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**ALAMEDA COUNTY
ENVIRONMENTAL HEALTH**

**THIRD QUARTER 2005
GROUNDWATER
MONITORING REPORT**

**FORMER RUSS ELLIOTT, INC. FACILITY
2526 WOOD STREET
OAKLAND, CALIFORNIA
ALAMEDA COUNTY HEALTH CASE NO. RO000040**

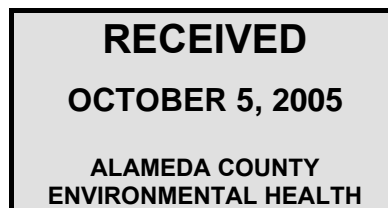
Prepared for

**MS. JEANNETTE ELLIOTT
SAN LEANDRO, CALIFORNIA**

September 2005

September 23, 2005

Mr. Barney Chan
Hazardous Materials Specialist
Alameda County Health Care Services Agency
Department of Environmental Health
Local Oversight Program
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502



Subject: Third Quarter 2005 Groundwater Monitoring Report
Former Russ Elliott, Inc. Facility – 2526 Wood Street, Oakland, California
Alameda County Health Case No. RO000040

Dear Mr. Chan:

This report documents the seventh consecutive groundwater monitoring event (Q3 2005) conducted in August 2005 by Stellar Environmental Solutions, Inc. (SES) at the referenced site. Three site groundwater monitoring wells were installed and first sampled in February 2004 to evaluate impacts from two former onsite underground fuel storage tanks. The scope of work was conducted in accordance with the Alameda County Health-approved SES technical workplan. This report was uploaded to the State Water Resources Control Board's GeoTracker system .

In our professional opinion, continued groundwater monitoring is warranted to evaluate plume stability over time. Please contact us at (510) 644-3123 if you have any questions.

Sincerely,



Bruce Rucker, R.G. (#6814), R.E.A.
Project Manager and Senior Geologist



Richard S. Makdisi, R.G., R.E.A.
Principal

cc: Ms. Jeannette Elliott – Property Owner

**THIRD QUARTER 2005
GROUNDWATER
MONITORING REPORT**

**FORMER RUSS ELLIOTT, INC. FACILITY
2526 WOOD STREET
OAKLAND, CALIFORNIA
ALAMEDA COUNTY HEALTH CASE NO. RO000040**

Prepared for:

**MS. JEANNETTE ELLIOTT
1744 SKYVIEW DRIVE
SAN LEANDRO, CALIFORNIA 94577**

Prepared by:

**STELLAR ENVIRONMENTAL SOLUTIONS, INC.
2198 SIXTH STREET
BERKELEY, CALIFORNIA 94710**

September 23, 2005

Project No. 2003-41

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1.0 INTRODUCTION

PROJECT BACKGROUND

Stellar Environmental Solutions, Inc. (SES) was retained by Ms. Jeannette Elliott (property owner) to conduct ongoing groundwater monitoring and sampling activities at 2526 Wood Street in Oakland, California. The work is designed to evaluate impacts from former onsite underground fuel storage tanks (UFSTs). Previous site corrective actions and investigations are summarized later in this report. The Alameda County Department of Environmental Health (Alameda County Health) is the lead regulatory agency for the investigation, and has assigned the site as Fuel Leak Case No. RO000040. The California GeoTracker Global ID for the facility is T0600102110.

SITE AND VICINITY DESCRIPTION

The project site is a former roofing company (Russ Elliott, Inc.) located at 2526 Wood Street, Oakland, Alameda County, California (site). The business ceased operations at the site in early 2004, and the property is currently occupied by a construction firm. The property was recently sold; however, the previous property owner (Ms. Jeannette Elliott) remains responsible for the UFST-related site investigation.

The property is approximately 380 feet long (between Wood Street and Willow Street) by approximately 120 feet wide. The long axis of the site (parallel to 26th Street) is oriented approximately northeast to southwest. Figure 1 is a site location map. Figure 2 shows the location of the former site UFSTs in relation to the site buildings and adjacent streets.

The former UFSTs and current area of investigation are situated in the largely unpaved service yard near the western border of the subject property (near 26th Street). Access to this area is provided either through a chain link gate on 26th Street or a gate operated by the current tenant on Willow Street. The area available for exterior drilling is limited by adjacent buildings and an active railroad spur that services an adjacent parcel. Nearby land use is wholly commercial and light industrial (there are no residential or other sensitive land uses in the immediate vicinity).

Downgradient (to the west) land use includes streets, then undeveloped land with freeway overpasses, then San Francisco Bay (a total of approximately 3,000 feet from the subject property).



SITE LOCATION ON U.S.G.S. TOPOGRAPHIC MAP

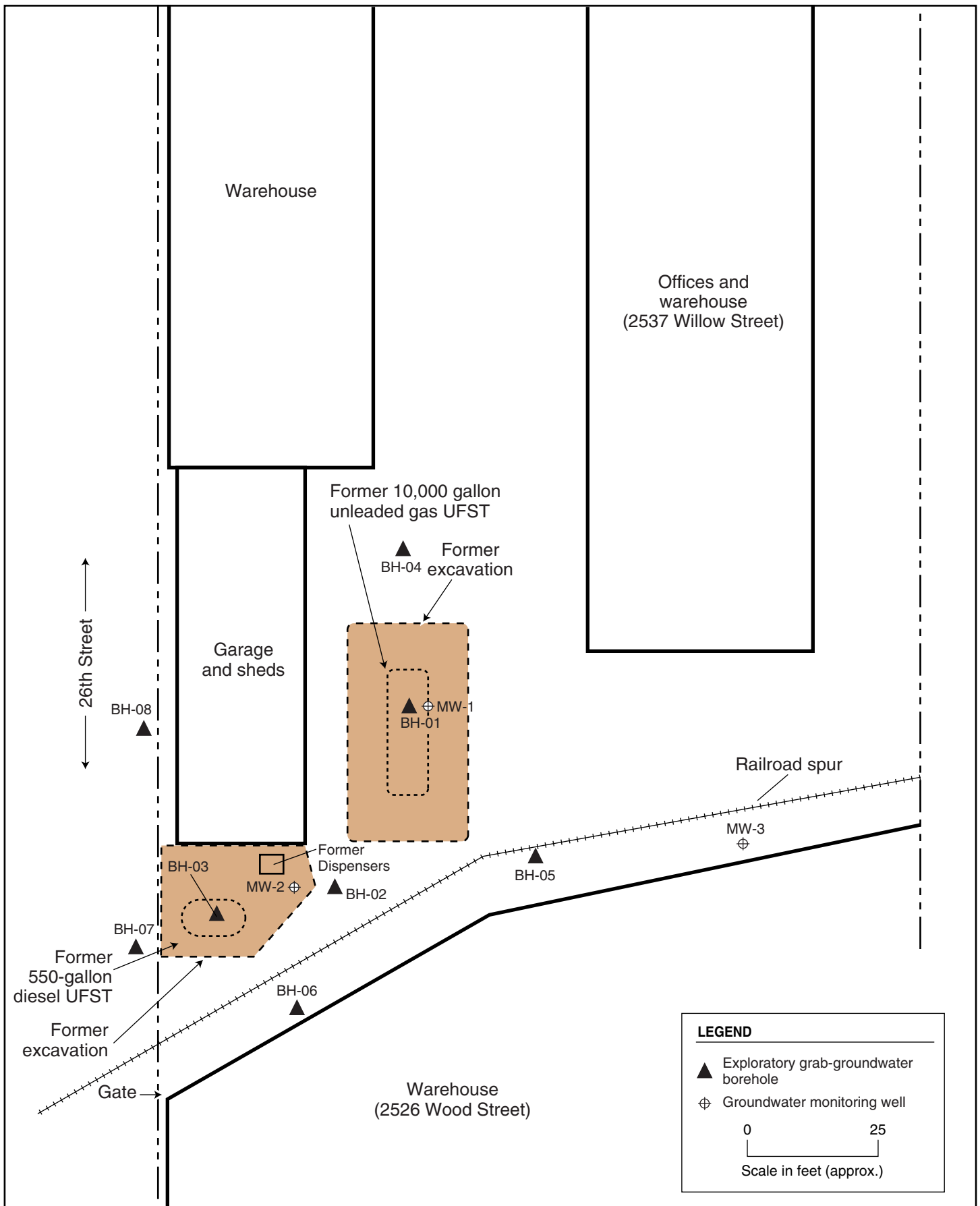
2526 Wood Street
Oakland, CA

By: MJC

JULY 2003

Figure 1

2003-36-01



2003-41-22



SITE PLAN AND HISTORICAL SAMPLING LOCATIONS

**2526 Wood Street
Oakland, CA**

By: MJC

JUNE 2004

Figure 2

Stellar Environmental Solutions, Inc.
Geoscience & Engineering Consulting

PREVIOUS INVESTIGATIONS AND CORRECTIVE ACTIONS

UFST Removals

Two UFSTs were located near the western border of the subject property (near 26th Street), approximately 40 feet from each other. Both UFSTs were utilized for fueling company vehicles, and shared a common dispenser island that was located between them. Both UFSTs were removed under permit and regulatory oversight.

The 550-gallon diesel UFST was removed in 1995, and the 10,000-gallon gasoline UFST was removed in 2002. The confirmation soil and water sampling conducted during the UFST removals suggested an historical leak in the UFST and/or piping. No UFST closure documentation report was submitted for these UFST removals by the contractor that conducted the removals.

A UFST closure documentation report prepared by SES (SES, 2003a), that discussed both UFST removals, was submitted to both the Oakland Fire Department and Alameda County Health.

2003 Preliminary Site Assessment

Concurrent with the UFST closure documentation report, SES submitted to Alameda County Health a technical workplan for a Preliminary Site Assessment (PSA) (consisting of exploratory borehole drilling and sampling) to evaluate the potential for residual contamination (SES, 2003b). Alameda County Health subsequently approved the technical workplan (Alameda County Health, 2003). The investigation, conducted in 2003, included advancing and sampling (of soil and groundwater) from eight exploratory boreholes. A PSA documentation report was submitted to Alameda County Health (SES, 2003c).

Groundwater contaminants detected above screening-level criteria include diesel, gasoline, benzene, methyl *tertiary*-butyl ether (MTBE), and *tertiary*-butyl alcohol (TBA). The only soil contaminant detected above screening-level criteria was MTBE; however, that contamination was confined to the immediate vicinity of the former gasoline UFST. No soil contamination was detected beneath the upper water-bearing zone.

Groundwater Monitoring Well Installation

On behalf of the property owner, SES submitted to Alameda County Health a technical workplan for a program of groundwater monitoring well installation, sampling, and reporting (SES, 2004a). Alameda County Health subsequently approved the well installation workplan (Alameda County Health, 2004). Three groundwater monitoring wells were installed, developed, surveyed, and sampled in February 2004 (SES, 2004b).

Groundwater Monitoring Well Sampling

Groundwater monitoring well monitoring/sampling events have been conducted on a quarterly basis since February 2004.

OBJECTIVES AND SCOPE OF WORK

This report discusses the following activities conducted/coordinated by SES between July 1 and September 30, 2005:

- Collecting water levels in site wells to determine shallow groundwater flow direction;
- Sampling site wells for contaminant analysis and indicators of natural attenuation; and
- Disposing of approximately 150 gallons of purge water from previous monitoring events, stored onsite in 55-gallon drums.

REGULATORY OVERSIGHT

The lead regulatory agency for the site investigation and remediation is Alameda County Health. All workplans and reports are submitted to this agency. The most recent Alameda County Health directive regarding the site (letter dated January 6, 2004) approved the well installation and quarterly groundwater monitoring and sampling.

Electronic Data Format (EDF) files from all groundwater monitoring events have been successfully uploaded to the State Water Resources Control Board's GeoTracker database, in accordance with that agency's requirements for EDF submittals. Since August 2005, technical reports have also been uploaded to Alameda County Health's "ftp" system.

2.0 PHYSICAL SETTING

Following is a brief summary of the site hydrogeologic conditions based on geologic logging and water level measurements collected at the site since October 2003.

A detailed discussion of site lithology and hydrogeology was provided in the well installation report (SES, 2004a). The following summarizes site conditions. A total of 11 exploratory boreholes at the subject property have been geologically logged by a California Registered Geologist using the visual method of the Unified Soils Classification System. The majority of site boreholes have been advanced to 20 feet below ground surface (bgs). That interval includes the upper water-bearing zone and the underlying low-permeability non-water-bearing zone (aquitarde).

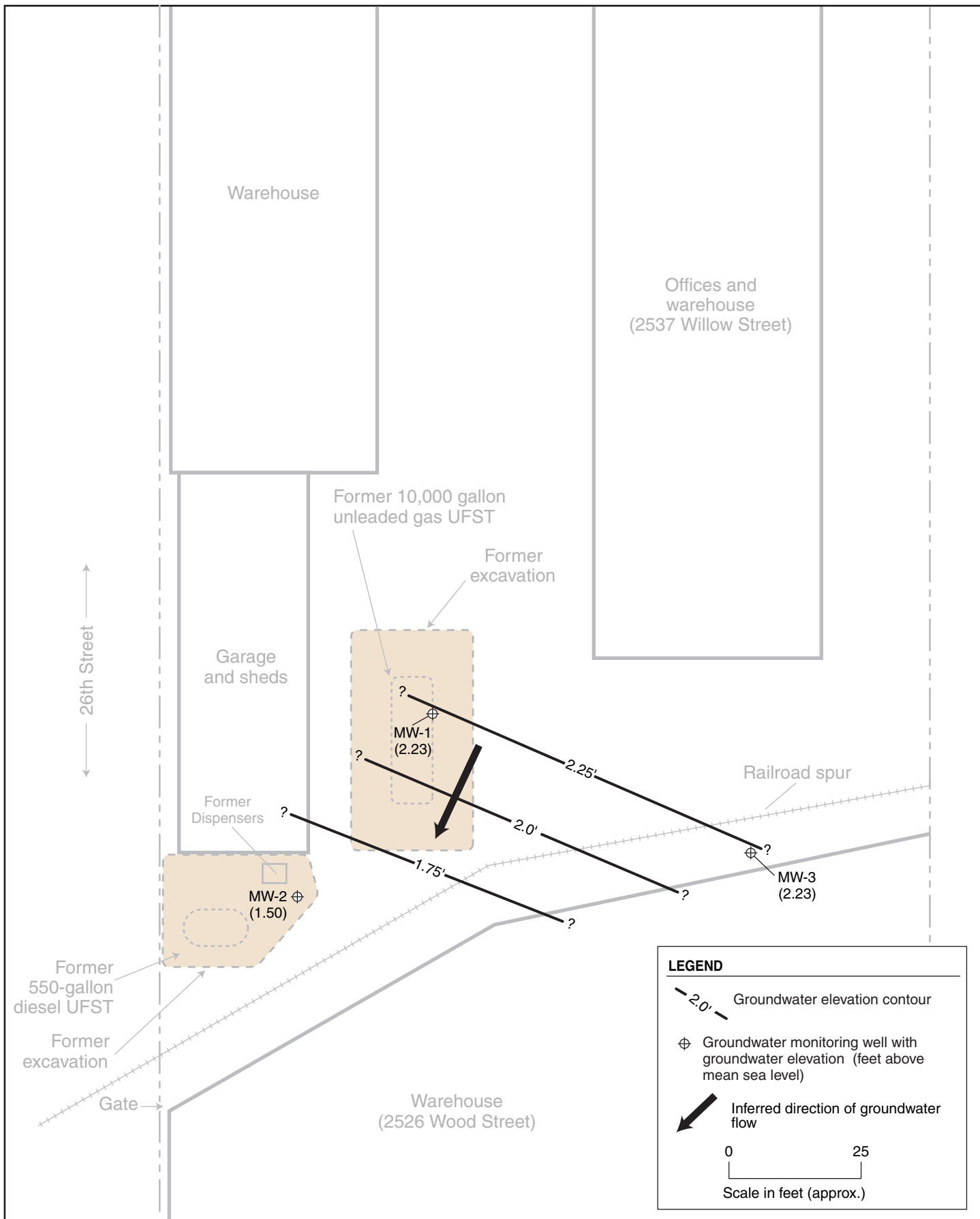
LITHOLOGY

In general, native soil consists primarily of clay (often silty), with interbedded sandy and gravelly zones. The upper 2 to 3 feet is dry, gravelly, sandy fill material. In the majority of the boreholes, this is underlain by a sand (often silty and clayey) varying in thickness from 1 to 6 feet, in which water was encountered (see below). This is underlain by a clay unit, occasionally with interbedded sand stringers. In some of the boreholes, this clay unit extends to total depth. In other boreholes, this clay unit is underlain by a sand unit, which in turn is underlain by a low-permeability clay (often gravelly). The shallow site lithology is typical of alluvial fan and stream depositional environments in this area, with lower-permeability (clay and silt) overbank deposits, and higher-permeability (sand and gravel) channel deposits, with significant lateral and depth variation over short distances.

GROUNDWATER HYDROLOGY

Two shallow water-bearing zones were encountered in native soils in the majority of site boreholes. The top of the upper zone (possibly a perched water zone) was encountered at depths between approximately 4 and 8 feet bgs, in a sandy zone. Water was then encountered again at depths between approximately 13.5 and 17.5 feet bgs. In some of the boreholes, this deeper water was encountered at the top of the sand zone (when present); in other boreholes, it was within the lower clay unit. Water levels in wells MW-1 and MW-2 (installed in the former UFST backfill areas) are likely influenced by direct infiltration during winter recharge events due to the higher permeability of excavation backfill material.

Depth to groundwater (equilibrated in wells) in the current monitoring event ranged from approximately 4.7 to 4.8 feet below grade (corresponding to 1.5 to 2.2 feet above mean sea level). Figure 3 is a groundwater elevation and contour map for the current event. Table 1 (Section 3.0) summarizes current groundwater level data. Groundwater flow direction during the current event was to the southeast. The groundwater flow direction varies seasonally.



GROUNDWATER ELEVATION MAP — AUGUST 26, 2005

**2526 Wood Street
Oakland, CA**

By: MJC

SEPTEMBER 2005

Figure 3

★ Stellar Environmental Solutions, Inc.
Geoscience & Engineering Consulting

2003-41-41



3.0 Q3 2005 GROUNDWATER MONITORING AND SAMPLING ACTIVITIES

This section presents the groundwater monitoring and sampling methods for the most recent groundwater monitoring/sampling event. Analytical results are discussed in a subsequent section. Activities included:

- Measuring static water levels with an electric water level indicator;
- Purging wells to obtain representative formation water (and collecting aquifer stability parameters between each purging); and
- Collecting post-purge groundwater samples for laboratory analysis.

On August 26, 2005, groundwater monitoring well water level measurements, purging, and sampling activities were conducted by EnTech Analytical Labs (Santa Clara, CA), under the supervision of SES personnel. Table 1 shows the well construction and groundwater elevation data. Appendix A contains the groundwater monitoring field records for the sampling event.

Table 1
Groundwater Monitoring Well Construction and Groundwater Elevation Data
August 26, 2005 Monitoring Event
2526 Wood Street, Oakland, California

Well	Well Depth ^(a)	Screened Interval	TOC Elevation ^(b)	Groundwater Depth ^(c)	Groundwater Elevation ^(b)
MW-1	20	5 to 20	6.95	4.72	2.23
MW-2	20	5 to 20	6.29	4.79	1.50
MW-3	20	5 to 20	6.94	4.71	2.23

Notes:

- ^(a) Well depths are expressed in feet bgs, and are approximate.
- ^(b) All elevations are expressed as feet above mean sea level.
- ^(c) Groundwater depths are expressed in feet bgs relative to the top of well casing.

TOC = Top of casing.

All wells are 2-inch-diameter.

MW-1 elevation was resurveyed in April 2005 after the well box was damaged and replaced.

As the first task of the monitoring event, static water levels were measured using an electric water level indicator. Each well was then purged (with a downhole pump) of three wetted casing volumes. Aquifer stability parameters were measured between each purged casing volume to ensure that representative formation water entered the well before sampling. Neither separate-phase petroleum product nor sheen was observed during well purging/sampling.

The “GeoWell” data for this event (water levels) were uploaded in EDF format to the State Water Resources Control Board’s GeoTracker on-line database.

4.0 REGULATORY CONSIDERATIONS

REGULATORY STATUS

The lead regulatory agency for petroleum contamination cases in the City of Oakland is Alameda County Health, which is a Local Oversight Program (LOP) for the Regional Water Quality Control Board, San Francisco Bay Region (Water Board). As such, Alameda County Health directly oversees soil and groundwater investigations/remediation on UFST sites (with or without Water Board guidance) until determining that case closure is appropriate, at which time Alameda County Health recommends case closure to the Water Board. Alameda County Health has designated the subject property case as Fuel Leak Case No. RO00040. The site is listed in the Water Board's GeoTracker database of reported releases from petroleum UFSTs (Water Board Case No. 01-2294 and Global ID No. T0600102110).

RESIDUAL CONTAMINATION REGULATORY CONSIDERATIONS

The most applicable published numerical criteria governing residual soil and groundwater contamination at this site are the Water Board's Environmental Screening Levels (ESLs) (Water Board, 2005). ESLs are screening-level criteria used to evaluate whether additional investigation and/or remediation are warranted. Criteria to be considered in using the ESLs include:

- contamination is limited to surface soil (less than 10 feet deep) or to subsurface soil;
- soil is fine-grained or coarse-grained;
- land use is residential or commercial/industrial; and
- groundwater *is* or *is not* a known or potential drinking water source.

For the detected site contaminants, the ESL values are the same for surface soil and subsurface soil.

The appropriate ESLs for this site are for coarse-grained soil (a conservative assumption, as grain-size analysis has not been conducted) and commercial/industrial land use (because the owner has no plans to redevelop the property with residential land use). Qualifying for the (usually higher) ESL values for sites where groundwater *is not* a current or potential drinking water source requires obtaining a site-specific variance from the Water Board. The Water Board completed an East Bay Beneficial Use Study (Water Board, 1999) that covers the Richmond-to-Hayward East Bay Basin Area and, based on multiple technical criteria, divides the Basin into three zones:

- Zone A (significant drinking water resource);
- Zone B (groundwater unlikely to be used as drinking water source); and
- Zone C (shallow groundwater proposed for redesignation as Municipal Supply Beneficial Use). This classification indicates that groundwater could not reasonably be expected to serve a public water supply; however, it does not specifically address private water supply wells that might be used for drinking water. In accordance with State Water Resources Control Board Resolution 92-49, pollution sites within this zone must not pose a potential impact to human health or ecologic receptors, and the groundwater contamination plume must be stable or reducing.

The subject site falls within Zone C. The most conservative assumption for the site is that there is a potential for private drinking water wells to be impacted. However, the site location (with no residential downgradient land use) suggests that the less conservative ESLs (“a potential or current drinking water source is not threatened”) may be appropriate when the site is considered for case closure. Until case closure is considered, this report (and future reports) will discuss residual soil and groundwater contamination in the context of the more conservative ESL criteria.

SITE CLOSURE CRITERIA

Alameda County Health and the Water Board generally require that the following criteria be met before issuing regulatory closure of petroleum release cases:

1. The contaminant source (UFSTs and obviously-contaminated backfill material) has been removed. This criterion has been met, and the available soil analytical results indicate that the residual MTBE soil contamination in the immediate vicinity of the former UFSTs will not be an appreciable long-term source of groundwater contamination.
2. The groundwater contaminant plume is stable or reducing—i.e., groundwater contamination is not increasing in concentration or lateral extent. This criterion has not yet been met, and will be evaluated based on the ongoing quarterly groundwater sampling program.
3. If residual contamination (soil or groundwater) exists, there is no reasonable risk to sensitive receptors (i.e., surface water or water supply wells) or to site occupants. This criterion is generally met by conducting a sensitive receptor survey and/or a Risk-Based Corrective Action (RBCA) assessment that models the fate and transport of residual contamination in the context of potential impacts to sensitive receptors. This task is generally conducted after the previous two criteria have been met. Based on the apparent absence of benzene (the probable “risk driver” compound for this site) at elevated concentrations and the likely absence of sensitive receptors, if private wells are eliminated as potential receptors, the site would likely pass the RBCA assessment.

5.0 Q3 2005 MONITORING EVENT ANALYTICAL RESULTS

This section discusses the findings of the current sampling event. Historical groundwater monitoring well analytical results are included as Appendix D.

All groundwater samples in the current sampling event were analyzed for:

- Total volatile hydrocarbons – gasoline range (TVHg), by modified EPA Method 8015;
- Total extractable hydrocarbons – diesel range (TEHd), by modified EPA Method 8015;
- Benzene, toluene, ethylbenzene, and xylenes (BTEX), by EPA Method 8020;
- MTBE, by EPA Method 8260;
- Fuel oxygenates (*tertiary*-amyl methyl ether [TAME], di-isopropyl ether [DIPE], and TBA), by EPA Method 8260; and
- Lead scavengers (1,2-dichloroethane [EDC] and 1,2-dibromomethane [EDB]), by EPA Method 8260.

All groundwater samples were analyzed by EnTech Analytical Labs, which maintains current ELAP certifications for all of the analytical methods utilized in this investigation. Appendix B contains the certified analytical laboratory report and chain-of-custody record for this event.

Table 2 summarizes the groundwater sample analytical results from the current well sampling event. Figure 4 displays the groundwater analytical results on the site plan.

Only three contaminants were detected in the current event. MTBE was detected at concentrations between 120 µg/L (MW-2) and 310 µg/L (MW-1). The Water Board ESL criterion for MTBE is 5.0 µg/L. Gasoline was also detected at concentrations between 110 µg/L (MW-2) and 220 µg/L (MW-1); the ESL is 100 µg/L. Contaminants analyzed for and not detected in the current event include diesel, BTEX, lead scavengers, and fuel oxygenates. No contamination was detected in well MW-3.

The analytical laboratory report was uploaded in EDF format to the GeoTracker on-line database.

Table 2
August 26, 2005 Groundwater Analytical Results
2526 Wood Street, Oakland ^(a)

Sample I.D.	TEHd	TVHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE ^(b)	Fuel Oxygenates and Lead Scavengers ^(b)
MW-1	< 500	220	< 0.5	< 0.5	< 0.5	< 1.0	310	ND
MW-2	< 50	110	< 0.5	< 0.5	< 0.5	< 1.0	120	ND
MW-3	< 50	< 50	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	ND
Groundwater ESLs	100	100	1.0	40	30	13	5.0	not applicable

Notes:

^(a) All concentrations are in µg/L.

^(b) Full list of fuel oxygenates and lead scavengers is included in Appendix B.

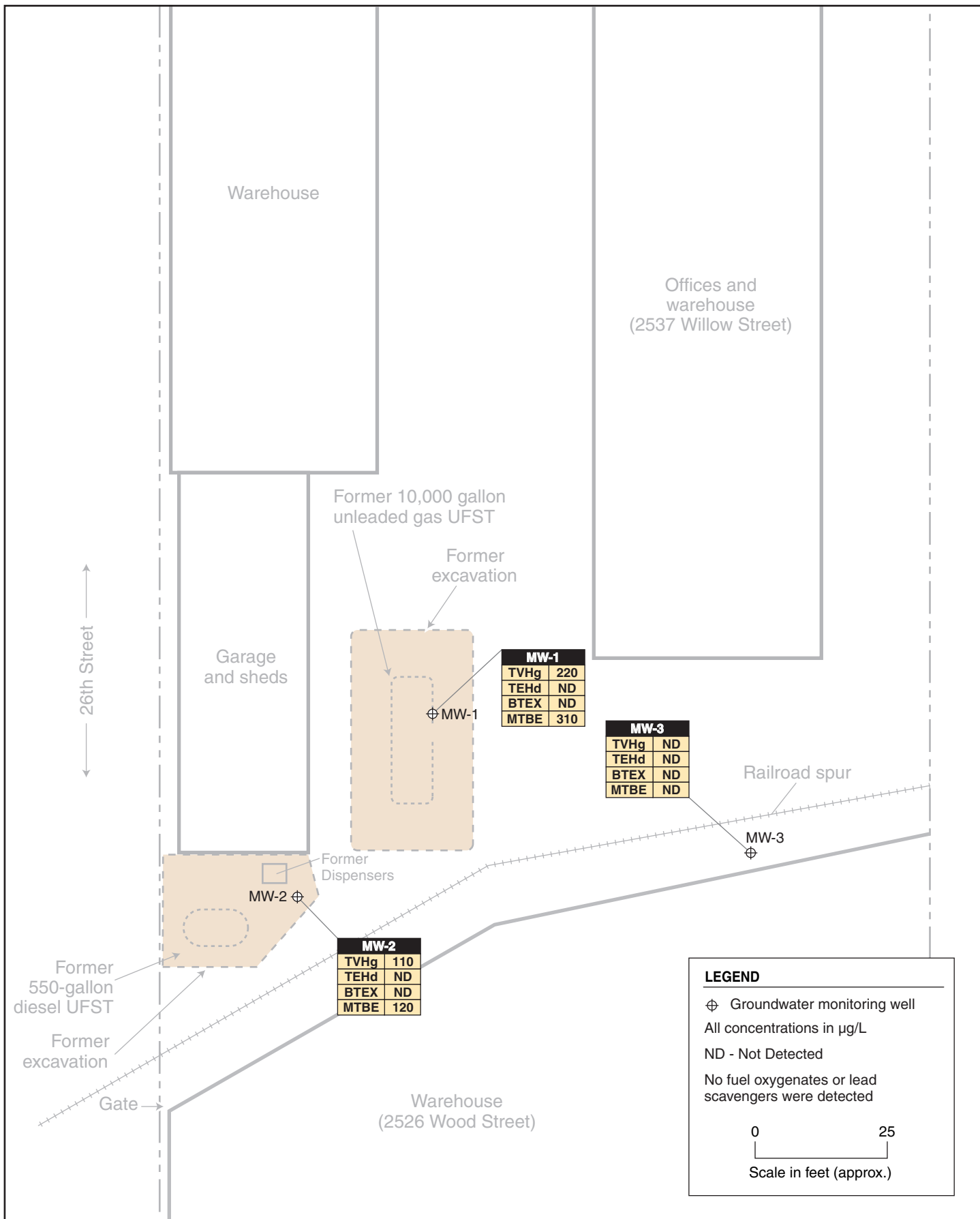
MTBE = methyl *tertiary*-butyl ether

TEHd = total extractable hydrocarbons – diesel range

TVHg = total volatile hydrocarbons – gasoline range

ESLs = Regional Water Quality Control Board, San Francisco Bay Region, Environmental Screening Levels (Water Board, 2005) for commercial/industrial sites where groundwater is a potential drinking water source.

ND = not detected above method reporting limits



AUGUST 2005 GROUNDWATER ANALYTICAL RESULTS

2526 Wood Street
Oakland, CA

By: MJC

SEPTEMBER 2005

Figure 4

Stellar Environmental Solutions, Inc.
Geoscience & Engineering Consulting



6.0 WASTEWATER DISPOSAL

Three 55-gallon drums of waste water (from purging of wells prior to groundwater sampling) were generated during the six previous groundwater monitoring events. A composite sample of the drummed water was collected by SES on June 21, 2005 and analyzed for the site contaminants of concern. The sample contained no gasoline, BTEX, or MTBE, but did contain 1,100 µg/L of diesel.

The water was profiled (copy included in Appendix C) by North State Environmental. The water was transported offsite on July 6, 2005 by North State Environmental for disposal at the DK Environmental facility in Vernon, California. Documentation of the wastewater analysis, profiling transport, and disposal is included in Appendix C of this report.

7.0 SUMMARY, CONCLUSIONS, OPINION, AND RECOMMENDATIONS

SUMMARY AND CONCLUSIONS

The available data support the following findings and conclusions:

- Two UFSTs containing diesel and gasoline were removed from the site in 1995 and 2002, respectively. Excavation confirmation soil samples indicated that MTBE was the sole contaminant of concern in soil, although pit water samples contained elevated levels of diesel, gasoline, and MTBE. A UFST closure documentation report discussing both UFST removals was submitted to the appropriate regulatory agencies in 2003.
- A Preliminary Site Assessment (exploratory borehole drilling and sampling program) was conducted in October 2003; activities included advancing and sampling eight exploratory boreholes to a maximum depth of 25 feet below grade. Hydrocarbon contamination was most pronounced in samples from the areas of the two former UFSTs and to the south-southwest.
- Three shallow site groundwater monitoring wells were installed, developed, and surveyed in February 2004, and have been sampled on a quarterly basis since that time.
- Site lithology ranges from low-permeability silts and clays to higher-permeability (and water-bearing) sands and gravels. There are two shallow water bearing zones: the top of the upper zone (potentially a seasonally-perched zone), which is encountered at depths between 4 and 8 feet bgs; and the top of the third zone, which is encountered at depths between approximately 13.5 and 17.5 feet bgs. The lower water-bearing zone is underlain by a low-permeability, non-water-bearing zone.
- Local groundwater flow direction varies from south (generally in the rainy season) to west (generally in the dry season). Historical data show the expected seasonal trend of lower groundwater elevations in the dry season, increasing with the onset of rains. The site data suggest that backfill material in one or both of the former UFST excavations may be influencing apparent flow direction.
- The only soil contaminant historically detected above ESL criteria in residual soils (including UFST removal, borehole, and well installation phases) is MTBE, at locations within 15 feet of the former UFST excavations. The maximum detected MTBE

concentration in soil is between the most restrictive (residential, groundwater used) and the least restrictive (commercial/industrial, groundwater not used) Water Board ESL criteria.

- In the current monitoring event, neither diesel, BTEX, lead scavengers, nor fuel oxygenates were detected. The only contaminants detected above ESL criteria were MTBE (in MW-1 and MW-2) and gasoline (also in MW-1 and MW-2).
- The current monitoring wells appear adequate to define local groundwater flow direction and evaluate site-sourced hydrochemistry, although continued groundwater monitoring is warranted to ensure that groundwater contamination above regulatory agency levels of concern is not migrating offsite.
- The property owner is pursuing reimbursement from the State of California Underground Storage Tank Cleanup Fund (Fund) for regulatory agency-directed corrective action and investigation costs. The initial Claim Application was submitted to the Fund in February 2004.
- All required electronic uploads for previous work have been made to the State Water Resources Control Board's GeoTracker on-line database system, including a Portable Data Format (pdf) copy of this report.

PROPOSED ACTIONS

- The property owner proposes to continue the quarterly groundwater monitoring well monitoring and sampling program, in accordance with the technical workplan approved by Alameda County Health. This will include electronic uploads (water levels, groundwater analytical data, and technical reports) for future monitoring events to the GeoTracker system.
- Future groundwater monitoring will continue to focus on the evaluation of the magnitude and extent of groundwater contamination, particularly with regard to plume stability. If future monitoring indicates that offsite migration of contamination is occurring, additional assessment activities—i.e., sensitive receptor survey; vicinity well survey; RBCA study; and/or additional exploratory boreholes/groundwater monitoring wells—will be considered. If the data indicate that the plume is contained onsite, and has been reduced by attenuation to low concentrations and stable conditions, SES will evaluate the data in the context of meeting regulatory closure criteria.
- The property owner will continue to pursue reimbursement of eligible incurred corrective action costs from the California UST Cleanup Fund.

8.0 REFERENCES AND BIBLIOGRAPHY

- Alameda County Health Care Services – Department of Environmental Health (Alameda County Health), 2004. Letter approving Stellar Environmental Solutions’ January 8, 2004 technical workplan for groundwater characterization at 2526 Wood Street, Oakland, California. January 26.
- Alameda County Health, 2003. Letter approving Stellar Environmental Solutions’ August 20, 2003 PSA workplan for 2526 Wood Street, Oakland, California. September 29.
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- SES, 2003a. Underground Fuel Storage Tanks Closure Documentation and Assessment Report, Russ Elliott, Inc. – 2526 Wood Street, Oakland, California. August 15.
- SES, 2003b. Workplan for Preliminary Site Assessment – Russ Elliott, Inc. Facility, 2526 Wood Street, Oakland, California. August 20.
- SES, 2003c. Preliminary Site Assessment Report – Russ Elliott, Inc. Facility, 2526 Wood Street, Oakland, California. November 19.

9.0 LIMITATIONS

This report has been prepared for the exclusive use of Ms. Jeannette Elliott, her authorized representatives, and the regulatory agencies. No reliance on this report shall be made by anyone other than those for whom it was prepared.

The findings and conclusions presented in this report are based on a review of previous investigators' findings at the site, as well as site investigations conducted by SES since 2003. This report has been prepared in accordance with generally accepted methodologies and standards of practice. The SES personnel who performed this limited remedial investigation are qualified to perform such investigations and have accurately reported the information available, but cannot attest to the validity of that information. No warranty, expressed or implied, is made as to the findings, conclusions, and recommendations included in the report.

The findings of this report are valid as of the date of this report. Site conditions may change with the passage of time, natural processes, or human intervention, which can invalidate the findings and conclusions presented in this report. As such, this report should be considered a reflection of the current site conditions as based on the activities completed.

APPENDIX A

Well Monitoring and Sampling Field Records

WELL PURGING/SAMPLING DATA

Project Number: _____ Date: 8-26-05
 Project / Site Location: Russ Elliot
2526 WOOD ST. OAKLAND CA

Sampler/Technician: _____

Casing Diameter (inches)	0.75	2	4	6
Casing Volumes (gallons)	0.02	0.2	0.7	1.52

Well No. MN-1

A. Total Well Depth	11.27
B. Depth To Water	4.72
C. Water Height (A-B)	6.55
D. Well Casing Diameter	2
E. Casing Volume	0.2
F. Single Case Volume (Cx E)	1.31
G. Case Volume(s)(CxEx3)	3.93
H. 80% Recharge Level	6.03 7.94

Well No. MN-2

A. Total Well Depth	15.06
B. Depth To Water	4.79
C. Water Height (A-B)	10.27
D. Well Casing Diameter	2
E. Casing Volume	0.2
F. Single Case Volume (Cx E)	2.1
G. Case Volume(s)(CxEx3)	6.3
H. 80% Recharge Level	6.89 6.89

Purge Event

Start Time: 1320
 Finish Time: 1330

Post Purge Measurement

Depth to Water: 4.76
 Time Measured: 1333

Recharge/Sample Time

Depth to Water: 4.76
 Time Measured: 1410

Purge Event

Start Time: 1245
 Finish Time: 1310

Post Purge Measurement

Depth to Water: 11.25
 Time Measured: 1315

Recharge/Sample Time

Depth to Water: 6.77
 Time Measured: 1400

Well Fluid Parameters:

Gals.	0	1	2.25	3.41
pH	8.56	8.42	8.24	8.19
T(°C)	23.3	22.7	21.5	22.1
Cond.	940	938	947	939
DO mg/L	2.02			→
DO %	35.2			→
Turbidity				
ORP				

Well Fluid Parameters:

Gals.	0	2	4	6.3
pH	7.20	7.14	7.18	7.21
T(°C)	24.3	22.0	20.8	21.3
Cond.	646	676	621	704
DO mg/L	3.63			→
DO %	37.8			→
Turbidity				
ORP				

POST PURGE

POST PURGE

Summary Data:

Total Gallons Purged: 3.41
 Purge device: DC 60
 Sampling Device: DISP. BAILER
 Sample Collection Time: 1415
 Sample Appearance/Odor: _____

Summary Data:

Total Gallons Purged: 6.3
 Purge device: DC 60
 Sampling Device: DISP. BAILER
 Sample Collection Time: 1405
 Sample Appearance/Odor: _____

WELL PURGING/SAMPLING DATA

Project Number: _____ Date: 8-26-05
 Project / Site Location: Russ Elliot
2526 Wood St., Oakland CA

Sampler/Technician: _____

Casing Diameter (inches)	0.75	2	4	6
Casing Volume (gallons)	0.02	0.2	0.7	1.52

Well No. MW-3

A. Total Well Depth	18.18
B. Depth To Water	4.71
C. Water Height (A-B)	13.47
D. Well Casing Diameter	2
E. Casing Volume	0.2
F. Single Case Volume (Cx E)	2.69
G. Case Volume(s) (Cx Ex 3)	8.1
H. 80% Recharge Level (F+B)	7.4

Well No. _____

A. Total Well Depth	
B. Depth To Water	
C. Water Height (A-B)	
D. Well Casing Diameter	
E. Casing Volume	
F. Single Case Volume (Cx E)	
G. Case Volume(s) (Cx Ex)	
H. 80% Recharge Level	

Purge Event

Start Time: 1150
 Finish Time: 1215

Post Purge Measurement

Depth to Water: 15.06
 Time Measured: 1217

Recharge/Sample Time

Depth to Water: 6.85
 Time Measured: 1245

Purge Event

Start Time: _____
 Finish Time: _____

Post Purge Measurement

Depth to Water: _____
 Time Measured: _____

Recharge/Sample Time

Depth to Water: _____
 Time Measured: _____

Well Fluid Parameters:

Gals.	0	2.5	6.0	8.1
pH	6.77	6.81	6.84	6.89
T (°C)	24.7	21.3	19.8	19.3
Cond.	1041	1278	1429	1558
DO mg/L	2.83	→		
DO %	3.25	→		
Turbidity	33.9			
ORP				

Well Fluid Parameters:

Gals.				
pH				
T (°C)				
Cond.				
DO mg/L				
DO %				
Turbidity				
ORP				

POST
PURGE

Summary Data:

Total Gallons Purged: 8.1
 Purge device: DC 60
 Sampling Device: DISP. BAILEY
 Sample Collection Time: 1350
 Sample Appearance/Odor: _____

Summary Data:

Total Gallons Purged: _____
 Purge device: _____
 Sampling Device: _____
 Sample Collection Time: _____
 Sample Appearance/Odor: _____

APPENDIX B

Analytical Laboratory Report and Chain-of-Custody Record

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Bruce Rucker
Stellar Environmental Sol.
2198 Sixth Street Suite 201
Berkeley, CA 94710

Certificate ID: 45072 - 9/12/2005 2:45:16 PM

Order Number: 45072
Project Name: Russ Elliott

Date Received: 08/29/2005
P.O. Number: Russ Elliott
Global ID: T0600102110

Certificate of Analysis - Final Report

On August 29, 2005, samples were received under chain of custody for analysis.
Entech analyzes samples "as received" unless otherwise noted. The following results are included:

<u>Matrix</u>	<u>Test</u>	<u>Comments</u>
Liquid	EDF TPH-Extractable TPH as Gasoline BTEX EPA 8260B EPA 624	

Entech Analytical Labs, Inc. is certified for environmental analyses by the State of California (#2346).
If you have any questions regarding this report, please call us at 408-588-0200 ext. 225.

Sincerely,



Laurie Glantz-Murphy
Laboratory Director

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Stellar Environmental Sol.
2198 Sixth Stree Suite 201
Berkeley, CA 94710
Attn: Bruce Rucker

Date Received: 8/29/2005
Project ID: Russ Elliott
Project Name: Russ Elliott
GlobalID: T0600102110
P.O. Number: Russ Elliott
Sample Collected by: Client

Certificate of Analysis - Data Report

Lab #: 45072-001 Sample ID: MW-1 Matrix: Liquid Sample Date: 8/26/2005 2:15 PM

EPA 3510C EPA 8015 MOD. (Extractable)									TPH-Extractable
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		10	500	µg/L	8/29/2005	DW050829	8/30/2005	DW050829
2900 ppb Motor Oil. No Diesel pattern present.									
Surrogate	Surrogate Recovery		Control Limits (%)						
o-Terphenyl	56.2		22 - 133		Analyzed by: JHsiang Reviewed by: dba				

EPA 5030C EPA 8015 MOD. (Purgeable)									TPH as Gasoline
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	220		1	50	µg/L	N/A	N/A	8/30/2005	WGC4050830A
TPH as Gasoline reported value is a result of high concentration of MTBE within the TPH as Gasoline quantitation range.									
Surrogate	Surrogate Recovery		Control Limits (%)						
4-Bromofluorobenzene	92.5		65 - 135		Analyzed by: mruan Reviewed by: MaiChiTu				

EPA 8020									BTEX
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1	0.50	µg/L	N/A	N/A	8/30/2005	WGC4050830A
Toluene	ND		1	0.50	µg/L	N/A	N/A	8/30/2005	WGC4050830A
Ethyl Benzene	ND		1	0.50	µg/L	N/A	N/A	8/30/2005	WGC4050830A
Xylenes, Total	ND		1	0.50	µg/L	N/A	N/A	8/30/2005	WGC4050830A
Surrogate	Surrogate Recovery		Control Limits (%)						
4-Bromofluorobenzene	93.7		65 - 135		Analyzed by: mruan Reviewed by: MaiChiTu				

EPA 5030C EPA 8260B EPA 624									8260Petroleum
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Methyl-t-butyl Ether	310		5	5.0	µg/L	N/A	N/A	9/5/2005	WM2050905
tert-Butyl Ethyl Ether	ND		5	25	µg/L	N/A	N/A	9/5/2005	WM2050905
tert-Butanol (TBA)	ND		5	50	µg/L	N/A	N/A	9/5/2005	WM2050905
Diisopropyl Ether	ND		5	25	µg/L	N/A	N/A	9/5/2005	WM2050905
tert-Amyl Methyl Ether	ND		5	25	µg/L	N/A	N/A	9/5/2005	WM2050905
1,2-Dichloroethane	ND		5	2.5	µg/L	N/A	N/A	9/5/2005	WM2050905
1,2-Dibromoethane (EDB)	ND		5	2.5	µg/L	N/A	N/A	9/5/2005	WM2050905
Ethanol	ND		5	500	µg/L	N/A	N/A	9/5/2005	WM2050905
Surrogate	Surrogate Recovery		Control Limits (%)						
4-Bromofluorobenzene	110		70 - 125		Analyzed by: MTu Reviewed by: ECunniffe				
Dibromofluoromethane	107		70 - 125						
Toluene-d8	110		70 - 125						

Detection Limit = Detection Limit for Reporting.

ND = Not Detected at or above the Detection Limit.

D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.

Qual = Data Qualifier

9/12/2005 2:45:41 PM - ECunniffe

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Stellar Environmental Sol.
2198 Sixth Stree Suite 201
Berkeley, CA 94710
Attn: Bruce Rucker

Date Received: 8/29/2005
Project ID: Russ Elliott
Project Name: Russ Elliott
GlobalID: T0600102110
P.O. Number: Russ Elliott
Sample Collected by: Client

Certificate of Analysis - Data Report

Lab #: 45072-002 Sample ID: MW-2 Matrix: Liquid Sample Date: 8/26/2005 2:05 PM

EPA 3510C EPA 8015 MOD. (Extractable)									TPH-Extractable
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		1	50	µg/L	8/29/2005	DW050829	8/30/2005	DW050829
550 ppb Motor Oil. No Diesel pattern present.									
Surrogate	Surrogate Recovery	Control Limits (%)							
o-Terphenyl	41.0	22 - 133		Analyzed by: JHsiang Reviewed by: dba					

EPA 5030C EPA 8015 MOD. (Purgeable)									TPH as Gasoline
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	110		1	50	µg/L	N/A	N/A	8/30/2005	WGC4050830A
TPH as Gasoline reported value is a result of high concentration of MTBE within the TPH as Gasoline quantitation range.									
Surrogate	Surrogate Recovery	Control Limits (%)							
4-Bromofluorobenzene	97.3	65 - 135		Analyzed by: mruan Reviewed by: MaiChiTu					

EPA 8020									BTEX
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1	0.50	µg/L	N/A	N/A	8/30/2005	WGC4050830A
Toluene	ND		1	0.50	µg/L	N/A	N/A	8/30/2005	WGC4050830A
Ethyl Benzene	ND		1	0.50	µg/L	N/A	N/A	8/30/2005	WGC4050830A
Xylenes, Total	ND		1	0.50	µg/L	N/A	N/A	8/30/2005	WGC4050830A
Surrogate	Surrogate Recovery	Control Limits (%)							
4-Bromofluorobenzene	93.2	65 - 135		Analyzed by: mruan Reviewed by: MaiChiTu					

EPA 5030C EPA 8260B EPA 624									8260Petroleum
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Methyl-t-butyl Ether	120		1	1.0	µg/L	N/A	N/A	9/3/2005	WM2050902
tert-Butyl Ethyl Ether	ND		1	5.0	µg/L	N/A	N/A	9/3/2005	WM2050902
tert-Butanol (TBA)	ND		1	10	µg/L	N/A	N/A	9/3/2005	WM2050902
Diisopropyl Ether	ND		1	5.0	µg/L	N/A	N/A	9/3/2005	WM2050902
tert-Amyl Methyl Ether	ND		1	5.0	µg/L	N/A	N/A	9/3/2005	WM2050902
1,2-Dichloroethane	ND		1	0.50	µg/L	N/A	N/A	9/3/2005	WM2050902
1,2-Dibromoethane (EDB)	ND		1	0.50	µg/L	N/A	N/A	9/3/2005	WM2050902
Ethanol	ND		1	100	µg/L	N/A	N/A	9/3/2005	WM2050902
Surrogate	Surrogate Recovery	Control Limits (%)							
4-Bromofluorobenzene	108	70 - 125		Analyzed by: MTu Reviewed by: ECunniffe					
Dibromofluoromethane	99.3	70 - 125							
Toluene-d8	111	70 - 125							

Detection Limit = Detection Limit for Reporting.

ND = Not Detected at or above the Detection Limit.

D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.

Qual = Data Qualifier

9/12/2005 2:45:42 PM - ECunniffe

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Stellar Environmental Sol.
2198 Sixth Stree Suite 201
Berkeley, CA 94710
Attn: Bruce Rucker

Date Received: 8/29/2005
Project ID: Russ Elliott
Project Name: Russ Elliott
GlobalID: T0600102110
P.O. Number: Russ Elliott
Sample Collected by: Client

Certificate of Analysis - Data Report

Lab #: 45072-003 Sample ID: MW-3 Matrix: Liquid Sample Date: 8/26/2005 1:50 PM

EPA 3510C EPA 8015 MOD. (Extractable)									TPH-Extractable	
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch	
TPH as Diesel	ND		1	50	µg/L	8/29/2005	DW050829	8/30/2005	DW050829	
Surrogate	Surrogate Recovery		Control Limits (%)					Analyzed by: JHsiang		
o-Terphenyl	56.7		22	- 133				Reviewed by: dba		

EPA 5030C EPA 8015 MOD. (Purgeable)									TPH as Gasoline	
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch	
TPH as Gasoline	ND		1	50	µg/L	N/A	N/A	8/30/2005	WGC4050830A	
Surrogate	Surrogate Recovery		Control Limits (%)					Analyzed by: mruan		
4-Bromofluorobenzene	99.7		65	- 135				Reviewed by: MaiChiTu		

EPA 8020									BTEX	
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch	
Benzene	ND		1	0.50	µg/L	N/A	N/A	8/30/2005	WGC4050830A	
Toluene	ND		1	0.50	µg/L	N/A	N/A	8/30/2005	WGC4050830A	
Ethyl Benzene	ND		1	0.50	µg/L	N/A	N/A	8/30/2005	WGC4050830A	
Xylenes, Total	ND		1	0.50	µg/L	N/A	N/A	8/30/2005	WGC4050830A	
Surrogate	Surrogate Recovery		Control Limits (%)					Analyzed by: mruan		
4-Bromofluorobenzene	96.2		65	- 135				Reviewed by: MaiChiTu		

EPA 5030C EPA 8260B EPA 624									8260Petroleum	
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch	
Methyl-t-butyl Ether	ND		1	1.0	µg/L	N/A	N/A	9/3/2005	WM2050902	
tert-Butyl Ethyl Ether	ND		1	5.0	µg/L	N/A	N/A	9/3/2005	WM2050902	
tert-Butanol (TBA)	ND		1	10	µg/L	N/A	N/A	9/3/2005	WM2050902	
Diisopropyl Ether	ND		1	5.0	µg/L	N/A	N/A	9/3/2005	WM2050902	
tert-Amyl Methyl Ether	ND		1	5.0	µg/L	N/A	N/A	9/3/2005	WM2050902	
1,2-Dichloroethane	ND		1	0.50	µg/L	N/A	N/A	9/3/2005	WM2050902	
1,2-Dibromoethane (EDB)	ND		1	0.50	µg/L	N/A	N/A	9/3/2005	WM2050902	
Ethanol	ND		1	100	µg/L	N/A	N/A	9/3/2005	WM2050902	
Surrogate	Surrogate Recovery		Control Limits (%)					Analyzed by: MTu		
4-Bromofluorobenzene	110		70	- 125				Reviewed by: ECunniffe		
Dibromofluoromethane	101		70	- 125						
Toluene-d8	110		70	- 125						

Detection Limit = Detection Limit for Reporting.

D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.

ND = Not Detected at or above the Detection Limit.

Qual = Data Qualifier

9/12/2005 2:45:42 PM - ECunniffe

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Laboratory Control Sample / Duplicate - Liquid - EPA 8015 MOD. (Extractable) - TPH-Extractable

QC/Prep Batch ID: DW050829

Reviewed by: dba - 08/31/05

QC/Prep Date: 8/29/2005

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
TPH as Diesel	<50	1000	948	µg/L	94.8	40 - 138
TPH as Motor Oil	<200	1000	822	µg/L	82.2	40 - 138
Surrogate	% Recovery	Control Limits				
o-Terphenyl	95.5	22 - 133				

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Diesel	<50	1000	848	µg/L	84.8	11	25.0	40 - 138
TPH as Motor Oil	<200	1000	809	µg/L	80.9	1.6	25.0	40 - 138
Surrogate	% Recovery	Control Limits						
o-Terphenyl	87.2	22 - 133						

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Laboratory Control Sample / Duplicate - Liquid - EPA 8015 MOD. (Purgeable) - TPH as Gasoline

QC Batch ID: WGC4050830A

Reviewed by: MaiChiTu - 09/01/05

QC Batch ID Analysis Date: 8/30/2005

LCS						
Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
TPH as Gasoline	<50	250	240	µg/L	96.0	65 - 135
Surrogate	% Recovery	Control Limits				
4-Bromofluorobenzene	98.6	65 - 135				

LCS D								
Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Gasoline	<50	250	224	µg/L	89.6	6.9	25.0	65 - 135
Surrogate	% Recovery	Control Limits						
4-Bromofluorobenzene	102	65 - 135						

Laboratory Control Sample / Duplicate - Liquid - EPA 8020 - BTEX

QC Batch ID: WGC4050830A

Reviewed by: MaiChiTu - 09/01/05

QC Batch ID Analysis Date: 8/30/2005

LCS						
Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
Benzene	<0.50	8.0	7.67	µg/L	95.9	65 - 135
Ethyl Benzene	<0.50	8.0	7.50	µg/L	93.8	65 - 135
Toluene	<0.50	8.0	8.00	µg/L	100	65 - 135
Xylenes, total	<0.50	24	22.6	µg/L	94.1	65 - 135
Surrogate	% Recovery	Control Limits				
4-Bromofluorobenzene	93.3	65 - 135				

LCS D								
Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
Benzene	<0.50	8.0	8.08	µg/L	101	5.2	25.0	65 - 135
Ethyl Benzene	<0.50	8.0	7.71	µg/L	96.4	2.8	25.0	65 - 135
Toluene	<0.50	8.0	8.28	µg/L	104	3.4	25.0	65 - 135
Xylenes, total	<0.50	24	23.2	µg/L	96.7	2.7	25.0	65 - 135
Surrogate	% Recovery	Control Limits						
4-Bromofluorobenzene	96	65 - 135						

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Matrix Spike / Matrix Spike Duplicate - Liquid - EPA 8015 MOD. (Purgeable) - TPH as Gasoline

QC Batch ID: WGC4050830A

Reviewed by: MaiChiTu - 09/01/05

QC Batch ID Analysis Date: 8/30/2005

MS

Sample Spiked: 45072-003

Parameter	Sample Result	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	Recovery Limits
TPH as Gasoline	ND	250	231	µg/L	8/30/2005	92.4	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	98.8	65 - 135

MSD

Sample Spiked: 45072-003

Parameter	Sample Result	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Gasoline	ND	250	243	µg/L	8/30/2005	97.2	5.1	25.0	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	101	65 - 135

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Matrix Spike / Matrix Spike Duplicate - Liquid - EPA 8020 - BTEX

QC Batch ID: WGC4050830A

Reviewed by: MaiChiTu - 09/01/05

QC Batch ID Analysis Date: 8/30/2005

MS

Sample Spiked: 45072-003

Parameter	Sample Result	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	Recovery Limits
Benzene	ND	2.8	2.77	µg/L	8/30/2005	98.5	65 - 135
Ethyl Benzene	ND	3.7	3.06	µg/L	8/30/2005	82.7	65 - 135
Toluene	ND	16	15.6	µg/L	8/30/2005	95.2	65 - 135
Xylenes, total	ND	20	16.6	µg/L	8/30/2005	85.2	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	104	65 - 135

MSD

Sample Spiked: 45072-003

Parameter	Sample Result	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	RPD	RPD Limits	Recovery Limits
Benzene	ND	2.8	2.81	µg/L	8/30/2005	100	1.4	25.0	65 - 135
Ethyl Benzene	ND	3.7	2.83	µg/L	8/30/2005	76.5	7.8	25.0	65 - 135
Toluene	ND	16	14.6	µg/L	8/30/2005	89.2	6.5	25.0	65 - 135
Xylenes, total	ND	20	16.2	µg/L	8/30/2005	83.1	2.6	25.0	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	105	65 - 135

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Method Blank - Liquid - EPA 8260B - 8260Petroleum

QC Batch ID: WM2050902

Validated by: ECunniffe - 09/06/05

QC Batch Analysis Date: 9/2/2005

Parameter	Result	DF	PQLR	Units
1,2-Dibromoethane (EDB)	ND	1	0.50	µg/L
1,2-Dichloroethane	ND	1	0.50	µg/L
Diisopropyl Ether	ND	1	5.0	µg/L
Ethanol	ND	1	100	µg/L
Methyl-t-butyl Ether	ND	1	1.0	µg/L
tert-Amyl Methyl Ether	ND	1	5.0	µg/L
tert-Butanol (TBA)	ND	1	10	µg/L
tert-Butyl Ethyl Ether	ND	1	5.0	µg/L

Surrogate for Blank	% Recovery	Control Limits
4-Bromofluorobenzene	111	70 - 125
Dibromofluoromethane	100	70 - 125
Toluene-d8	110	70 - 125

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Laboratory Control Sample / Duplicate - Liquid - EPA 8260B - 8260Petroleum

QC Batch ID: WM2050902

Reviewed by: ECunniffe - 09/06/05

QC Batch ID Analysis Date: 9/2/2005

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
1,1-Dichloroethene	<0.50	20	18.4	µg/L	91.8	70 - 130
Benzene	<0.50	20	21.3	µg/L	107	70 - 130
Chlorobenzene	<0.50	20	22.6	µg/L	113	70 - 130
Methyl-t-butyl Ether	<1.0	20	19.0	µg/L	94.9	70 - 130
Toluene	<0.50	20	22.0	µg/L	110	70 - 130
Trichloroethene	<0.50	20	22.7	µg/L	113	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	112	70 - 125
Dibromofluoromethane	102	70 - 125
Toluene-d8	109	70 - 125

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
1,1-Dichloroethene	<0.50	20	18.2	µg/L	91.0	0.90	25.0	70 - 130
Benzene	<0.50	20	20.8	µg/L	104	2.6	25.0	70 - 130
Chlorobenzene	<0.50	20	21.6	µg/L	108	4.2	25.0	70 - 130
Methyl-t-butyl Ether	<1.0	20	17.9	µg/L	89.6	5.7	25.0	70 - 130
Toluene	<0.50	20	21.3	µg/L	106	3.4	25.0	70 - 130
Trichloroethene	<0.50	20	22.1	µg/L	110	2.7	25.0	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	110	70 - 125
Dibromofluoromethane	102	70 - 125
Toluene-d8	108	70 - 125

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Method Blank - Liquid - EPA 8260B - 8260Petroleum

QC Batch ID: WM2050905

Validated by: ECunniffe - 09/07/05

QC Batch Analysis Date: 9/5/2005

Parameter	Result	DF	PQLR	Units
1,2-Dibromoethane (EDB)	ND	1	0.50	µg/L
1,2-Dichloroethane	ND	1	0.50	µg/L
Diisopropyl Ether	ND	1	5.0	µg/L
Ethanol	ND	1	100	µg/L
Methyl-t-butyl Ether	ND	1	1.0	µg/L
tert-Amyl Methyl Ether	ND	1	5.0	µg/L
tert-Butanol (TBA)	ND	1	10	µg/L
tert-Butyl Ethyl Ether	ND	1	5.0	µg/L

Surrogate for Blank	% Recovery	Control Limits
4-Bromofluorobenzene	108	70 - 125
Dibromofluoromethane	98.9	70 - 125
Toluene-d8	110	70 - 125

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Laboratory Control Sample / Duplicate - Liquid - EPA 8260B - 8260Petroleum

QC Batch ID: WM2050905

Reviewed by: ECunniffe - 09/07/05

QC Batch ID Analysis Date: 9/5/2005

LCS						
Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
1,1-Dichloroethene	<0.50	20	18.2	µg/L	91.2	70 - 130
Benzene	<0.50	20	21.0	µg/L	105	70 - 130
Chlorobenzene	<0.50	20	21.8	µg/L	109	70 - 130
Methyl-t-butyl Ether	<1.0	20	17.8	µg/L	89.0	70 - 130
Toluene	<0.50	20	21.1	µg/L	106	70 - 130
Trichloroethene	<0.50	20	22.1	µg/L	111	70 - 130
Surrogate	% Recovery	Control Limits				
4-Bromofluorobenzene	109	70 - 125				
Dibromofluoromethane	99	70 - 125				
Toluene-d8	107	70 - 125				

LCSD								
Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
1,1-Dichloroethene	<0.50	20	18.4	µg/L	92.2	1.1	25.0	70 - 130
Benzene	<0.50	20	21.4	µg/L	107	1.8	25.0	70 - 130
Chlorobenzene	<0.50	20	22.4	µg/L	112	2.4	25.0	70 - 130
Methyl-t-butyl Ether	<1.0	20	18.5	µg/L	92.5	3.9	25.0	70 - 130
Toluene	<0.50	20	21.9	µg/L	109	3.6	25.0	70 - 130
Trichloroethene	<0.50	20	22.7	µg/L	114	2.5	25.0	70 - 130
Surrogate	% Recovery	Control Limits						
4-Bromofluorobenzene	108	70 - 125						
Dibromofluoromethane	99.1	70 - 125						
Toluene-d8	106	70 - 125						

APPENDIX C

Wastewater Disposal Documentation

**Wastewater Profile Sample
Laboratory Report**



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

A N A L Y T I C A L R E P O R T

Prepared for:

Stellar Environmental Solutions
2198 6th Street
Suite 201
Berkeley, CA 94710

Date: 27-JUN-05

Lab Job Number: 180132

Project ID: 2003-43

Location: Former Russ Elliot Fac.

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Reviewed by: 
Project Manager

Reviewed by: 
Operations Manager

This package may be reproduced only in its entirety.

CASE NARRATIVE

Laboratory number: 180132
Client: Stellar Environmental Solutions
Project: 2003-43
Location: Former Russ Elliot Fac.
Request Date: 06/21/05
Samples Received: 06/21/05

This hardcopy data package contains sample and QC results for one water sample, requested for the above referenced project on 06/21/05. The sample was received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B and EPA 8021B):

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):

No analytical problems were encountered.

180132

Chain of Custody Record

Lab job no. _____
Date _____
Page 1 of 1

Laboratory Curtis and Tompkins, Ltd. Method of Shipment Hand Delivery
 Address 2323 Fifth Street Shipment No. _____
Berkeley, California 94710 Airbill No. _____
510-486-0900 Cooler No. _____
 Project Owner Ms. Jeannette Elliott Project Manager Bruce Rucker
 Site Address 2526 Wood Street Telephone No. (510) 644-3123
Oakland, California Fax No. (510) 644-3859
 Project Name Former Russ Elliott Facility Samplers: (Signature) [Signature]
 Project Number 2003-43

No. of Containers	Analysis Required										Remarks	
	TEHC	TVHg	BTEX	MtBE								
1	X											
3		X										

Field Sample Number	Location/Depth	Date	Time	Sample Type	Type/Size of Container	Preservation											
						Cooler	Chemical										
Drum Water Comp	N/A	06/21	12:00	H2O	1-L amber glass	yes	none										
					40 ml VOAs	yes	HCl										

Relinquished by: Signature <u>[Signature]</u> Printed <u>Joe Dinan</u> Company <u>Stellar Environmental</u>	Date <u>06/21/2005</u> Time <u>12:40</u>	Received by: Signature <u>[Signature]</u> Printed <u>Lavonne Castro</u> Company <u>C+T</u>	Date <u>6/21/05</u> Time <u>12:40</u>	Relinquished by: Signature _____ Printed _____ Company _____	Date _____ Time _____	Received by: Signature _____ Printed _____ Company _____	Date _____ Time _____
Turnaround Time: <u>5 Day TAT</u>				Relinquished by: Signature _____ Printed _____ Company _____	Date _____ Time _____	Received by: Signature _____ Printed _____ Company _____	Date _____ Time _____
Comments: <u>Sample is a composite of 3 55-gallon drums.</u>							

2000-00-01

collected & intact.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	180132	Location:	Former Russ Elliot Fac.
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2003-43		
Field ID:	DRUM WATER COMP	Batch#:	103124
Matrix:	Water	Sampled:	06/21/05
Units:	ug/L	Received:	06/21/05
Diln Fac:	1.000	Analyzed:	06/21/05

Type: SAMPLE Lab ID: 180132-001

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
m,p-Xylenes	ND	0.50	EPA 8021B
o-Xylene	ND	0.50	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	90	63-141	EPA 8015B
Bromofluorobenzene (FID)	91	79-139	EPA 8015B
Trifluorotoluene (PID)	90	63-133	EPA 8021B
Bromofluorobenzene (PID)	96	79-128	EPA 8021B

Type: BLANK Lab ID: QC298160

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
m,p-Xylenes	ND	0.50	EPA 8021B
o-Xylene	ND	0.50	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	93	63-141	EPA 8015B
Bromofluorobenzene (FID)	92	79-139	EPA 8015B
Trifluorotoluene (PID)	94	63-133	EPA 8021B
Bromofluorobenzene (PID)	99	79-128	EPA 8021B

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	180132	Location:	Former Russ Elliot Fac.
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2003-43	Analysis:	EPA 8021B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC298161	Batch#:	103124
Matrix:	Water	Analyzed:	06/21/05
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
MTBE	20.00	20.89	104	67-125
Benzene	20.00	20.99	105	80-120
Toluene	20.00	21.33	107	80-120
Ethylbenzene	20.00	21.57	108	80-120
m,p-Xylenes	20.00	21.99	110	80-120
o-Xylene	20.00	21.66	108	80-120

Surrogate	%REC	Limits
Trifluorotoluene (PID)	96	63-133
Bromofluorobenzene (PID)	101	79-128

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	180132	Location:	Former Russ Elliot Fac.
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2003-43	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC298162	Batch#:	103124
Matrix:	Water	Analyzed:	06/21/05
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	2,069	103	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	112	63-141
Bromofluorobenzene (FID)	102	79-139

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	180132	Location:	Former Russ Elliot Fac.
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2003-43	Analysis:	EPA 8015B
Field ID:	DRUM WATER COMP	Batch#:	103124
MSS Lab ID:	180132-001	Sampled:	06/21/05
Matrix:	Water	Received:	06/21/05
Units:	ug/L	Analyzed:	06/21/05
Diln Fac:	1.000		

Type: MS Lab ID: QC298211

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	25.34	2,000	1,954	96	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	63-141
Bromofluorobenzene (FID)	94	79-139

Type: MSD Lab ID: QC298212

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	2,024	100	80-120	4	20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	104	63-141
Bromofluorobenzene (FID)	95	79-139

RPD= Relative Percent Difference

Chromatogram

Sample Name : 180132-001,103242

FileName : G:\GC11\CHA\175A009.RAW

Method : ATEH156S.MTH

Start Time : 0.01 min

End Time : 20.45 min

Scale Factor: 0.0

Plot Offset: 18 mV

Sample #: 103242

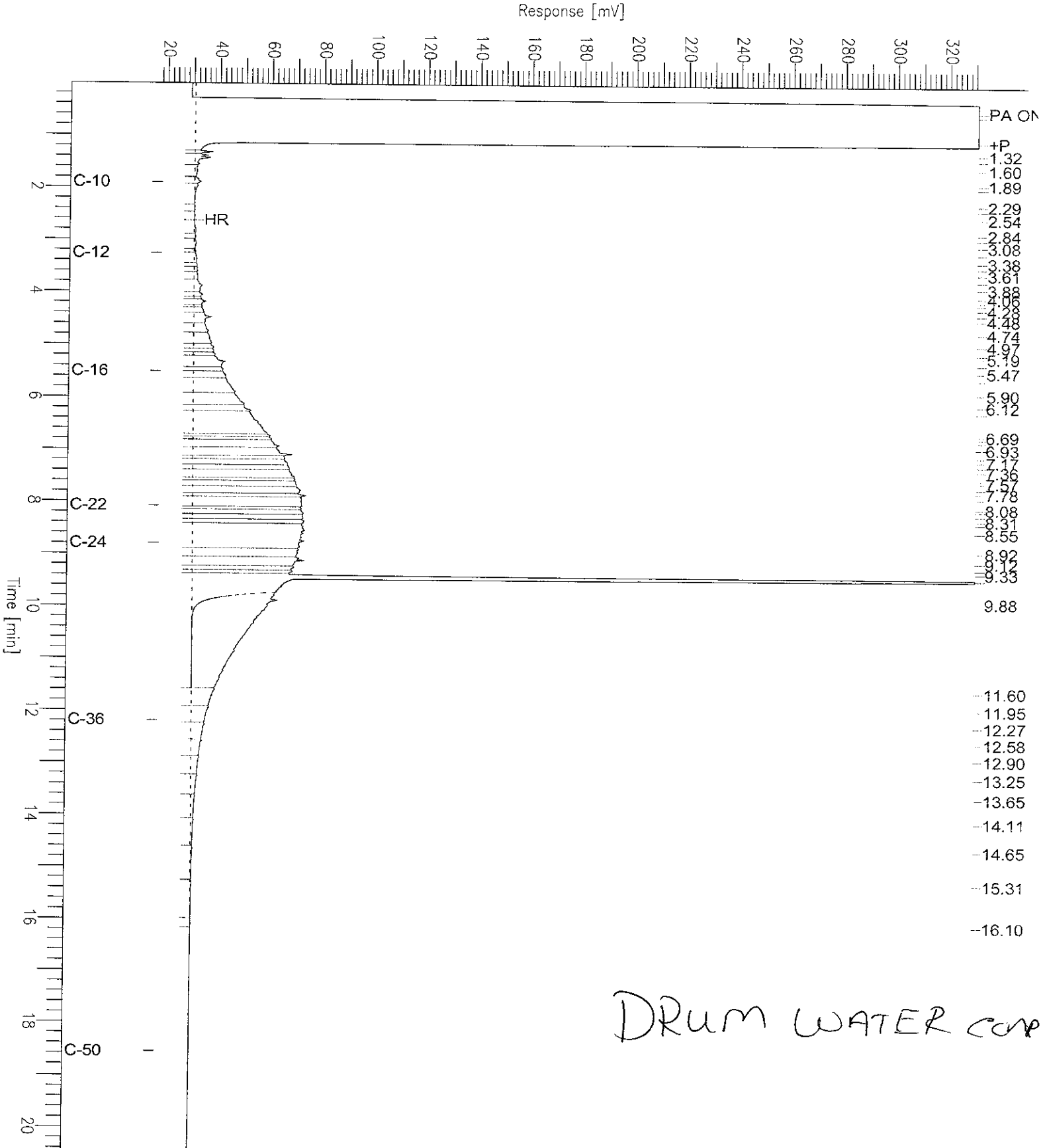
Date : 6/26/05 11:24 AM

Time of Injection: 6/24/05 08:34 PM

Low Point : 17.94 mV

High Point : 330.71 mV

Page 1 of 1



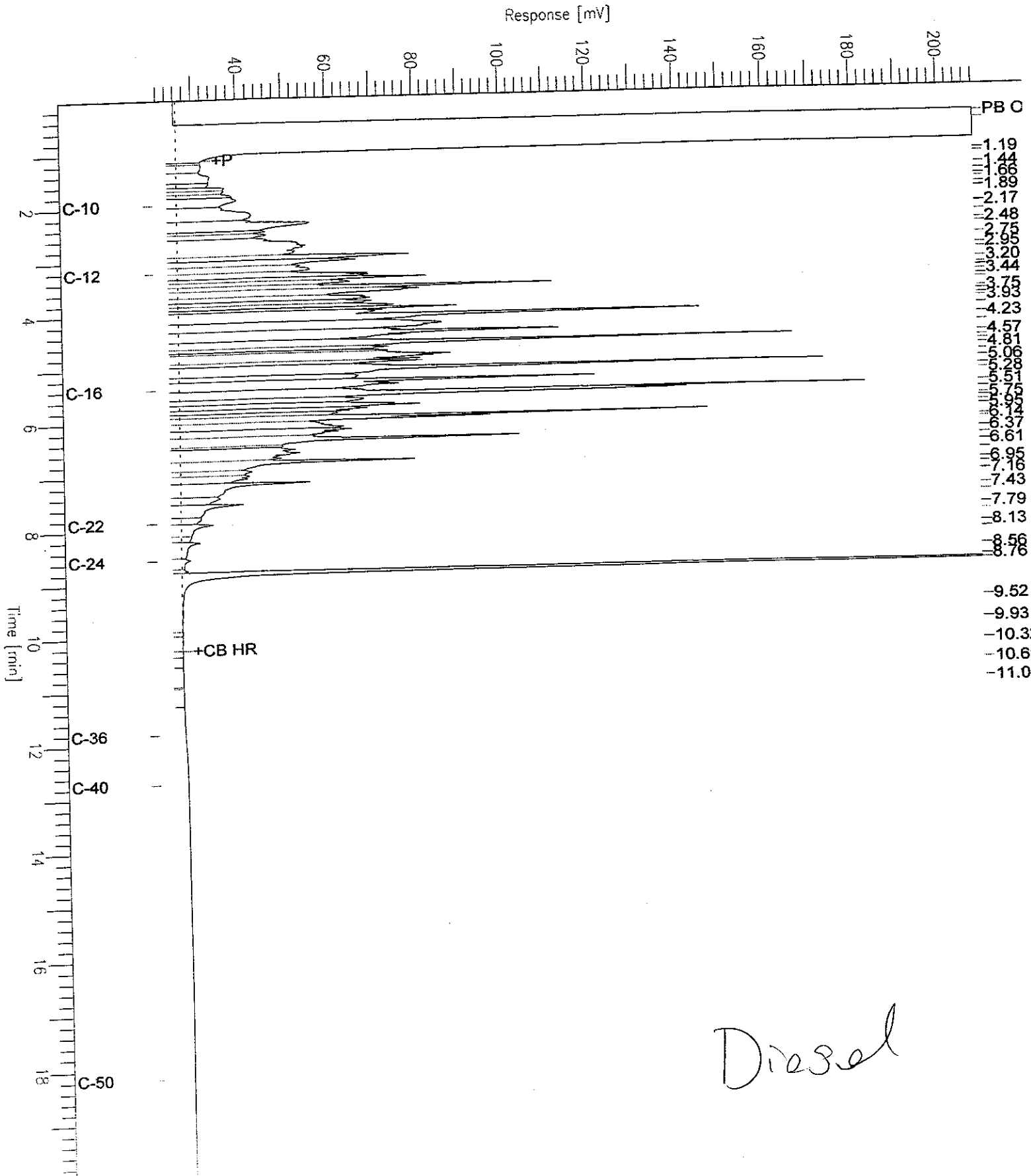
Chromatogram

Sample Name : ccv,S778,dsl
FileName : G:\GC15\CHB\175B003.RAW
Method : BTEH159S.MTH
Start Time : 0.01 min
Scale Factor: 0.0

End Time : 19.97 min
Plot Offset: 21 mV

Sample #: 500mg/L
Date : 6/24/05 11:19 AM
Time of Injection: 6/24/05 10:12 AM
Low Point : 21.07 mV
Plot Scale: 187.1 mV

High Point : 208.17 mV



Batch QC Report

Total Extractable Hydrocarbons

Lab #:	180132	Location:	Former Russ Elliot Fac.
Client:	Stellar Environmental Solutions	Prep:	EPA 3520C
Project#:	2003-43	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	103242
Units:	ug/L	Prepared:	06/23/05
Diln Fac:	1.000	Analyzed:	06/24/05

Type: BS Cleanup Method: EPA 3630C
 Lab ID: QC298618

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,750	110	50-133

Surrogate	%REC	Limits
Hexacosane	116	55-143

Type: BSD Cleanup Method: EPA 3630C
 Lab ID: QC298619

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,706	108	50-133	2	40

Surrogate	%REC	Limits
Hexacosane	117	55-143

Wastewater Profile and Transport Documentation

D/K Environmental
3650 East 26th Street
Vernon, CA. 90023
Tel: (323) 268-5056
Fax: (323) 268-9672
EPA # CAT 030033681

Hazardous Waste Profile Sheet

Price: _____ Category: _____

For office use only, do not write in this area

Comments: _____

Waste description, qualifying parameters and price are based on profile submitted

Waste I.D. # (Assigned by DKE)

A. CUSTOMER INFORMATION

Name of Company North State Environmental EPA ID # CA9 000 159 459
Facility Address 815 Dubuque Avenue Mailing Address PO Box 2148
So. San Francisco, CA 94080 PO Box 214 So. San Francisco, CA 94083
Contact Tercy Hoehne Title Sales Mgr. Phone () 650.588.2838 Fax () 650.588.1950

B. GENERATOR INFORMATION (if different than customer)

Name of Company Ms. Joanne Elliott USEPA # NA
Facility Address 2526 Wood Street 24 Hour Contact Tercy Hoehne Phone () 650.588.2838
Oakland, CA Contact Same Title Sales Mgr. Phone () Same Fax () 650.588.1950

C. WASTE STREAM INFORMATION

Waste Name WATERY Process Generating Waste Site Assessment
Packaging: Bulk Liquid Bulk Solid Lab Pack Drums Size 55 gal. Other Gas Tank
Volume 355 gal. Gallons Lbs. Cubic Yards Per. Month Quarter Year

D. PHYSICAL CHARACTERISTICS OF WASTE

1. General Characteristics
Color clear Liquid 100 % free
Odor Solid Single Layer
 None Strong Sludge Double Layer
 Mild Powder Multi Layer

2. Specific Gravity
 <0.8 1.4-1.7
 0.8-1.0 >1.7
 1.0-1.2 Exact
 1.2-1.4

3. Flash Point
 <100F 200F
 100-140F
 140-200F
Method _____

4. pH: <2 2-4 4-7 7 7-10 10-12.5 >12.5 Range _____

E. CHEMICAL COMPOSITION

WATERY 100 %

	%
	%
	%
	%
	%
	%
TOTAL	100%

F. METALS

YES	NO	PPM	YES	NO	PPM
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Arsenic(As)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Mercury(Hg)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Barium(Ba)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Nickel(Ni)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Cadmium(Cd)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Selenium(Se)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Chromium(Cr)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Silver(Ag)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Copper(Cu)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Thallium(Tl)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Lead(Pb)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Zinc(Zn)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	(Hexa) Chrome	<input type="checkbox"/>	<input type="checkbox"/>	Other
<input type="checkbox"/>	<input type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>	Other

Total, ppm Extract(TCLP)

5. Is this waste subject to RCRA Subpart C Controls? Yes No Volatile Organic concentration, if known _____ ppmw

6. Is this waste subject to Benzene Waste Operation NESHAP? YES NO. If yes, what is the SIC code for operations generating this waste?

7. If this waste includes any RCRA Codes D001 through D043, can this waste reasonably be expected to exceed the 40CFR268.48 Universal Treatment Standards (UT) for any Underlying Hazardous Constituent(s)? YES NO. If yes, complete Attachment 1 UTS Table.

8. This waste is (check one): Wastewater Non-wastewater

9. Does wastewater treatment of this waste generate an F006 or F019 waste? YES NO

G. HAZARDOUS CHARACTERISTICS (From CFR-40) Is the waste?

None Pyrophoric Infectious/Pathogenic Reactive
 Radioactive PCBs Explosive/Shock Sensitive Pesticides/Herbicides

H. OTHER COMPONENTS

YES	NO	PPM
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Cyanides
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Chelating Agents
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Silicates
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Ammonia
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Phosphates
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Phenols
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Halogenated Organics
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Aromatic Hydrocarbons

I. SHIPPING INFORMATION

D.O.T. Proper Shipping Name Water, non-hazardous waste liquid
UNNA # _____ Hazardous Class _____ R.O. _____
RCRA Waste? Yes No Code _____
CA Hazardous Waste? Yes No Code _____

"I hereby certify that this waste is non-hazardous in accordance with both Federal and State of California Hazardous Waste Statutes and Regulations."
(check here if you are certifying that this waste is non-hazardous)

Special Handling Information

I certify and warrant that the above information, the information attached, and the waste stream as described is true and correct to the best of my knowledge and ability so will deliberate omissions exist, and that all hazards have been disclosed, and that a sample has been or is being sent to the proper facility. If this certification is made by a broker, I am authorized as an authorized agent of the generator, and has confirmed the information contained in this Profile Sheet from information provided by the generator additional information as it has determined to be reasonably necessary.

Joanne Elliott SIGNATURE

Sales Mgr. TITLE

6/28/05 DATE

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <p style="text-align: center; font-size: 1.2em;">N/A</p>		Manifest Document No. N750274		2. Page 1 of	
3. Generator's Name and Mailing Address JEANETTE ELLIOTT 1744 SKYVIEW DRIVE, SAN LEANDRO, CA 94577				SITE = 2526 WOOD STREET OAKLAND, CA			
4. Generator's Phone (SAN LEANDRO, CA 94577) (510) 644-3123				6. US EPA ID Number		A. State Transporter's ID	
5. Transporter 1 Company Name NORTH STATE ENVIRONMENTAL				8. US EPA ID Number		B. Transporter 1 Phone	
7. Transporter 2 Company Name				10. US EPA ID Number		C. State Transporter's ID	
9. Designated Facility Name and Site Address D, K. ENVIRONMENTAL 3650 EAST 26TH STREET, LOS ANGELES, CA 90223				10. US EPA ID Number		D. Transporter 2 Phone	
						E. State Facility's ID	
						F. Facility's Phone (323) 268-5056	
11. WASTE DESCRIPTION				12. Containers		13. Total Quantity	14. Unit Wt./Vol.
				No.	Type		
a. NON-HAZARDOUS WASTE, LIQUID (WATER)				3	DM	165	G
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above A. 350629-15				H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name MICHAEL DINGA				Signature 		Date 7/6/05	
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature 		Date 7/6/05	
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Date	
19. Discrepancy Indication Space							
20. Facility Owner or Operator, Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name				Signature		Date Month Day Year	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

APPENDIX D

Historical Groundwater Monitoring Well Analytical Results

Table D-1
Historical Groundwater Monitoring Well Groundwater Analytical Results
2526 Wood Street, Oakland

Sample I.D.	TEHd	TVHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Fuel Oxygenates ^(a)
February 2004 Event								
MW-1	<50	172	1.2	<0.5	<0.5	<1.0	578	TAME = 3 TBA = 19
MW-2	<50	72	<0.5	<0.5	<0.5	<1.0	16.4	<i>ND</i>
MW-3	<50	58	<0.5	0.6	<0.5	<1.0	<0.5	<i>ND</i>
May 2004 Event								
MW-1	<50	< 50	<0.5	<0.5	<0.5	<1.0	399	TAME = 2
MW-2	<50	83	<0.5	<0.5	<0.5	<1.0	1,230	TAME = 52 DIPE = 0.6 TBA = 243
MW-3	<50	< 50	<0.5	<0.5	<0.5	<1.0	<0.5	<i>ND</i>
August 2004 Event								
MW-1	<50	< 50	<0.5	<0.5	<0.5	<1.0	1,210	TAME = 3 TBA = 78
MW-2	<50	< 50	<0.5	<0.5	<0.5	<1.0	769	TAME = 6 TBA = 81
MW-3	<50	< 50	<0.5	<0.5	<0.5	<1.0	<0.5	<i>ND</i>
November 2004 Event								
MW-1	<50	< 50	<0.5	<0.5	<0.5	<1.0	83	<i>ND</i>
MW-2	<50	271	102	<0.5	<0.5	1.3	1,820	TAME = 139 TBA = 486
MW-3	<50	< 50	<0.5	<0.5	<0.5	<1.0	<0.5	<i>ND</i>
February 2005 Event								
MW-1	<50	< 50	<0.5	<0.5	<0.5	<1.0	12.6	<i>ND</i>
MW-2	<50	< 50	<0.5	<0.5	<0.5	<1.0	4.8	<i>ND</i>
MW-3	<50	< 50	<0.5	<0.5	<0.5	<1.0	<0.5	<i>ND</i>

Table D-1 continued

Sample I.D.	TEHd	TVHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Fuel Oxygenates ^(a)
May 2005 Event								
MW-1	<50	< 50	<0.5	<0.5	<0.5	<1.0	116	ND
MW-2	<50	< 50	<0.5	<0.5	<0.5	<1.0	100	TAME = 4 TBA = 48
MW-3	<50	< 50	<0.5	<0.5	<0.5	<1.0	<0.5	ND
August 2005 Event								
MW-1	<500	220	<0.5	<0.5	<0.5	<1.0	310	ND
MW-2	<50	110	<0.5	<0.5	<0.5	<1.0	100	ND
MW-3	<50	< 50	<0.5	<0.5	<0.5	<1.0	<1.0	ND

Notes:

^(a) Table reports only detected fuel oxygenates and lead scavengers.

DIPE = di-isopropyl ether.

MTBE = methyl *tertiary*-butyl ether;

TBA = *tertiary*-butyl alcohol

TEHd = total extractable hydrocarbons – diesel range

TVHg = total volatile hydrocarbons – gasoline range

TAME = *tertiary*-amyl methyl ether

ND = not detected above method reporting limits

All results in µg/L.