04/2000 14:39	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn.: Jay Clare

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: #2	Lab Sample ID: 2000-08-0080-002
Project: 51099670607	Received: 08/03/2000 15:40
Sampled: 08/02/2000 14:48	Extracted: 08/04/2000 15:14
Matrix: Soil	QC-Batch: 2000/08/04-01.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	08/04/2000 15:14	
Benzene	ND	0.0050	mg/Kg	1.00	08/04/2000 15:14	
Toluene	ND	0.0050	mg/Kg	1.00	08/04/2000 15:14	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	08/04/2000 15:14	
Xylene(s)	ND	0.0050	mg/Kg	1.00	08/04/2000 15:14	
MTBE	ND	0.0050	mg/Kg	1.00	08/04/2000 15:14	
Surrogate(s)						
Trifluorotoluene	75.2	53-125	%	1.00	08/04/2000 15:14	
4-Bromofluorobenzene-FID	63.2	58-124	%	1.00	08/04/2000 15:14	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn.: Jay Clare

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: #3	Lab Sample ID: 2000-08-0080-003
Project: 51099670607	Received: 08/03/2000 15:40
Sampled: 08/02/2000 14:55	Extracted: 08/04/2000 15:50
Matrix: Soil	QC-Batch: 2000/08/04-01.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	08/04/2000 15:50	
Benzene	ND	0.0050	mg/Kg	1.00	08/04/2000 15:50	
Toluene	ND	0.0050	mg/Kg	1.00	08/04/2000 15:50	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	08/04/2000 15:50	
Xylene(s)	ND	0.0050	mg/Kg	1.00	08/04/2000 15:50	
MTBE	ND	0.0050	mg/Kg	1.00	08/04/2000 15:50	
Surrogate(s)						
Trifluorotoluene	76.0	53-125	%	1.00	08/04/2000 15:50	
4-Bromofluorobenzene-FID	68.7	58-124	%	1.00	08/04/2000 15:50	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn.: Jay Clare

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: #4	Lab Sample ID: 2000-08-0080-004
Project: 51099670607	Received: 08/03/2000 15:40
Sampled: 08/02/2000 14:56	Extracted: 08/04/2000 16:25
Matrix: Soil	QC-Batch: 2000/08/04-01.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	08/04/2000 16:25	
Benzene	ND	0.0050	mg/Kg	1.00	08/04/2000 16:25	
Toluene	ND	0.0050	mg/Kg	1.00	08/04/2000 16:25	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	08/04/2000 16:25	
Xylene(s)	ND	0.0050	mg/Kg	1.00	08/04/2000 16:25	
MTBE	ND	0.0050	mg/Kg	1.00	08/04/2000 16:25	
Surrogate(s)						
Trifluorotoluene	72.0	53-125	%	1.00	08/04/2000 16:25	
4-Bromofluorobenzene-FID	58.9	58-124	%	1.00	08/04/2000 16:25	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn.: Jay Clare

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: #5	Lab Sample ID: 2000-08-0080-005
Project: 51099670607	Received: 08/03/2000 15:40
Sampled: 08/02/2000 14:59	Extracted: 08/04/2000 17:01
Matrix: Soil	QC-Batch: 2000/08/04-01.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	08/04/2000 17:01	
Benzene	ND	0.0050	mg/Kg	1.00	08/04/2000 17:01	
Toluene	ND	0.0050	mg/Kg	1.00	08/04/2000 17:01	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	08/04/2000 17:01	
Xylene(s)	ND	0.0050	mg/Kg	1.00	08/04/2000 17:01	
MTBE	ND	0.0050	mg/Kg	1.00	08/04/2000 17:01	
Surrogate(s)						
Trifluorotoluene	74.9	53-125	%	1.00	08/04/2000 17:01	
4-Bromofluorobenzene-FID	62.0	58-124	%	1.00	08/04/2000 17:01	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn.: Jay Clare

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: #6	Lab Sample ID: 2000-08-0080-006
Project: 51099670607	Received: 08/03/2000 15:40
Sampled: 08/02/2000 15:10	Extracted: 08/04/2000 17:36
Matrix: Soil	QC-Batch: 2000/08/04-01.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	08/04/2000 17:36	
Benzene	ND	0.0050	mg/Kg	1.00	08/04/2000 17:36	
Toluene	ND	0.0050	mg/Kg	1.00	08/04/2000 17:36	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	08/04/2000 17:36	
Xylene(s)	ND	0.0050	mg/Kg	1.00	08/04/2000 17:36	
MTBE	ND	0.0050	mg/Kg	1.00	08/04/2000 17:36	
Surrogate(s)						
Trifluorotoluene	77.3	53-125	%	1.00	08/04/2000 17:36	
4-Bromofluorobenzene-FID	68.1	58-124	%	1.00	08/04/2000 17:36	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn.: Jay Clare

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: #7	Lab Sample ID: 2000-08-0080-007
Project: 51099670607	Received: 08/03/2000 15:40
Sampled: 08/02/2000 15:13	Extracted: 08/04/2000 18:12
Matrix: Soil	QC-Batch: 2000/08/04-01.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	08/04/2000 18:12	
Benzene	ND	0.0050	mg/Kg	1.00	08/04/2000 18:12	
Toluene	ND	0.0050	mg/Kg	1.00	08/04/2000 18:12	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	08/04/2000 18:12	
Xylene(s)	ND	0.0050	mg/Kg	1.00	08/04/2000 18:12	
MTBE	ND	0.0050	mg/Kg	1.00	08/04/2000 18:12	
Surrogate(s)						
Trifluorotoluene	68.8	53-125	%	1.00	08/04/2000 18:12	
Trifluorotoluene-FID	71.0	53-125	%	1.00	08/04/2000 18:12	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn.: Jay Clare

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: #8	Lab Sample ID: 2000-08-0080-008
Project: 51099670607	Received: 08/03/2000 15:40
Sampled: 08/02/2000 15:16	Extracted: 08/04/2000 15:56
Matrix: Soil	QC-Batch: 2000/08/04-01.04

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	08/04/2000 15:56	
Benzene	ND	0.0050	mg/Kg	1.00	08/04/2000 15:56	
Toluene	ND	0.0050	mg/Kg	1.00	08/04/2000 15:56	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	08/04/2000 15:56	
Xylene(s)	ND	0.0050	mg/Kg	1.00	08/04/2000 15:56	
MTBE	ND	0.0050	mg/Kg	1.00	08/04/2000 15:56	
Surrogate(s)						
Trifluorotoluene	75.7	53-125	%	1.00	08/04/2000 15:56	
Trifluorotoluene-FID	58.4	53-125	%	1.00	08/04/2000 15:56	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn.: Jay Clare

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: #9	Lab Sample ID: 2000-08-0080-009
Project: 51099670607	Received: 08/03/2000 15:40
Sampled: 08/02/2000 15:20	Extracted: 08/07/2000 11:26
Matrix: Soil	QC-Batch: 2000/08/07-01.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	08/07/2000 11:26	
Benzene	ND	0.0050	mg/Kg	1.00	08/07/2000 11:26	
Toluene	ND	0.0050	mg/Kg	1.00	08/07/2000 11:26	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	08/07/2000 11:26	
Xylene(s)	ND	0.0050	mg/Kg	1.00	08/07/2000 11:26	
MTBE	ND	0.0050	mg/Kg	1.00	08/07/2000 11:26	
Surrogate(s)						
Trifluorotoluene	66.9	53-125	%	1.00	08/07/2000 11:26	
Trifluorotoluene-FID	68.1	53-125	%	1.00	08/07/2000 11:26	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn.: Jay Clare

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: #10	Lab Sample ID: 2000-08-0080-010
Project: 51099670607	Received: 08/03/2000 15:40
Sampled: 08/02/2000 15:23	Extracted: 08/04/2000 16:53
Matrix: Soil	QC-Batch: 2000/08/04-01.04

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	08/04/2000 16:53	
Benzene	ND	0.0050	mg/Kg	1.00	08/04/2000 16:53	
Toluene	ND	0.0050	mg/Kg	1.00	08/04/2000 16:53	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	08/04/2000 16:53	
Xylene(s)	ND	0.0050	mg/Kg	1.00	08/04/2000 16:53	
MTBE	ND	0.0050	mg/Kg	1.00	08/04/2000 16:53	
Surrogate(s)						
Trifluorotoluene	77.4	53-125	%	1.00	08/04/2000 16:53	
Trifluorotoluene-FID	59.6	53-125	%	1.00	08/04/2000 16:53	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn.: Jay Clare

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: #12	Lab Sample ID: 2000-08-0080-012
Project: 51099670607	Received: 08/03/2000 15:40
Sampled: 08/02/2000 15:28	Extracted: 08/04/2000 17:21
Matrix: Soil	QC-Batch: 2000/08/04-01.04

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	08/04/2000 17:21	
Benzene	ND	0.0050	mg/Kg	1.00	08/04/2000 17:21	
Toluene	ND	0.0050	mg/Kg	1.00	08/04/2000 17:21	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	08/04/2000 17:21	
Xylene(s)	ND	0.0050	mg/Kg	1.00	08/04/2000 17:21	
MTBE	ND	0.0050	mg/Kg	1.00	08/04/2000 17:21	
Surrogate(s)						
Trifluorotoluene	80.0	53-125	%	1.00	08/04/2000 17:21	
Trifluorotoluene-FID	60.3	53-125	%	1.00	08/04/2000 17:21	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn.: Jay Clare

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: #13	Lab Sample ID: 2000-08-0080-013
Project: 51099670607	Received: 08/03/2000 15:40
Sampled: 08/02/2000 15:31	Extracted: 08/04/2000 17:49
Matrix: Soil	QC-Batch: 2000/08/04-01.04

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	08/04/2000 17:49	
Benzene	ND	0.0050	mg/Kg	1.00	08/04/2000 17:49	
Toluene	ND	0.0050	mg/Kg	1.00	08/04/2000 17:49	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	08/04/2000 17:49	
Xylene(s)	ND	0.0050	mg/Kg	1.00	08/04/2000 17:49	
MTBE	ND	0.0050	mg/Kg	1.00	08/04/2000 17:49	
Surrogate(s)						
Trifluorotoluene	82.2	53-125	%	1.00	08/04/2000 17:49	
Trifluorotoluene-FID	62.4	53-125	%	1.00	08/04/2000 17:49	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn.: Jay Clare

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: #14	Lab Sample ID: 2000-08-0080-014
Project: 51099670607	Received: 08/03/2000 15:40
Sampled: 08/02/2000 15:35	Extracted: 08/04/2000 13:36
Matrix: Soil	QC-Batch: 2000/08/04-01.04

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	08/04/2000 13:36	
Benzene	ND	0.0050	mg/Kg	1.00	08/04/2000 13:36	
Toluene	ND	0.0050	mg/Kg	1.00	08/04/2000 13:36	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	08/04/2000 13:36	
Xylene(s)	ND	0.0050	mg/Kg	1.00	08/04/2000 13:36	
MTBE	ND	0.0050	mg/Kg	1.00	08/04/2000 13:36	
Surrogate(s)						
Trifluorotoluene	75.1	53-125	%	1.00	08/04/2000 13:36	
Trifluorotoluene-FID	73.9	53-125	%	1.00	08/04/2000 13:36	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn.: Jay Clare

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: #15	Lab Sample ID: 2000-08-0080-015
Project: 51099670607	Received: 08/03/2000 15:40
Sampled: 08/02/2000 15:39	Extracted: 08/04/2000 14:04
Matrix: Soil	QC-Batch: 2000/08/04-01.04

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	08/04/2000 14:04	
Benzene	ND	0.0050	mg/Kg	1.00	08/04/2000 14:04	
Toluene	ND	0.0050	mg/Kg	1.00	08/04/2000 14:04	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	08/04/2000 14:04	
Xylene(s)	ND	0.0050	mg/Kg	1.00	08/04/2000 14:04	
MTBE	ND	0.0050	mg/Kg	1.00	08/04/2000 14:04	
Surrogate(s)						
Trifluorotoluene	67.6	53-125	%	1.00	08/04/2000 14:04	
Trifluorotoluene-FID	54.9	53-125	%	1.00	08/04/2000 14:04	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn.: Jay Clare

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: #16	Lab Sample ID: 2000-08-0080-016
Project: 51099670607	Received: 08/03/2000 15:40
Sampled: 08/02/2000 15:45	Extracted: 08/04/2000 19:13
Matrix: Soil	QC-Batch: 2000/08/04-01.04

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	08/04/2000 19:13	
Benzene	ND	0.0050	mg/Kg	1.00	08/04/2000 14:32	
Toluene	ND	0.0050	mg/Kg	1.00	08/04/2000 14:32	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	08/04/2000 14:32	
Xylene(s)	ND	0.0050	mg/Kg	1.00	08/04/2000 14:32	
MTBE	ND	0.0050	mg/Kg	1.00	08/04/2000 14:32	
Surrogate(s)						
Trifluorotoluene	53.4	53-125	%	1.00	08/04/2000 14:32	
Trifluorotoluene-FID	57.8	53-125	%	1.00	08/04/2000 19:13	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn.: Jay Clare

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: #17	Lab Sample ID: 2000-08-0080-017
Project: 51099670607	Received: 08/03/2000 15:40
Sampled: 08/02/2000 15:50	Extracted: 08/04/2000 15:00
Matrix: Soil	QC-Batch: 2000/08/04-01.04

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	08/04/2000 15:00	
Benzene	ND	0.0050	mg/Kg	1.00	08/04/2000 15:00	
Toluene	ND	0.0050	mg/Kg	1.00	08/04/2000 15:00	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	08/04/2000 15:00	
Xylene(s)	ND	0.0050	mg/Kg	1.00	08/04/2000 15:00	
MTBE	ND	0.0050	mg/Kg	1.00	08/04/2000 15:00	
Surrogate(s)						
Trifluorotoluene	84.2	53-125	%	1.00	08/04/2000 15:00	
Trifluorotoluene-FID	67.3	53-125	%	1.00	08/04/2000 15:00	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn.: Jay Clare

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: #18	Lab Sample ID: 2000-08-0080-018
Project: 51099670607	Received: 08/03/2000 15:40
Sampled: 08/02/2000 16:00	Extracted: 08/04/2000 15:28
Matrix: Soil	QC-Batch: 2000/08/04-01.04

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	08/04/2000 15:28	
Benzene	ND	0.0050	mg/Kg	1.00	08/04/2000 15:28	
Toluene	ND	0.0050	mg/Kg	1.00	08/04/2000 15:28	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	08/04/2000 15:28	
Xylene(s)	ND	0.0050	mg/Kg	1.00	08/04/2000 15:28	
MTBE	ND	0.0050	mg/Kg	1.00	08/04/2000 15:28	
Surrogate(s)						
Trifluorotoluene	67.3	53-125	%	1.00	08/04/2000 15:28	
Trifluorotoluene-FID	56.3	53-125	%	1.00	08/04/2000 15:28	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn.: Jay Clare

Prep Method: 5030

Batch QC Report Gas/BTEX and MTBE

Method Blank	Soil	QC Batch # 2000/08/04-01.01
MB: 2000/08/04-01.01-001		Date Extracted: 08/04/2000 07:20

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	08/04/2000 07:20	
Benzene	ND	0.0050	mg/Kg	08/04/2000 07:20	
Toluene	ND	0.0050	mg/Kg	08/04/2000 07:20	
Ethyl benzene	ND	0.0050	mg/Kg	08/04/2000 07:20	
Xylene(s)	ND	0.0050	mg/Kg	08/04/2000 07:20	
MTBE	ND	0.0050	mg/Kg	08/04/2000 07:20	
Surrogate(s)					
Trifluorotoluene	93.4	53-125	%	08/04/2000 07:20	
4-Bromofluorobenzene-FID	76.6	58-124	%	08/04/2000 07:20	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn.: Jay Clare

Prep Method: 5030

Batch QC Report Gas/BTEX and MTBE

Method Blank	Soil	QC Batch # 2000/08/04-01.04
MB: 2000/08/04-01.04-001		Date Extracted: 08/04/2000 05:52

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	08/04/2000 05:52	
Benzene	ND	0.0050	mg/Kg	08/04/2000 05:52	
Toluene	ND	0.0050	mg/Kg	08/04/2000 05:52	
Ethyl benzene	ND	0.0050	mg/Kg	08/04/2000 05:52	
Xylene(s)	ND	0.0050	mg/Kg	08/04/2000 05:52	
MTBE	ND	0.0050	mg/Kg	08/04/2000 05:52	
Surrogate(s)					
Trifluorotoluene	73.8	53-125	%	08/04/2000 05:52	
Trifluorotoluene-FID	63.0	53-125	%	08/04/2000 05:52	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn.: Jay Clare

Prep Method: 5030

Batch QC Report Gas/BTEX and MTBE

Method Blank	Soil	QC Batch # 2000/08/07-01.01
MB: 2000/08/07-01.01-001		Date Extracted: 08/07/2000 06:41

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	08/07/2000 06:41	
Benzene	ND	0.0050	mg/Kg	08/07/2000 06:41	
Toluene	ND	0.0050	mg/Kg	08/07/2000 06:41	
Ethyl benzene	ND	0.0050	mg/Kg	08/07/2000 06:41	
Xylene(s)	ND	0.0050	mg/Kg	08/07/2000 06:41	
MTBE	ND	0.0050	mg/Kg	08/07/2000 06:41	
Surrogate(s)					
Trifluorotoluene	99.0	53-125	%	08/07/2000 06:41	
4-Bromofluorobenzene-FID	81.8	58-124	%	08/07/2000 06:41	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn: Jay Clare

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD)		Soil		QC Batch # 2000/08/04-01.01	
LCS:	2000/08/04-01.01-002	Extracted:	08/04/2000 07:55	Analyzed	08/04/2000 07:55
LCSD:	2000/08/04-01.01-003	Extracted:	08/04/2000 08:30	Analyzed	08/04/2000 08:30

Compound	Conc. [mg/Kg]		Exp. Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Gasoline	0.493	0.507	0.500	0.500	98.6	101.4	2.8	75-125	35		
Benzene	0.0859	0.0871	0.1000	0.1000	85.9	87.1	1.4	77-123	35		
Toluene	0.0896	0.0907	0.1000	0.1000	89.6	90.7	1.2	78-122	35		
Ethyl benzene	0.0882	0.0878	0.1000	0.1000	88.2	87.8	0.5	70-130	35		
Xylene(s)	0.265	0.266	0.300	0.300	88.3	88.7	0.5	75-125	35		
Surrogate(s)											
Trifluorotoluene	446	448	500	500	89.2	89.6		53-125			
4-Bromofluorobenzene-FI	377	402	500	500	75.4	80.4		58-124			

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn: Jay Clare

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD)	Soil	QC Batch # 2000/08/04-01.04
LCS: 2000/08/04-01.04-002	Extracted: 08/04/2000 06:19	Analyzed 08/04/2000 06:19
LCSD: 2000/08/04-01.04-003	Extracted: 08/04/2000 08:16	Analyzed 08/04/2000 08:16

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Gasoline	0.510	0.556	0.500	0.500	102.0	111.2	8.6	75-125	35		
Benzene	0.0917	0.0798	0.1000	0.1000	91.7	79.8	13.9	77-123	35		
Toluene	0.0952	0.0808	0.1000	0.1000	95.2	80.8	16.4	78-122	35		
Ethyl benzene	0.0943	0.0794	0.1000	0.1000	94.3	79.4	17.2	70-130	35		
Xylene(s)	0.277	0.229	0.300	0.300	92.3	76.3	19.0	75-125	35		
Surrogate(s)											
Trifluorotoluene	494	445	500	500	98.8	89.0		53-125			
4-Bromofluorobenzene-FI	307	333	500	500	61.4	66.6		58-124			

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn: Jay Clare

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD)

Soil

QC Batch # 2000/08/07-01.01

LCS: 2000/08/07-01.01-002

Extracted: 08/07/2000 07:15

Analyzed 08/07/2000 07:15

LCSD: 2000/08/07-01.01-003

Extracted: 08/07/2000 07:50

Analyzed 08/07/2000 07:50

Compound	Conc. [mg/Kg]		Exp. Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		[%]	Recovery	RPD	LCS
Gasoline	0.500	0.565	0.500	0.500	100.0	113.0	12.2	75-125	35		
Benzene	0.0836	0.0846	0.1000	0.1000	83.6	84.6	1.2	77-123	35		
Toluene	0.0869	0.0883	0.1000	0.1000	86.9	88.3	1.6	78-122	35		
Ethyl benzene	0.0843	0.0857	0.1000	0.1000	84.3	85.7	1.6	70-130	35		
Xylene(s)	0.255	0.258	0.300	0.300	85.0	86.0	1.2	75-125	35		
Surrogate(s)											
Trifluorotoluene	433	444	500	500	86.6	88.8		53-125			
4-Bromofluorobenzene-FI	389	408	500	500	77.8	81.6		58-124			

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn.: Jay Clare

Prep Method: 5030

Batch QC Report Gas/BTEX and MTBE

Matrix Spike (MS / MSD)

Soil

QC Batch # 2000/08/04-01.04

Sample ID: #16

Lab Sample ID: 2000-08-0080-016

MS: 2000/08/04-01.04-004 Extracted: 08/04/2000 19:41 Analyzed: 08/04/2000 19:41 Dilution: 1.0

MSD: 2000/08/04-01.04-005 Extracted: 08/04/2000 20:09 Analyzed: 08/04/2000 20:09 Dilution: 1.0

Compound	Conc. [mg/Kg]			Exp.Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD		Recovery	RPD	MS	MSD
Gasoline	0.351	0.313	ND	0.466	0.472	75.3	66.3	12.7	65-135	35		
Benzene	0.0659	0.0625	ND	0.0931	0.0943	70.8	66.3	6.6	65-135	35		
Toluene	0.0652	0.0626	ND	0.0931	0.0943	70.0	66.4	5.3	65-135	35		
Ethyl benzene	0.0650	0.0626	ND	0.0931	0.0943	69.8	66.4	5.0	65-135	35		
Xylene(s)	0.192	0.184	ND	0.279	0.283	68.8	65.0	5.7	65-135	35		
Surrogate(s)												
Trifluorotoluene	363	351		500	500	72.6	70.2		53-125			
Trifluorotoluene-FID	305	277		500	500	61.0	55.4		53-125			

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn.: Jay Clare

Prep Method: 5030

Batch QC Report Gas/BTEX and MTBE

Matrix Spike (MS / MSD)

Soil

QC Batch # 2000/08/04-01.01

Sample ID: SP-2

Lab Sample ID: 2000-08-0083-003

MS: 2000/08/04-01.01-004 Extracted: 08/04/2000 22:17 Analyzed: 08/04/2000 22:17 Dilution: 1.0

MSD: 2000/08/04-01.01-005 Extracted: 08/04/2000 22:52 Analyzed: 08/04/2000 22:52 Dilution: 1.0

Compound	Conc. [mg/Kg]			Exp.Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD		Recovery	RPD	MS	MSD
Gasoline	0.314	0.314	ND	0.465	0.471	67.5	66.7	1.2	65-135	35		
Benzene	0.0522	0.0580	ND	0.0929	0.0942	56.2	61.6	9.2	65-135	35	mso	mso
Toluene	0.0536	0.0577	ND	0.0929	0.0942	57.7	61.3	6.1	65-135	35	mso	mso
Ethyl benzene	0.0490	0.0528	ND	0.0929	0.0942	52.7	56.1	6.3	65-135	35	mso	mso
Xylene(s)	0.152	0.164	ND	0.279	0.282	54.5	58.2	6.6	65-135	35	mso	mso
Surrogate(s)												
Trifluorotoluene	269	298		500	500	53.8	59.6		53-125			
Trifluorotoluene-FID	312	314		500	500	62.4	62.8		53-125			

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0080

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn.: Jay Clare

Prep Method: 5030

Batch QC Report
Gas/BTEX and MTBE

Matrix Spike (MS / MSD)	Soil	QC Batch # 2000/08/07-01.01
Sample ID: #9		Lab Sample ID: 2000-08-0080-009
MS: 2000/08/07-01.01-004	Extracted: 08/07/2000 14:30	Analyzed: 08/07/2000 14:30 Dilution: 1.0
MSD: 2000/08/07-01.01-005	Extracted: 08/07/2000 15:04	Analyzed: 08/07/2000 15:04 Dilution: 1.0

Compound	Conc. [mg/Kg]			Exp.Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD		Recovery	RPD	MS	MSD
Gasoline	0.290	0.268	ND	0.451	0.448	64.3	59.8	7.3	65-135	35	mso	mso
Benzene	0.0458	0.0470	ND	0.0903	0.0896	50.7	52.5	3.5	65-135	35	mso	mso
Toluene	0.0487	0.0499	ND	0.0903	0.0896	53.9	55.7	3.3	65-135	35	mso	mso
Ethyl benzene	0.0461	0.0474	ND	0.0903	0.0896	51.1	52.9	3.5	65-135	35	mso	mso
Xylene(s)	0.139	0.143	ND	0.271	0.269	51.3	53.2	3.6	65-135	35	mso	mso
Surrogate(s)												
Trifluorotoluene	295	300		500	500	59.0	60.0		53-125			
Trifluorotoluene-FID	289	294		500	500	57.8	58.8		53-125			

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0196

Date: September 19, 2000

URS Greiner Woodward Clyde- Oakland

500 12th Street, Suite 200

Oakland, CA 94607-4014

Attn.: Mr. Jay Clare

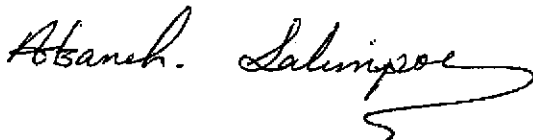
Dear Jay,

Attached is our report for your samples received on Tuesday September 12, 2000
This report has been reviewed and approved for release. Reproduction of this report
is permitted only in its entirety.

The report contains a Case Narrative detailing sample receipt and analysis.

Please note that any unused portion of the samples will be discarded after October 27, 2000
unless you have requested otherwise. We appreciate the opportunity to be of service to you.
If you have any questions, please call me at (925) 484-1919. You can also contact me via email.
My email address is: asalimpour@chromalab.com

Sincerely,



Afsaneh Salimpour

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096
CA DHS ELAP#1096

To: URS Greiner Woodward Clyde- Oakland
Attn.: Jay Clare

CASE NARRATIVE**General and Sample Comments**

We (ChromaLab, Inc.) received 11 Soil samples, on Sep 12 2000 6:30PM.

Analysis Comments and Flags by QC Batch

G/BTEX with MTBE	Soil	QC Batch#: 2000/09/18.01-02
T9-SS-27 >> MS		Lab#: 2000/09/18.01-02-004
Compound Flag(s)		
mso	MS/MSD spike recoveries were out of QC limits due to matrix interference. Precision and Accuracy were verified by LCS/LCSD.	
T9-SS-27 >> MSD		Lab#: 2000/09/18.01-02-005
mso	MS/MSD spike recoveries were out of QC limits due to matrix interference. Precision and Accuracy were verified by LCS/LCSD.	
Diesel	Soil	QC Batch#: 2000/09/13.03-10
T9-SS-21		Lab#: 2000-09-0196-003
ndp	Hydrocarbon reported does not match the pattern of our Diesel standard	
T9-SS-26		Lab#: 2000-09-0196-008
ndp	Hydrocarbon reported does not match the pattern of our Diesel standard	
G/BTEX with MTBE	Soil	QC Batch#: 2000/09/18.01-02
T9-SS-20		Lab#: 2000-09-0196-002
sl	Surrogate recoveries were lower than QC limit due to matrix interference, confirmed by reanalysis.	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0196

Diesel

URS Greiner Woodward Clyde- Oakland

✉ 500 12th Street, Suite 200
Oakland, CA 94607-4014

Attn: Jay Clare

Phone: (510) 874-3027 Fax: (510) 874-3268

Project #: 510996706007

Project:

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
T9-SS-19	Soil	09/12/2000 16:18	1
T9-SS-20	Soil	09/12/2000 16:21	2
T9-SS-21	Soil	09/12/2000 16:24	3
T9-SS-22	Soil	09/12/2000 16:29	4
T9-SS-23	Soil	09/12/2000 16:27	5
T9-SS-24	Soil	09/12/2000 16:36	6
T9-SS-25	Soil	09/12/2000 16:33	7
T9-SS-26	Soil	09/12/2000 16:48	8
T9-SS-27	Soil	09/12/2000 16:38	9
T9-SS-28	Soil	09/12/2000 16:43	10
T9-SS-29	Soil	09/12/2000 16:45	11

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0196

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8015M

Attn.: Jay Clare

Prep Method: 3550/8015M

Diesel

Sample ID: T9-SS-19	Lab Sample ID: 2000-09-0196-001
Project: 510996706007	Received: 09/12/2000 18:30
Sampled: 09/12/2000 16:18	Extracted: 09/13/2000 12:59
Matrix: Soil	QC-Batch: 2000/09/13-03.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	09/15/2000 02:38	
<i>Surrogate(s)</i> o-Terphenyl	76.4	60-130	%	1.00	09/15/2000 02:38	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0196

To: URS Greiner Woodward Clyde- Oakland
Attn.: Jay Clare

Test Method: 8015M
Prep Method: 3550/8015M

Diesel

Sample ID: T9-SS-20	Lab Sample ID: 2000-09-0196-002
Project: 510996706007	Received: 09/12/2000 18:30
Sampled: 09/12/2000 16:21	Extracted: 09/13/2000 12:59
Matrix: Soil	QC-Batch: 2000/09/13-03.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	09/15/2000 03:17	
<i>Surrogate(s)</i> o-Terphenyl	68.0	60-130	%	1.00	09/15/2000 03:17	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0196

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8015M

Attn.: Jay Clare

Prep Method: 3550/8015M

Diesel

Sample ID: T9-SS-21	Lab Sample ID: 2000-09-0196-003
Project: 510996706007	Received: 09/12/2000 18:30
Sampled: 09/12/2000 16:24	Extracted: 09/13/2000 12:59
Matrix: Soil	QC-Batch: 2000/09/13-03.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	1.9	1.0	mg/Kg	1.00	09/15/2000 03:56	ndp
<i>Surrogate(s)</i> o-Terphenyl	78.6	60-130	%	1.00	09/15/2000 03:56	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0196

To: **URS Greiner Woodward Clyde- Oakland**
Attn.: Jay Clare

Test Method: 8015M
Prep Method: 3550/8015M

Diesel

Sample ID: T9-SS-22	Lab Sample ID: 2000-09-0196-004
Project: 510996706007	Received: 09/12/2000 18:30
Sampled: 09/12/2000 16:29	Extracted: 09/13/2000 12:59
Matrix: Soil	QC-Batch: 2000/09/13-03.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	09/15/2000 04:34	
<i>Surrogate(s)</i> o-Terphenyl	78.6	60-130	%	1.00	09/15/2000 04:34	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0196

To: URS Greiner Woodward Clyde- Oakland
Attn.: Jay Clare

Test Method: 8015M
Prep Method: 3550/8015M

Diesel

Sample ID: T9-SS-23	Lab Sample ID: 2000-09-0196-005
Project: 510996706007	Received: 09/12/2000 18:30
Sampled: 09/12/2000 16:27	Extracted: 09/13/2000 12:59
Matrix: Soil	QC-Batch: 2000/09/13-03.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	09/15/2000 05:13	
<i>Surrogate(s)</i> o-Terphenyl	77.9	60-130	%	1.00	09/15/2000 05:13	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0196

To: **URS Greiner Woodward Clyde- Oakland**
Attn.: Jay Clare

Test Method: 8015M
Prep Method: 3550/8015M

Diesel

Sample ID: T9-SS-24	Lab Sample ID: 2000-09-0196-006
Project: 510996706007	Received: 09/12/2000 18:30
Sampled: 09/12/2000 16:36	Extracted: 09/13/2000 12:59
Matrix: Soil	QC-Batch: 2000/09/13-03.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	09/15/2000 05:51	
Surrogate(s) o-Terphenyl	73.3	60-130	%	1.00	09/15/2000 05:51	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0196

To: **URS Greiner Woodward Clyde- Oakland**
Attn.: Jay Clare

Test Method: 8015M
Prep Method: 3550/8015M

Diesel

Sample ID: T9-SS-25	Lab Sample ID: 2000-09-0196-007
Project: 510996706007	Received: 09/12/2000 18:30
Sampled: 09/12/2000 16:33	Extracted: 09/13/2000 12:59
Matrix: Soil	QC-Batch: 2000/09/13-03.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	09/15/2000 06:30	
Surrogate(s) o-Terphenyl	77.1	60-130	%	1.00	09/15/2000 06:30	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0196

To: **URS Greiner Woodward Clyde- Oakland**
Attn.: Jay Clare

Test Method: 8015M
Prep Method: 3550/8015M

Diesel

Sample ID: T9-SS-26	Lab Sample ID: 2000-09-0196-008
Project: 510996706007	Received: 09/12/2000 18:30
Sampled: 09/12/2000 16:48	Extracted: 09/13/2000 12:59
Matrix: Soil	QC-Batch: 2000/09/13-03.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	1.5	1.0	mg/Kg	1.00	09/15/2000 09:41	ndp
<i>Surrogate(s)</i> o-Terphenyl	77.4	60-130	%	1.00	09/15/2000 09:41	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0196

To: **URS Greiner Woodward Clyde- Oakland**
Attn.: Jay Clare

Test Method: 8015M
Prep Method: 3550/8015M

Diesel

Sample ID: T9-SS-27	Lab Sample ID: 2000-09-0196-009
Project: 510996706007	Received: 09/12/2000 18:30
Sampled: 09/12/2000 16:38	Extracted: 09/13/2000 12:59
Matrix: Soil	QC-Batch: 2000/09/13-03.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	09/15/2000 10:20	
Surrogate(s) o-Terphenyl	73.6	60-130	%	1.00	09/15/2000 10:20	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0196

To: URS Greiner Woodward Clyde- Oakland
Attn.: Jay Clare

Test Method: 8015M
Prep Method: 3550/8015M

Diesel

Sample ID: T9-SS-28	Lab Sample ID: 2000-09-0196-010
Project: 510996706007	Received: 09/12/2000 18:30
Sampled: 09/12/2000 16:43	Extracted: 09/13/2000 12:59
Matrix: Soil	QC-Batch: 2000/09/13-03.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	09/15/2000 10:58	
<i>Surrogate(s)</i> o-Terphenyl	80.6	60-130	%	1.00	09/15/2000 10:58	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0196

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8015M

Attn.: Jay Clare

Prep Method: 3550/8015M

Diesel

Sample ID: T9-SS-29	Lab Sample ID: 2000-09-0196-011
Project: 510996706007	Received: 09/12/2000 18:30
Sampled: 09/12/2000 16:45	Extracted: 09/13/2000 12:59
Matrix: Soil	QC-Batch: 2000/09/13-03.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	09/15/2000 11:36	
<i>Surrogate(s)</i> o-Terphenyl	74.7	60-130	%	1.00	09/15/2000 11:36	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0196

To: URS Greiner Woodward Clyde- Oakland
Attn.: Jay Clare

Test Method: 8015M
Prep Method: 3550/8015M

Batch QC Report Diesel

Method Blank	Soil	QC Batch # 2000/09/13-03.10
MB: 2000/09/13-03.10-001		Date Extracted: 09/13/2000 12:59

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	1	mg/Kg	09/14/2000 20:36	
Surrogate(s) o-Terphenyl	82.5	60-130	%	09/14/2000 20:36	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0196

To: **URS Greiner Woodward Clyde- Oakland**

Test Method: 8015M

Attn: Jay Clare

Prep Method: 3550/8015M

Batch QC Report

Diesel

Laboratory Control Spike (LCS/LCSD)	Soil	QC Batch # 2000/09/13-03.10
LCS: 2000/09/13-03.10-002	Extracted: 09/13/2000 12:59	Analyzed 09/15/2000 00:04
LCSD: 2000/09/13-03.10-003	Extracted: 09/13/2000 12:59	Analyzed 09/15/2000 00:43

Compound	Conc. [mg/Kg]		Exp. Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Diesel	31.0	31.6	41.7	41.7	74.3	75.8	2.0	60-130	25		
Surrogate(s) o-Terphenyl	19.5	19.8	20.0	20.0	97.5	99.0		60-130			

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0196

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8015M

Attn.: Jay Clare

Prep Method: 3550/8015M

Batch QC Report

Diesel

Matrix Spike (MS / MSD)

Soil

QC Batch # 2000/09/13-03.10

Sample ID: T9-SS-19

Lab Sample ID: 2000-09-0196-001

MS: 2000/09/13-03.10-004 Extracted: 09/13/2000 12:59 Analyzed: 09/14/2000 22:47 Dilution: 1.0

MSD: 2000/09/13-03.10-005 Extracted: 09/13/2000 12:59 Analyzed: 09/14/2000 23:25 Dilution: 1.0

Compound	Conc. [mg/Kg]			Exp. Conc. [mg/Kg]		Recovery [%] RPD			Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	RPD [%]	Recovery	RPD	MS	MSD
Diesel	29.0	31.2	ND	41.6	41.6	69.7	75.0	7.3	60-130	25		
Surrogate(s) o-Terphenyl	18.1	19.7		20.0	20.0	90.5	98.5		60-130			

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Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

To: URS Greiner Woodward Clyde- Oakland

Attn: Jay Clare

Test Method: 8015M

Prep Method: 3550/8015M

Legend & Notes

Diesel

Analyte Flags

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

Gas/BTEX and MTBE

URS Greiner Woodward Clyde- Oakland	✉ 500 12th Street, Suite 200 Oakland, CA 94607-4014
Attn: Jay Clare	Phone: (510) 874-3027 Fax: (510) 874-3268
Project #: 510996706007	Project:

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
T9-SS-19	Soil	09/12/2000 16:18	1
T9-SS-20	Soil	09/12/2000 16:21	2
T9-SS-21	Soil	09/12/2000 16:24	3
T9-SS-22	Soil	09/12/2000 16:29	4
T9-SS-23	Soil	09/12/2000 16:27	5
T9-SS-24	Soil	09/12/2000 16:36	6
T9-SS-25	Soil	09/12/2000 16:33	7
T9-SS-26	Soil	09/12/2000 16:48	8
T9-SS-27	Soil	09/12/2000 16:38	9
T9-SS-28	Soil	09/12/2000 16:43	10
T9-SS-29	Soil	09/12/2000 16:45	11

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0196

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn.: Jay Clare

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: T9-SS-19	Lab Sample ID: 2000-09-0196-001
Project: 510996706007	Received: 09/12/2000 18:30
Sampled: 09/12/2000 16:18	Extracted: 09/18/2000 16:51
Matrix: Soil	QC-Batch: 2000/09/18-01.02

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	09/18/2000 16:51	
Benzene	ND	0.0050	mg/Kg	1.00	09/18/2000 16:51	
Toluene	ND	0.0050	mg/Kg	1.00	09/18/2000 16:51	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	09/18/2000 16:51	
Xylene(s)	ND	0.0050	mg/Kg	1.00	09/18/2000 16:51	
MTBE	ND	0.0050	mg/Kg	1.00	09/18/2000 16:51	
Surrogate(s)						
Trifluorotoluene	58.9	53-125	%	1.00	09/18/2000 16:51	
Trifluorotoluene-FID	56.7	53-125	%	1.00	09/18/2000 16:51	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0196

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn.: Jay Clare

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: T9-SS-20	Lab Sample ID: 2000-09-0196-002
Project: 510996706007	Received: 09/12/2000 18:30
Sampled: 09/12/2000 16:21	Extracted: 09/18/2000 17:24
Matrix: Soil	QC-Batch: 2000/09/18-01.02

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	09/18/2000 17:24	
Benzene	ND	0.0050	mg/Kg	1.00	09/18/2000 17:24	
Toluene	ND	0.0050	mg/Kg	1.00	09/18/2000 17:24	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	09/18/2000 17:24	
Xylene(s)	ND	0.0050	mg/Kg	1.00	09/18/2000 17:24	
MTBE	ND	0.0050	mg/Kg	1.00	09/18/2000 17:24	
Surrogate(s)						
Trifluorotoluene	50.3	53-125	%	1.00	09/18/2000 17:24	sl
4-Bromofluorobenzene-FID	49.5	58-124	%	1.00	09/18/2000 17:24	sl

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0196

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn.: Jay Clare

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: T9-SS-21	Lab Sample ID: 2000-09-0196-003
Project: 510996706007	Received: 09/12/2000 18:30
Sampled: 09/12/2000 16:24	Extracted: 09/18/2000 17:56
Matrix: Soil	QC-Batch: 2000/09/18-01.02

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	09/18/2000 17:56	
Benzene	ND	0.0050	mg/Kg	1.00	09/18/2000 17:56	
Toluene	ND	0.0050	mg/Kg	1.00	09/18/2000 17:56	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	09/18/2000 17:56	
Xylene(s)	ND	0.0050	mg/Kg	1.00	09/18/2000 17:56	
MTBE	ND	0.0050	mg/Kg	1.00	09/18/2000 17:56	
Surrogate(s)						
Trifluorotoluene	64.8	53-125	%	1.00	09/18/2000 17:56	
Trifluorotoluene-FID	57.9	53-125	%	1.00	09/18/2000 17:56	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0196

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn.: Jay Clare

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: T9-SS-22	Lab Sample ID: 2000-09-0196-004
Project: 510996706007	Received: 09/12/2000 18:30
Sampled: 09/12/2000 16:29	Extracted: 09/18/2000 18:28
Matrix: Soil	QC-Batch: 2000/09/18-01.02

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	09/18/2000 18:28	
Benzene	ND	0.0050	mg/Kg	1.00	09/18/2000 18:28	
Toluene	ND	0.0050	mg/Kg	1.00	09/18/2000 18:28	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	09/18/2000 18:28	
Xylene(s)	ND	0.0050	mg/Kg	1.00	09/18/2000 18:28	
MTBE	ND	0.0050	mg/Kg	1.00	09/18/2000 18:28	
Surrogate(s)						
Trifluorotoluene	68.6	53-125	%	1.00	09/18/2000 18:28	
Trifluorotoluene-FID	61.0	53-125	%	1.00	09/18/2000 18:28	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0196

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn.: Jay Clare

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: T9-SS-23	Lab Sample ID: 2000-09-0196-005
Project: 510996706007	Received: 09/12/2000 18:30
Sampled: 09/12/2000 16:27	Extracted: 09/19/2000 11:48
Matrix: Soil	QC-Batch: 2000/09/19-01.02

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	09/19/2000 11:48	
Benzene	ND	0.0050	mg/Kg	1.00	09/19/2000 11:48	
Toluene	ND	0.0050	mg/Kg	1.00	09/19/2000 11:48	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	09/19/2000 11:48	
Xylene(s)	ND	0.0050	mg/Kg	1.00	09/19/2000 11:48	
MTBE	ND	0.0050	mg/Kg	1.00	09/19/2000 11:48	
Surrogate(s)						
Trifluorotoluene	63.7	53-125	%	1.00	09/19/2000 11:48	
Trifluorotoluene-FID	65.8	53-125	%	1.00	09/19/2000 11:48	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0196

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn.: Jay Clare

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: T9-SS-24	Lab Sample ID: 2000-09-0196-006
Project: 510996706007	Received: 09/12/2000 18:30
Sampled: 09/12/2000 16:36	Extracted: 09/18/2000 19:32
Matrix: Soil	QC-Batch: 2000/09/18-01.02

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	09/18/2000 19:32	
Benzene	ND	0.0050	mg/Kg	1.00	09/18/2000 19:32	
Toluene	ND	0.0050	mg/Kg	1.00	09/18/2000 19:32	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	09/18/2000 19:32	
Xylene(s)	ND	0.0050	mg/Kg	1.00	09/18/2000 19:32	
MTBE	ND	0.0050	mg/Kg	1.00	09/18/2000 19:32	
Surrogate(s)						
Trifluorotoluene	72.1	53-125	%	1.00	09/18/2000 19:32	
4-Bromofluorobenzene-FID	69.1	58-124	%	1.00	09/18/2000 19:32	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0196

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn.: Jay Clare

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: T9-SS-25	Lab Sample ID: 2000-09-0196-007
Project: 510996706007	Received: 09/12/2000 18:30
Sampled: 09/12/2000 16:33	Extracted: 09/18/2000 20:03
Matrix: Soil	QC-Batch: 2000/09/18-01.02

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	09/18/2000 20:03	
Benzene	ND	0.0050	mg/Kg	1.00	09/18/2000 20:03	
Toluene	ND	0.0050	mg/Kg	1.00	09/18/2000 20:03	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	09/18/2000 20:03	
Xylene(s)	ND	0.0050	mg/Kg	1.00	09/18/2000 20:03	
MTBE	ND	0.0050	mg/Kg	1.00	09/18/2000 20:03	
<i>Surrogate(s)</i>						
Trifluorotoluene	57.1	53-125	%	1.00	09/18/2000 20:03	
Trifluorotoluene-FID	53.4	53-125	%	1.00	09/18/2000 20:03	

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Printed on: 09/21/2000 08:20

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0196

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn.: Jay Clare

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: T9-SS-26	Lab Sample ID: 2000-09-0196-008
Project: 510996706007	Received: 09/12/2000 18:30
Sampled: 09/12/2000 16:48	Extracted: 09/18/2000 20:35
Matrix: Soil	QC-Batch: 2000/09/18-01.02

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	09/18/2000 20:35	
Benzene	ND	0.0050	mg/Kg	1.00	09/18/2000 20:35	
Toluene	ND	0.0050	mg/Kg	1.00	09/18/2000 20:35	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	09/18/2000 20:35	
Xylene(s)	ND	0.0050	mg/Kg	1.00	09/18/2000 20:35	
MTBE	ND	0.0050	mg/Kg	1.00	09/18/2000 20:35	
Surrogate(s)						
Trifluorotoluene	65.6	53-125	%	1.00	09/18/2000 20:35	
Trifluorotoluene-FID	60.5	53-125	%	1.00	09/18/2000 20:35	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0196

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn.: Jay Clare

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: T9-SS-27	Lab Sample ID: 2000-09-0196-009
Project: 510996706007	Received: 09/12/2000 18:30
Sampled: 09/12/2000 16:38	Extracted: 09/18/2000 22:10
Matrix: Soil	QC-Batch: 2000/09/18-01.02

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	09/18/2000 22:10	
Benzene	ND	0.0050	mg/Kg	1.00	09/18/2000 22:10	
Toluene	ND	0.0050	mg/Kg	1.00	09/18/2000 22:10	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	09/18/2000 22:10	
Xylene(s)	ND	0.0050	mg/Kg	1.00	09/18/2000 22:10	
MTBE	ND	0.0050	mg/Kg	1.00	09/18/2000 22:10	
Surrogate(s)						
Trifluorotoluene	56.3	53-125	%	1.00	09/18/2000 22:10	
Trifluorotoluene-FID	59.7	53-125	%	1.00	09/18/2000 22:10	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0196

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn.: Jay Clare

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: T9-SS-28	Lab Sample ID: 2000-09-0196-010
Project: 510996706007	Received: 09/12/2000 18:30
Sampled: 09/12/2000 16:43	Extracted: 09/19/2000 12:20
Matrix: Soil	QC-Batch: 2000/09/19-01.02

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	09/19/2000 12:20	
Benzene	ND	0.0050	mg/Kg	1.00	09/19/2000 12:20	
Toluene	ND	0.0050	mg/Kg	1.00	09/19/2000 12:20	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	09/19/2000 12:20	
Xylene(s)	ND	0.0050	mg/Kg	1.00	09/19/2000 12:20	
MTBE	ND	0.0050	mg/Kg	1.00	09/19/2000 12:20	
Surrogate(s)						
Trifluorotoluene	67.0	53-125	%	1.00	09/19/2000 12:20	
Trifluorotoluene-FID	66.1	53-125	%	1.00	09/19/2000 12:20	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0196

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn.: Jay Clare

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: T9-SS-29	Lab Sample ID: 2000-09-0196-011
Project: 510996706007	Received: 09/12/2000 18:30
Sampled: 09/12/2000 16:45	Extracted: 09/19/2000 12:51
Matrix: Soil	QC-Batch: 2000/09/19-01.02

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	09/19/2000 12:51	
Benzene	ND	0.0050	mg/Kg	1.00	09/19/2000 12:51	
Toluene	ND	0.0050	mg/Kg	1.00	09/19/2000 12:51	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	09/19/2000 12:51	
Xylene(s)	ND	0.0050	mg/Kg	1.00	09/19/2000 12:51	
MTBE	ND	0.0050	mg/Kg	1.00	09/19/2000 12:51	
Surrogate(s)						
Trifluorotoluene	78.2	53-125	%	1.00	09/19/2000 12:51	
4-Bromofluorobenzene-FID	67.1	58-124	%	1.00	09/19/2000 12:51	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0196

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8015M
8020

Attn.: Jay Clare

Prep Method: 5030

Batch QC Report
Gas/BTEX and MTBE

Method Blank	Soil	QC Batch # 2000/09/18-01.02
MB: 2000/09/18-01.02-001		Date Extracted: 09/18/2000 08:19

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	09/18/2000 08:19	
Benzene	ND	0.0050	mg/Kg	09/18/2000 08:19	
Toluene	ND	0.0050	mg/Kg	09/18/2000 08:19	
Ethyl benzene	ND	0.0050	mg/Kg	09/18/2000 08:19	
Xylene(s)	ND	0.0050	mg/Kg	09/18/2000 08:19	
MTBE	ND	0.0050	mg/Kg	09/18/2000 08:19	
Surrogate(s)					
Trifluorotoluene	88.4	53-125	%	09/18/2000 08:19	
4-Bromofluorobenzene-FID	79.6	58-124	%	09/18/2000 08:19	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0196

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8015M
8020

Attn.: Jay Clare

Prep Method: 5030

Batch QC Report Gas/BTEX and MTBE

Method Blank	Soil	QC Batch # 2000/09/19-01.02
MB: 2000/09/19-01.02-001		Date Extracted: 09/19/2000 06:16

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	09/19/2000 06:16	
Benzene	ND	0.0050	mg/Kg	09/19/2000 06:16	
Toluene	ND	0.0050	mg/Kg	09/19/2000 06:16	
Ethyl benzene	ND	0.0050	mg/Kg	09/19/2000 06:16	
Xylene(s)	ND	0.0050	mg/Kg	09/19/2000 06:16	
MTBE	ND	0.0050	mg/Kg	09/19/2000 06:16	
Surrogate(s)					
Trifluorotoluene	88.6	53-125	%	09/19/2000 06:16	
4-Bromofluorobenzene-FID	84.4	58-124	%	09/19/2000 06:16	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0196

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8015M
8020

Attn: Jay Clare

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD)

Soil

QC Batch # 2000/09/18-01.02

LCS: 2000/09/18-01.02-002

Extracted: 09/18/2000 09:02

Analyzed 09/18/2000 09:02

LCSD: 2000/09/18-01.02-003

Extracted: 09/18/2000 09:34

Analyzed 09/18/2000 09:34

Compound	Conc. [mg/Kg]		Exp. Conc. [mg/Kg]		Recovery [%]			RPD		Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	RPD	Recovery	RPD	LCS	LCSD		
Gasoline	0.616	0.482	0.500	0.500	123.2	96.4	24.4	75-125	35				
Benzene	0.111	0.102	0.1000	0.1000	111.0	102.0	8.5	77-123	35				
Toluene	0.107	0.0993	0.1000	0.1000	107.0	99.3	7.5	78-122	35				
Ethyl benzene	0.101	0.0955	0.1000	0.1000	101.0	95.5	5.6	70-130	35				
Xylene(s)	0.287	0.274	0.300	0.300	95.7	91.3	4.7	75-125	35				
Surrogate(s)													
Trifluorotoluene	487	454	500	500	97.4	90.8		53-125					
4-Bromofluorobenzene-FI	541	432	500	500	108.2	86.4		58-124					

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0196

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8015M
8020

Attn: Jay Clare

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD)		Soil		QC Batch # 2000/09/19-01.02	
LCS:	2000/09/19-01.02-002	Extracted:	09/19/2000 06:47	Analyzed	09/19/2000 06:47
LCSD:	2000/09/19-01.02-003	Extracted:	09/19/2000 07:18	Analyzed	09/19/2000 07:18

Compound	Conc. [mg/Kg]		Exp. Conc. [mg/Kg]		Recovery [%]			RPD		Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD		
Gasoline	0.496	0.484	0.500	0.500	99.2	96.8	2.4	75-125	35				
Benzene	0.107	0.102	0.1000	0.1000	107.0	102.0	4.8	77-123	35				
Toluene	0.104	0.0988	0.1000	0.1000	104.0	98.8	5.1	78-122	35				
Ethyl benzene	0.0998	0.0955	0.1000	0.1000	99.8	95.5	4.4	70-130	35				
Xylene(s)	0.284	0.272	0.300	0.300	94.7	90.7	4.3	75-125	35				
Surrogate(s)													
Trifluorotoluene	498	460	500	500	99.6	92.0		53-125					
4-Bromofluorobenzene-FI	454	445	500	500	90.8	89.0		58-124					

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0196

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8015M
8020

Attn.: Jay Clare

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Matrix Spike (MS / MSD)

Soil

QC Batch # 2000/09/18-01.02

Sample ID: T9-SS-27

Lab Sample ID: 2000-09-0196-009

MS: 2000/09/18-01.02-004 Extracted: 09/18/2000 22:41 Analyzed: 09/18/2000 22:41 Dilution: 1.0

MSD: 2000/09/18-01.02-005 Extracted: 09/18/2000 23:13 Analyzed: 09/18/2000 23:13 Dilution: 1.0

Compound	Conc. [mg/Kg]			Exp. Conc. [mg/Kg]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD		Recovery	RPD	MS	MSD
Gasoline	0.353	0.340	ND	0.478	0.485	73.8	70.1	5.1	65-135	35		
Benzene	0.0662	0.0613	ND	0.0956	0.0971	69.2	63.1	9.2	65-135	35		mso
Toluene	0.0641	0.0592	ND	0.0956	0.0971	67.1	61.0	9.5	65-135	35		mso
Ethyl benzene	0.0629	0.0589	ND	0.0956	0.0971	65.8	60.7	8.1	65-135	35		mso
Xylene(s)	0.179	0.170	ND	0.287	0.291	62.4	58.4	6.6	65-135	35	mso	mso
Surrogate(s)												
Trifluorotoluene	323	281		500	500	64.6	56.2		53-125			
4-Bromofluorobenzene-F	308	312		500	500	61.6	62.4		58-124			

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0196

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8015M

8020

Attn.: Jay Clare

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Matrix Spike (MS / MSD)	Soil	QC Batch # 2000/09/19-01.02
Sample ID: DL-8		Lab Sample ID: 2000-09-0342-004
MS: 2000/09/19-01.02-004	Extracted: 09/19/2000 22:27	Analyzed: 09/19/2000 22:27 Dilution: 1.0
MSD: 2000/09/19-01.02-005	Extracted: 09/19/2000 22:59	Analyzed: 09/19/2000 22:59 Dilution: 1.0

Compound	Conc. [mg/Kg]			Exp. Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD		Recovery	RPD	MS	MSD
Gasoline	0.322	0.404	ND	0.482	0.473	66.8	85.4	24.4	65-135	35		
Benzene	0.0709	0.0876	ND	0.0963	0.0945	73.6	92.7	23.0	65-135	35		
Toluene	0.0691	0.0838	ND	0.0963	0.0945	71.8	88.7	21.1	65-135	35		
Ethyl benzene	0.0679	0.0805	ND	0.0963	0.0945	70.5	85.2	18.9	65-135	35		
Xylene(s)	0.197	0.230	ND	0.289	0.284	68.2	81.0	17.2	65-135	35		
Surrogate(s)												
Trifluorotoluene	649	727		500	500	129.8	145.4		53-125		mso	mso
4-Bromofluorobenzene-F	412	659		500	500	82.4	131.8		58-124			mso

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To: URS Greiner Woodward Clyde- Oakland

Test Method: 8015M
8020

Attn: Jay Clare

Prep Method: 5030

Legend & Notes

Gas/BTEX and MTBE

QC Compound Flags

mso

MS/MSD spike recoveries were out of QC limits due to matrix interference. Precision and Accuracy were verified by LCS/LCSD.

Analyte Flags

sl

Surrogate recoveries were lower than QC limit due to matrix interference, confirmed by reanalysis.

2000-09-0196

54418

URS Greiner Woodward Clyde

500 12th Street, Suite 200, Oakland, CA 94607-4014
510.893.3600

Chain of Custody Record

PROJECT NO.
S109167 06007

SAMPLERS: (Signature)

S. Lwengo

ANALYSES

Number of Containers

REMARKS
(Sample preservation, handling procedures, etc.)

DATE	TIME	SAMPLE NUMBER	Sample Matrix (Soil, Water, Air)	ANALYSES				Number of Containers	REMARKS
				EPA Method 845	EPA Method Diesel	EPA Method BTEX	EPA Method MTBE		
9/12/00	1618	T9-SS-19	S	X	X	X	X	1	PLEASE SEND RESULTS TO JAY CLARE
	1621	T9-SS-20	S	X	X	X	X	1	
	1624	T9-SS-21	S	X	X	X	X	1	
	1629	T9-SS-22	S	X	X	X	X	1	
	1627	T9-SS-23	S	X	X	X	X	1	
	1636	T9-SS-24	S	X	X	X	X	1	
	1633	T9-SS-25	S	X	X	X	X	1	
	1648	T9-SS-26	S	X	X	X	X	1	
	1638	T9-SS-27	S	X	X	X	X	1	
	1643	T9-SS-28	S	X	X	X	X	1	
✓	1645	T9-SS-29	S	X	X	X	X	1	

5 DAY TAT

4.70C

TOTAL NUMBER OF CONTAINERS 11

RELINQUISHED BY: (Signature)

S. Lwengo

DATE/TIME

9/16/00

RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

METHOD OF SHIPMENT:

S. Lwengo

SHIPPED BY: (Signature)

COURIER: (Signature)

RECEIVED FOR LAB BY (Signature)

Denise Harrington

DATE/TIME

9/16/00 @ 1830

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0259

Date: August 22, 2000

URS Greiner Woodward Clyde- Oakland

500 12th Street, Suite 200

Oakland, CA 94607-4014

Attn.: Mr. Jay Clare

Dear Jay,

Attached is our report for your samples received on Friday August 11, 2000

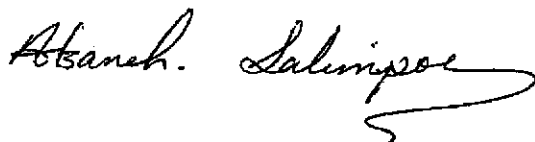
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after September 25, 2000 unless you have requested otherwise. We appreciate the opportunity to be of service to you.

If you have any questions, please call me at (925) 484-1919. You can also contact me via email.

My email address is: asalimpour@chromalab.com

Sincerely,



Afsaneh Salimpour

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0259

Diesel

URS Greiner Woodward Clyde- Oakland	☒	500 12th Street, Suite 200 Oakland, CA 94607-4014
Attn: Jay Clare		Phone: (510) 874-3027 Fax: (510) 874-3268
Project #: 51099670607		Project:

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
#1	Soil	08/10/2000 11:00	1

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0259

To: URS Greiner Woodward Clyde- Oakland
Attn.: Jay Clare

Test Method: 8015M
Prep Method: 3550/8015M

Diesel

Sample ID: #1	Lab Sample ID: 2000-08-0259-001
Project: 51099670607	Received: 08/11/2000 17:40
Sampled: 08/10/2000 11:00	Extracted: 08/14/2000 08:59
Matrix: Soil	QC-Batch: 2000/08/14-02.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	180	1.0	mg/Kg	1.00	08/15/2000 13:38	
<i>Surrogate(s)</i> o-Terphenyl	75.5	60-130	%	1.00	08/15/2000 13:38	

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Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0259

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8015M

Attn.: Jay Clare

Prep Method: 3550/8015M

Batch QC Report

Diesel

Method Blank	Soil	QC Batch # 2000/08/14-02.10
MB: 2000/08/14-02.10-001		Date Extracted: 08/14/2000 08:59

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	1	mg/Kg	08/14/2000 22:53	
<i>Surrogate(s)</i> o-Terphenyl	80.0	60-130	%	08/14/2000 22:53	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0259

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8015M

Attn: Jay Clare

Prep Method: 3550/8015M

Batch QC Report

Diesel

Laboratory Control Spike (LCS/LCSD)

Soil

QC Batch # 2000/08/14-02.10

LCS: 2000/08/14-02.10-002

Extracted: 08/14/2000 08:59

Analyzed 08/14/2000 22:53

LCSD: 2000/08/14-02.10-003

Extracted: 08/14/2000 08:59

Analyzed 08/14/2000 23:31

Compound	Conc. [mg/Kg]		Exp. Conc. [mg/Kg]		Recovery [%]			RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]		Recovery	RPD	LCS	LCSD
Diesel	31.5	29.5	41.7	41.7	75.5	70.7	6.6	60-130	25			
Surrogate(s) o-Terphenyl	18.7	17.3	20.0	20.0	93.5	86.5		60-130				

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

Gas/BTEX and MTBE

URS Greiner Woodward Clyde- Oakland	✉ 500 12th Street, Suite 200 Oakland, CA 94607-4014
Attn: Jay Clare	Phone: (510) 874-3027 Fax: (510) 874-3268
Project #: 51099670607	Project:

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
#1	Soil	08/10/2000 11:00	1

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0259

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn.: Jay Clare

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: #1	Lab Sample ID: 2000-08-0259-001
Project: 51099670607	Received: 08/11/2000 17:40
Sampled: 08/10/2000 11:00	Extracted: 08/21/2000 18:46
Matrix: Soil	QC-Batch: 2000/08/21-01.02

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	1.6	1.0	mg/Kg	1.00	08/21/2000 18:46	g
Benzene	ND	0.0050	mg/Kg	1.00	08/21/2000 18:46	
Toluene	ND	0.0050	mg/Kg	1.00	08/21/2000 18:46	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	08/21/2000 18:46	
Xylene(s)	ND	0.0050	mg/Kg	1.00	08/21/2000 18:46	
MTBE	ND	0.0050	mg/Kg	1.00	08/21/2000 18:46	
Surrogate(s)						
Trifluorotoluene	68.2	53-125	%	1.00	08/21/2000 18:46	
4-Bromofluorobenzene-FID	106.4	58-124	%	1.00	08/21/2000 18:46	

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0259

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8015M
8020

Attn.: Jay Clare

Prep Method: 5030

Batch QC Report Gas/BTEX and MTBE

Method Blank	Soil	QC Batch # 2000/08/21-01.02
MB: 2000/08/21-01.02-001		Date Extracted: 08/21/2000 07:47

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	08/21/2000 07:47	
Benzene	ND	0.0050	mg/Kg	08/21/2000 07:47	
Toluene	ND	0.0050	mg/Kg	08/21/2000 07:47	
Ethyl benzene	ND	0.0050	mg/Kg	08/21/2000 07:47	
Xylene(s)	ND	0.0050	mg/Kg	08/21/2000 07:47	
MTBE	ND	0.0050	mg/Kg	08/21/2000 07:47	
Surrogate(s)					
Trifluorotoluene	91.6	53-125	%	08/21/2000 07:47	
4-Bromofluorobenzene-FID	96.8	58-124	%	08/21/2000 07:47	

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

Printed on: 08/22/2000 11:59

Page 3 of 5

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0259

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8015M
8020

Attn: Jay Clare

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD)		Soil		QC Batch # 2000/08/21-01.02	
LCS:	2000/08/21-01.02-002	Extracted:	08/21/2000 08:50	Analyzed	08/21/2000 08:50
LCSD:	2000/08/21-01.02-003	Extracted:	08/21/2000 08:50	Analyzed	08/21/2000 08:50

Compound	Conc. [mg/Kg]		Exp. Conc. [mg/Kg]		Recovery [%]			RPD		Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	RPD [%]	Recovery	RPD	LCS	LCSD		
Gasoline	0.583	0.574	0.500	0.500	116.6	114.8	1.6	75-125	35				
Benzene	0.0950	0.0912	0.1000	0.1000	95.0	91.2	4.1	77-123	35				
Toluene	0.0883	0.0848	0.1000	0.1000	88.3	84.8	4.0	78-122	35				
Ethyl benzene	0.0894	0.0862	0.1000	0.1000	89.4	86.2	3.6	70-130	35				
Xylene(s)	0.260	0.250	0.300	0.300	86.7	83.3	4.0	75-125	35				
Surrogate(s)													
Trifluorotoluene	452	424	500	500	90.4	84.8		53-125					
4-Bromofluorobenzene-FI	494	492	500	500	98.8	98.4		58-124					

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn: Jay Clare

Prep Method: 5030

Legend & Notes

Gas/BTEX and MTBE

Analyte Flags

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

53878

URS Greiner Woodward Clyde
500 12th Street, Suite 200, Oakland, CA 94607-4014
510.893.3600

Chain of Custody Record

PROJECT NO. S1099670607			ANALYSES								Number of Containers	REMARKS (Sample preservation, handling procedures, etc.)	
SAMPLERS: (Signature) J. Luenbo			Sample Matrix (S)oil, (W)ater, (A)ir	EPA Method CAS	EPA Method Diesel	EPA Method BTEX	EPA Method MTBE						
DATE	TIME	SAMPLE NUMBER											
8/10/00	1100	#1	S	X	X	X	X					1	PLEASE SEND RESULTS TO JAY CLARE

2000-08-02-59

2.9

TOTAL NUMBER OF CONTAINERS
1

RELINQUISHED BY: (Signature) 	DATE/TIME 8/10/00 12pm	RECEIVED BY: (Signature) 	8/11/00	RELINQUISHED BY: (Signature) 	DATE/TIME 8/11/00	RECEIVED BY: (Signature)
METHOD OF SHIPMENT: Carrier		SHIPPED BY: (Signature)		CARRIER: (Signature)		RECEIVED FOR LAB BY (Signature)
						DATE/TIME

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0300

Date: August 2, 2000

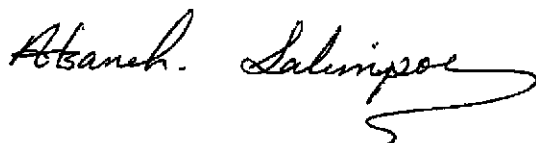
URS Greiner Woodward Clyde- Oakland
500 12th Street, Suite 200
Oakland, CA 94607-4014

Attn.: Jim Springer

Attached is our report for your samples received on Wednesday July 19, 2000
This report has been reviewed and approved for release. Reproduction of this report
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after August 18, 2000
unless you have requested otherwise. We appreciate the opportunity to be of service to you.
If you have any questions, please call me at (925) 484-1919. You can also contact me via email.
My email address is: asalimpour@chromalab.com

Sincerely,



Afsaneh Salimpour

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0300

Diesel

URS Greiner Woodward Clyde- Oakland	<input checked="" type="checkbox"/>	500 12th Street, Suite 200 Oakland, CA 94607-4014
Attn: Jim Springer		Phone: (510) 893-3600 Fax: (510) 874-3268
Project #: 510996706007		Project:

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
T-9	Soil	07/19/2000 13:55	1

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0300

To: **URS Greiner Woodward Clyde- Oakland**

Test Method: 8015M

Attn.: Jim Springer

Prep Method: 3550/8015M

Diesel

Sample ID: T-9	Lab Sample ID: 2000-07-0300-001
Project: 510996706007	Received: 07/19/2000 17:18
Sampled: 07/19/2000 13:55	Extracted: 07/20/2000 07:17
Matrix: Soil	QC-Batch: 2000/07/20-02.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	280	1.0	mg/Kg	1.00	07/20/2000 14:37	edr
<i>Surrogate(s)</i> o-Terphenyl	84.5	60-130	%	1.00	07/20/2000 14:37	

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0300

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8015M

Attn.: Jim Springer

Prep Method: 3550/8015M

Batch QC Report

Diesel

Method Blank	Soil	QC Batch # 2000/07/20-02.10
MB: 2000/07/20-02.10-001		Date Extracted: 07/20/2000 07:17

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	1	mg/Kg	07/20/2000 11:31	
Surrogate(s) o-Terphenyl	85.5	60-130	%	07/20/2000 11:31	

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

Printed on: 07/28/2000 12:01

Page 3 of 6

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0300

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8015M

Attn: Jim Springer

Prep Method: 3550/8015M

Batch QC Report

Diesel

Laboratory Control Spike (LCS/LCSD)

Soil

QC Batch # 2000/07/20-02.10

LCS: 2000/07/20-02.10-002

Extracted: 07/20/2000 07:17

Analyzed 07/20/2000 12:49

LCSD: 2000/07/20-02.10-003

Extracted: 07/20/2000 07:17

Analyzed 07/21/2000 09:05

Compound	Conc. [mg/Kg]		Exp. Conc. [mg/Kg]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Diesel	34.3	32.7	41.7	41.7	82.3	78.4	4.9	60-130	25		
Surrogate(s) o-Terphenyl	19.1	20.6	20.0	20.0	95.5	103.0		60-130			

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0300

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8015M

Attn.: Jim Springer

Prep Method: 3550/8015M

Batch QC Report

Diesel

Matrix Spike (MS / MSD)	Soil	QC Batch # 2000/07/20-02.10
Sample ID: 29B4-COMP		Lab Sample ID: 2000-07-0298-002
MS: 2000/07/20-02.10-004	Extracted: 07/20/2000 07:17	Analyzed: 07/20/2000 20:48 Dilution: 1.0
MSD: 2000/07/20-02.10-006	Extracted: 07/20/2000 07:17	Analyzed: 07/20/2000 21:33 Dilution: 1.0

Compound	Conc. [mg/Kg]			Exp.Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD		Recovery	RPD	MS	MSD
Diesel	38.3	39.2	6.37	41.7	41.7	76.6	78.7	2.7	60-130	25		
Surrogate(s)												
o-Terphenyl	19.2	19.5		20.0	20.0	96.0	97.5		60-130			

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

To: URS Greiner Woodward Clyde- Oakland

Attn: Jim Springer

Test Method: 8015M

Prep Method: 3550/8015M

Legend & Notes

Diesel

Analyte Flags

edr

Hydrocarbon reported is in the early Diesel range, and does not match our Diesel standard

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0300

Gas/BTEX (Methanol Extraction)

URS Greiner Woodward Clyde- Oakland



500 12th Street, Suite 200
Oakland, CA 94607-4014

Attn: Jim Springer

Phone: (510) 893-3600 Fax: (510) 874-3268

Project #: 510996706007

Project:

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
T-9	Soil	07/19/2000 13:55	1

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

Printed on: 07/24/2000 17:47

Page 1 of 5

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0300

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn.: Jim Springer

Prep Method: 5030

Gas/BTEX (Methanol Extraction)

Sample ID: T-9	Lab Sample ID: 2000-07-0300-001
Project: 510996706007	Received: 07/19/2000 17:18
Sampled: 07/19/2000 13:55	Extracted: 07/20/2000 13:34
Matrix: Soil	QC-Batch: 2000/07/20-05.02

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	530	20	mg/Kg	2.00	07/20/2000 13:34	g
Benzene	ND	1.2	mg/Kg	2.00	07/20/2000 13:34	
Toluene	ND	1.2	mg/Kg	2.00	07/20/2000 13:34	
Ethyl benzene	3.9	1.2	mg/Kg	2.00	07/20/2000 13:34	
Xylene(s)	9.0	1.2	mg/Kg	2.00	07/20/2000 13:34	
Surrogate(s)						
Trifluorotoluene	107.3	53-125	%	1.00	07/20/2000 13:34	
Trifluorotoluene-FID	241.2	53-125	%	1.00	07/20/2000 13:34	sh

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0300

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn.: Jim Springer

Prep Method: 5030

Batch QC Report
Gas/BTEX (Methanol Extraction)

Method Blank	Soil	QC Batch # 2000/07/20-05.02
MB: 2000/07/20-05.02-001		Date Extracted: 07/20/2000 19:10

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	10	mg/Kg	07/20/2000 19:10	
Benzene	ND	0.62	mg/Kg	07/20/2000 19:10	
Toluene	ND	0.62	mg/Kg	07/20/2000 19:10	
Ethyl benzene	ND	0.62	mg/Kg	07/20/2000 19:10	
Xylene(s)	ND	0.62	mg/Kg	07/20/2000 19:10	
Surrogate(s)					
Trifluorotoluene	71.2	53-125	%	07/20/2000 19:10	

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

Printed on: 07/24/2000 17:47

Page 3 of 5

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0300

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn: Jim Springer

Prep Method: 5030

Batch QC Report

Gas/BTEX (Methanol Extraction)

Laboratory Control Spike (LCS/LCSD)

Soil

QC Batch # 2000/07/20-05.02

LCS: 2000/07/20-05.02-002

Extracted: 07/20/2000 19:42

Analyzed 07/20/2000 19:42

LCSD: 2000/07/20-05.02-003

Extracted: 07/20/2000 20:13

Analyzed 07/20/2000 20:13

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery [%] RPD			Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	RPD [%]	Recovery	RPD	LCS	LCSD
Gasoline	0.700	0.662	0.625	0.625	112.0	105.9	5.6	75-125	35		
Benzene	0.106	0.107	0.125	0.125	84.8	85.6	0.9	77-123	35		
Toluene	0.102	0.104	0.125	0.125	81.6	83.2	1.9	78-122	35		
Ethyl benzene	0.105	0.105	0.125	0.125	84.0	84.0	0.0	70-130	35		
Xylene(s)	0.318	0.318	0.375	0.375	84.8	84.8	0.0	75-125	35		
Surrogate(s)											
Trifluorotoluene	396	417	500	500	79.2	83.4		53-125			

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

Printed on: 07/24/2000 17:47

Page 4 of 5

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn: Jim Springer

Prep Method: 5030

Legend & Notes

Gas/BTEX (Methanol Extraction)

Analyte Flags

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

sh

Surrogate recoveries were higher than QC limits due to matrix interference.

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0300

Metals

URS Greiner Woodward Clyde- Oakland

✉ 500 12th Street, Suite 200
Oakland, CA 94607-4014

Attn: Jim Springer

Phone: (510) 893-3600 Fax: (510) 874-3268

Project #: 510996706007

Project:

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
T-9	Soil	07/19/2000 13:55	1

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0300

To: URS Greiner Woodward Clyde- Oakland

Test Method: 6010B

Attn.: Jim Springer

Prep Method: 3050B

Metals

Sample ID: T-9	Lab Sample ID: 2000-07-0300-001
Project: 510996706007	Received: 07/19/2000 17:18
Sampled: 07/19/2000 13:55	Extracted: 07/20/2000 08:54
Matrix: Soil	QC-Batch: 2000/07/20-01.15
Sample/Analysis Flag . (See Legend & Note section)	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	4.4	1.0	mg/Kg	1.00	07/20/2000 12:45	

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0300

To: URS Greiner Woodward Clyde- Oakland

Test Method: 6010B

Attn.: Jim Springer

Prep Method: 3050B

Batch QC Report Metals

Method Blank	Soil	QC Batch # 2000/07/20-01.15
MB: 2000/07/20-01.15-025		Date Extracted: 07/20/2000 08:54

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Lead	ND	1.0	mg/Kg	07/20/2000 11:32	

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0300

To: URS Greiner Woodward Clyde- Oakland

Test Method: 6010B

Attn: Jim Springer

Prep Method: 3050B

Batch QC Report

Metals

Laboratory Control Spike (LCS/LCSD)	Soil	QC Batch # 2000/07/20-01.15
LCS: 2000/07/20-01.15-026	Extracted: 07/20/2000 08:54	Analyzed 07/20/2000 11:36
LCSD: 2000/07/20-01.15-027	Extracted: 07/20/2000 08:54	Analyzed 07/20/2000 11:40

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Lead	104	104	100.0	100.0	104.0	104.0	0.0	80-120	20		

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0300

To: URS Greiner Woodward Clyde- Oakland

Test Method: 6010B

Attn.: Jim Springer

Prep Method: 3050B

Batch QC Report

Metals

Matrix Spike (MS / MSD)

Soil

QC Batch # 2000/07/20-01.15

Sample ID: 10-174

Lab Sample ID: 2000-07-0291-001

MS: 2000/07/20-01.15-040 Extracted: 07/20/2000 08:54 Analyzed: 07/20/2000 12:32 Dilution: 1.0

MSD: 2000/07/20-01.15-041 Extracted: 07/20/2000 08:54 Analyzed: 07/20/2000 12:35 Dilution: 1.0

Compound	Conc. [mg/Kg]			Exp.Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD		Recovery	RPD	MS	MSD
Lead	81.8	82.8	10.0	100.0	100.0	71.8	72.8	1.4	75-125	20	mso	mso

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

To: URS Greiner Woodward Clyde- Oakland
Attn: Jim Springer

Test Method: 6010B
Prep Method: 3050B

Legend & Notes

Metals

QC Compound Flags

mso

MS/MSD spike recoveries were out of QC limits due to matrix interference. Precision and Accuracy were verified by LCS/LCSD.

