

REMOVAL ACTION OVERSIGHT AND DOCUMENTATION

At

**Downtown Oakland CNG Station
205/209 Brush Street
Oakland, CA 94607**

Prepared for

**Port of Oakland
Environmental Programs & Safety Department
530 Water Street
Oakland, CA 94607**

Prepared by

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ACRONYMS

bgs	Below ground surface
BTEX	Benzene, toluene, ethylbenzene, and xylenes
CNG	Compressed natural gas
CUPA	Certified Unified Programs Agency
ESA	Environmental Site Assessment
ESL	Environmental screening level
ISI	Inspection Services Incorporated
MTBE	Methyl tertiary-butyl ether
ND	Not detected
OFD	Oakland Fire Department, Hazardous Materials Unit
OFSA	Oakland Fire Service Agency
pcf	Pounds per cubic foot
PID	Photo-ionization detector
PPE	Personal protection equipment
ppm	Parts per million
RL	Reporting Limit
R&M	R&M Environmental and Infrastructure Engineering, Inc.
TPH-d	Total petroleum hydrocarbons as diesel
TPH-g	Total petroleum hydrocarbons as gasoline
UST	Underground storage tank
VOC	Volatile organic compound

EXECUTIVE SUMMARY

S.1 PROJECT BACKGROUND AND OBJECTIVES

While excavating soil to construct a pad for a compressed natural gas (CNG) fueling station at a Port of Oakland-owned property located at 205/209 Brush Street in downtown Oakland, California, the construction contractor (Clean Energy, Seal Beach, CA) encountered soil that was darker in color and had a solvent-like odor. Based on this observation and the close proximity of the site to a location of former leaking underground storage tanks (UST; See Figure S-1), the impacted soil was considered to be possibly due a previous "unauthorized release" requiring an investigation to determine the nature and extent of contamination and, possibly, a remedial action, as required by regulations¹. All excavation activities were thus halted (on April 16, 2007) pending such an investigation that consisted of collection and analysis of two soil samples from the impacted area. The analyses revealed the presence of certain volatile organic compounds (VOC), including acetone. The Port of Oakland (Port) undertook a removal action whereby the impacted soil within the footprint of the building pad was excavated to the water table. This removal action prevented further impacts to the groundwater from the contaminants in soil within the footprint of the building pad. The Confirmation soil samples were collected before the excavation was backfilled with clean imported backfill material and compacted. An estimated 200 cubic yards of impacted soil was taken to Altamont Landfill in Livermore, CA for disposal. The removal action was initiated on Wednesday, April 25, 2007 and was completed on Monday, April 30, 2007. The removal action had to be conducted very quickly to allow the construction activities to proceed as scheduled and to meet the target opening date of June 1, 2007 for the CNG Fueling Station project. Failure to meet this target opening date could have resulted in the loss of the Federal grant money for the project. The removal action was implemented by the Port's emergency response contractor, NRC Environmental Services, Inc. (NRC; Alameda, CA). Representing the Port, R&M Environmental and Infrastructure Engineering, Inc. (R&M) supported the project by providing field oversight and documentation including confirmation soil sampling and work site and perimeter air monitoring. This report, which has been prepared by

¹ For example, California Code of Regulations, Title 23, Division 3, Chapter 16 Underground Tank Regulations, Article 5, October 13, 2005, requires the reporting and investigation of the cause, nature and extent of the "unauthorized release" and, if necessary, requires remedial action.

R&M, documents work performed and site observations made and presents and discusses the results of soil confirmation sampling and air monitoring.

S.2 PREVIOUS SOIL AND GROUNDWATER SAMPLING IN THE GENERAL AREA

The CNG facility was constructed on a previous vacant asphalt-paved lot located in an area with many years of industrial use history. An adjacent parking lot on the north side formerly contained one 1,000-gallon capacity diesel UST and one 10,000-gallon capacity gasoline UST (See Figure S-1), which were removed by the Port in June 2003². Soil samples collected at the time of removal showed high concentrations of petroleum hydrocarbons, benzene, toluene, ethylbenzene, and xylenes (BTEX) in some areas of the excavation. A previous subsurface investigation that had been conducted at this same general area had also indicated a high level of hydrocarbon contamination in the soil near the groundwater table and in the groundwater at one of the three locations sampled. Although no specific prior site investigation involving soil and groundwater sampling has been performed in the specific area where the CNG Fueling Station was being constructed, encountering pockets of subsurface contamination during excavation at this site would not be surprising given the historical industrial activities in the general area and the results of the above-cited soil and groundwater sampling in the adjoining area.

S.3 FIELD ACTIVITIES

Excavation and confirmation soil sampling were performed on April 25, 2007, the first day of field activities. An area of approximately 22 ft by 42 ft was excavated to near the groundwater table, a depth of approximately 7 ft below the ground surface (bgs). The excavated soil, representing an estimated in-place volume of about 200 yd³ was temporarily stockpiled near the excavation and subsequently hauled off to Altamont Landfill in Livermore, CA.

From 2 ft. bgs to the floor of the excavation, the soil was fine grained with a grayish-black color. The especially black soil that was exposed in some areas of the excavation appeared to have heavy staining. However, upon closer inspection, little or no odor was present in most cases. Two soil samples collected from a distance of approximately 5 ft apart (See Figure S-2 for sampling locations) and placed in sealed plastic bags in the sun for approximately two hours had

headspace photoionization detector (PID) readings of 73 parts per million (ppm) and 3 ppm, respectively, indicating the wide variation in the soil VOC content for locations that were only a few feet apart.

A total of 11 confirmation samples were collected from the sidewalls and floor of the excavation before the excavation was backfilled (Figure S-2). The number of samples and the sampling locations were specified by a City of Oakland Hazardous Materials Inspector, who was present at the site to witness and direct the excavation and confirmation sampling. The samples were delivered to Curtis & Tompkins, Ltd., a State-certified analytical laboratory, for analysis for VOCs, Title 22 Metals, total petroleum hydrocarbons as diesel and as gasoline (TPH-g and TPH-d), and BTEX.

Imported Class 2 Aggregate Base material was used as the backfill material in the excavation. The emplaced material was compacted with sheep-foot compactors until field compaction tests indicated that a compaction density of close to 95% of the optimum had been achieved.

Prior to the start of field activities, and several times each day when the work was in progress, air monitoring, utilizing a PID, was done at and around the work site and site perimeter. Excavation work site breathing zone PID readings never exceeded an action level of 10 ppm for 1 minute with spikes not to exceed 25 ppm that had been called for in the site-specific health and safety plan for the project. PID readings and olfactory observations during excavation indicated odor emanating in certain locations when the soil was first exposed, but that the odor (and the PID reading) diminished quickly.

Throughout the duration of field activities, field crew exercised care to keep the work site clean and avoid allowing the material from the work area to be dragged outside the work area by the construction equipment. Areas where excavated soil or fresh backfill materials had been stockpiled were swept after the stockpiles had been removed. On Monday, April 30, the removal action crew demobilized from the site and Clean Energy resumed the CNG Fueling Station construction.

² *Underground Storage Tank Removal at 209 Brush Street, Oakland, CA* prepared by Geomatrix Consultants, Inc., Oakland, CA, July 2003.

S.4 ANALYTICAL RESULTS FOR CONFIRMATION SOIL SAMPLES

Analytical results indicated a non-hazardous waste classification for the soil samples with respect to metals concentrations. However, a few of the samples contained TPH-g and TPH-d and detected levels of certain VOCs as indicated in Table S-1 where the detected levels are listed and compared with environmental screening levels (ESL), where available.

The data in Table S-1 indicate high levels of xylenes (exceeding the ESL level) in at least two of the confirmation samples (RM-B4, and RM-S2); the TPH-g and TPH-d levels in these two samples and the TPH-g in sample RM-B2 also exceed the corresponding ESLs. The following observations can be made regarding the VOCs in some of the confirmation samples:

- ❖ Four of the 11 samples (i.e., 36% of the samples) were non-detect with respect to all 67 VOCs that were analyzed for via the indicated analytical method. These samples are RM-B2 and RM-B3 (two of the three soil samples collected from the excavation floor); RM-S2 (one of the three samples representing the southern excavation wall); and RM-N2 (one of the three samples collected from the northern excavation sidewall).
- ❖ Only one of the 67 VOCs was detected in four additional samples (i.e., an additional 36% of the samples). These samples are RM-N1, RM-N3, RM-E-1, and RM-W1. The one detected VOC in these samples is acetone (in samples RM-N3, RM-E1, and RM-W1) and naphthalene in RM-N1. The acetone concentrations (26 µg/kg, 31 µg/kg, and 39 µg/kg) are less than an ESL concentration of 500 µg/kg. Similarly, a naphthalene concentration of 24 µg/kg detected in RM-N1 is significantly below the ESL concentration of 1,500 µg/kg for naphthalene.
- ❖ Samples RM-S1 and RM-S3, the remaining two samples from the south sidewall, had, respectively, detectable levels of four and three of the 67 VOCs. These VOCs are acetone (140 µg/kg in RM-S1 and 70 µg/kg in RM-S3), 2-butanone (12 µg/kg in RM-S3), naphthalene (31 µg/kg in RM-S1 and 7.5 µg/kg in RM-S3), sec-butybenzene (41 µg/kg in RM-S1), and propylbenzene (28 µg/kg in RM-S1).
- ❖ Only one of the 11 confirmation soil samples (i.e., RM-B4, one of the three samples collected from the floor of the final excavation at 7 ft bgs) contained fairly high levels of certain VOCs. These VOCs are, in addition to xylenes mentioned above, propylbenzene (13,000 µg/kg), 1,3,5-trimethylbenzene (21,000 µg/kg), and 1,2,4-trimethylbenzene (60,000 µg/kg).

This project has fully accomplished its objective of providing oversight and documentation of field activities for the removal action effort. Analytical results for the soil samples suggest a release to the soils at the approximate center of the excavation with possibly an extension of the release towards the south. The excavation, which extended to the groundwater surface, removed

a significant quantity of impacted soil, with only pockets of contamination remaining at the soil/groundwater interface. The impacted soil within the excavation area has been completely removed and replaced with clean backfill material. Because site characterization to delineate the lateral and vertical extent of contamination was not within the scope of this removal action oversight and documentation project, no such attempts involving collection and analysis of groundwater samples or soil samples at various locations and depths outside the excavation area were made. The following are recommendations for further work in concurrence with the local environmental oversight agency:

- a) Perform a Phase I Environmental Site Assessment (ESA) as an attempt to identify the historic land uses that could have contributed to a release.
- b) Perform a site investigation to fully characterize the extent of impacts to soils and the groundwater.
- c) Based on the findings from the ESA and investigation, assess the release(s) as a further threat to human health and the environment and report the findings to the local oversight agency.
- d) Perform remediation as required by the regulatory agency.

TABLE S-1

DETECTED VOLATILE ORGANIC COMPOUNDS AND COMPARISON OF DETECTED CONCENTRATIONS WITH ENVIRONMENTAL SCREENING LEVELS WHERE AVAILBLE

See Figure 7 for sample locations

Analyte	Soil samples with detectable levels of indicated analyte								ESL	
	RM-B2	RM-B4	RM-S1	RM-S2	RM-S3	RM-N1	RM-N3	RM-E1		RM-W1
Petroleum hydrocarbons via EPA Method 5030B/8015B (mg/Kg)										
TPH-g	960	6,500		4,400						400
TPH-d		990		1,300						500
Xylenes		64,000		23,000						11,000
Purgeable organics by GC/MS; EPA Method 5030B/8260 (µg/Kg)										
Acetone			140		70		39	26	31	500
Propylbenzene		13,000	28							-
1,3,5-Trimethylbenzene		21,000								-
1,2,4-Trimethylbenzene		60,000								-
Naphthalene			31		7.5	24				1,500
2-butanone					12					-
Sec-butylbenzene			41							-

Notes:

Sample designation: B = bottom of excavation (Sample depth ~ 7 ft below ground surface, bgs)

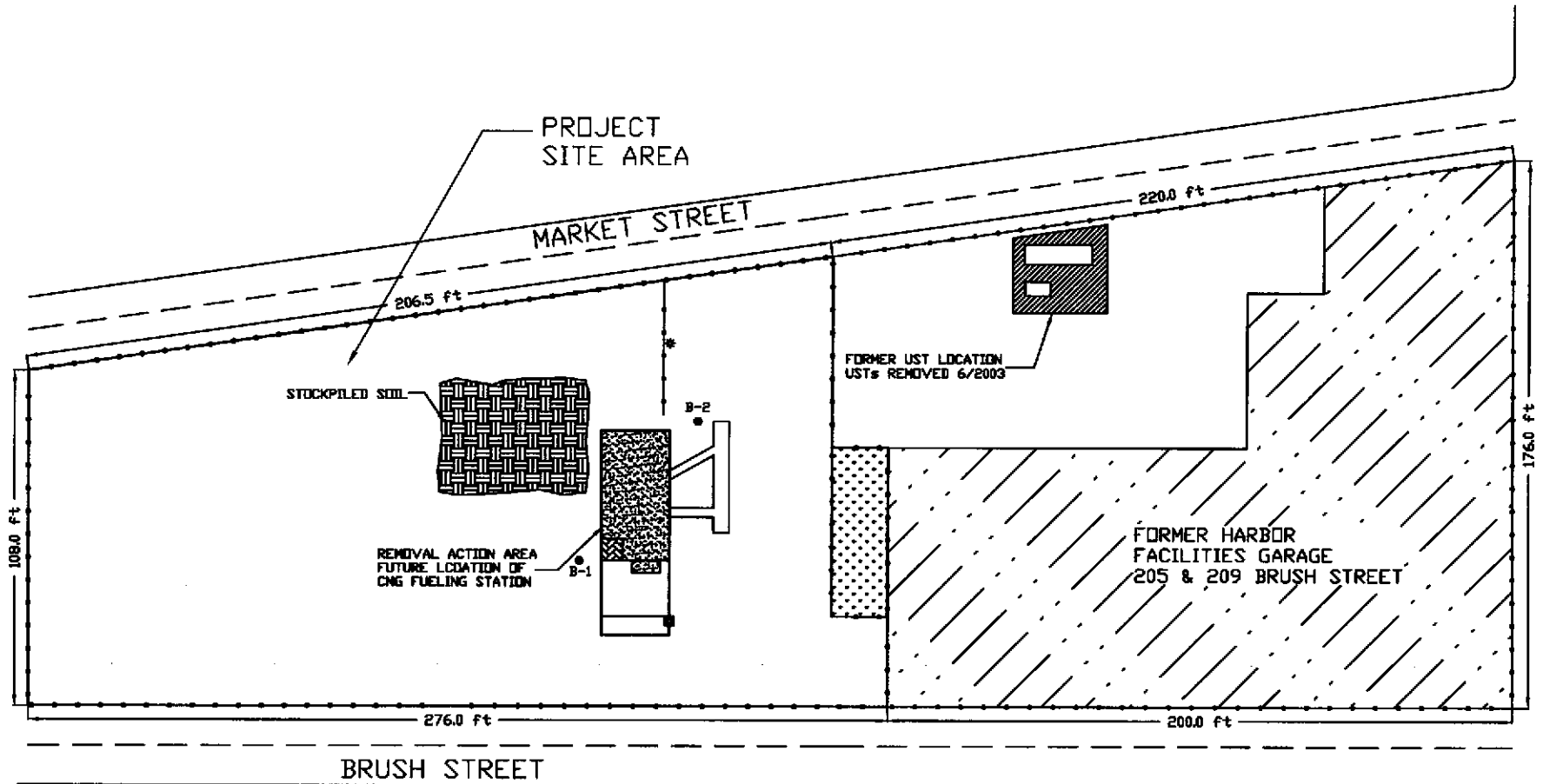
S, N, E, and W = south, north, east, and west walls of excavation (Sample depth ~ 3 ft bgs)

TPH-g Total petroleum hydrocarbons as gasoline


TPH-d Total petroleum hydrocarbons as diesel

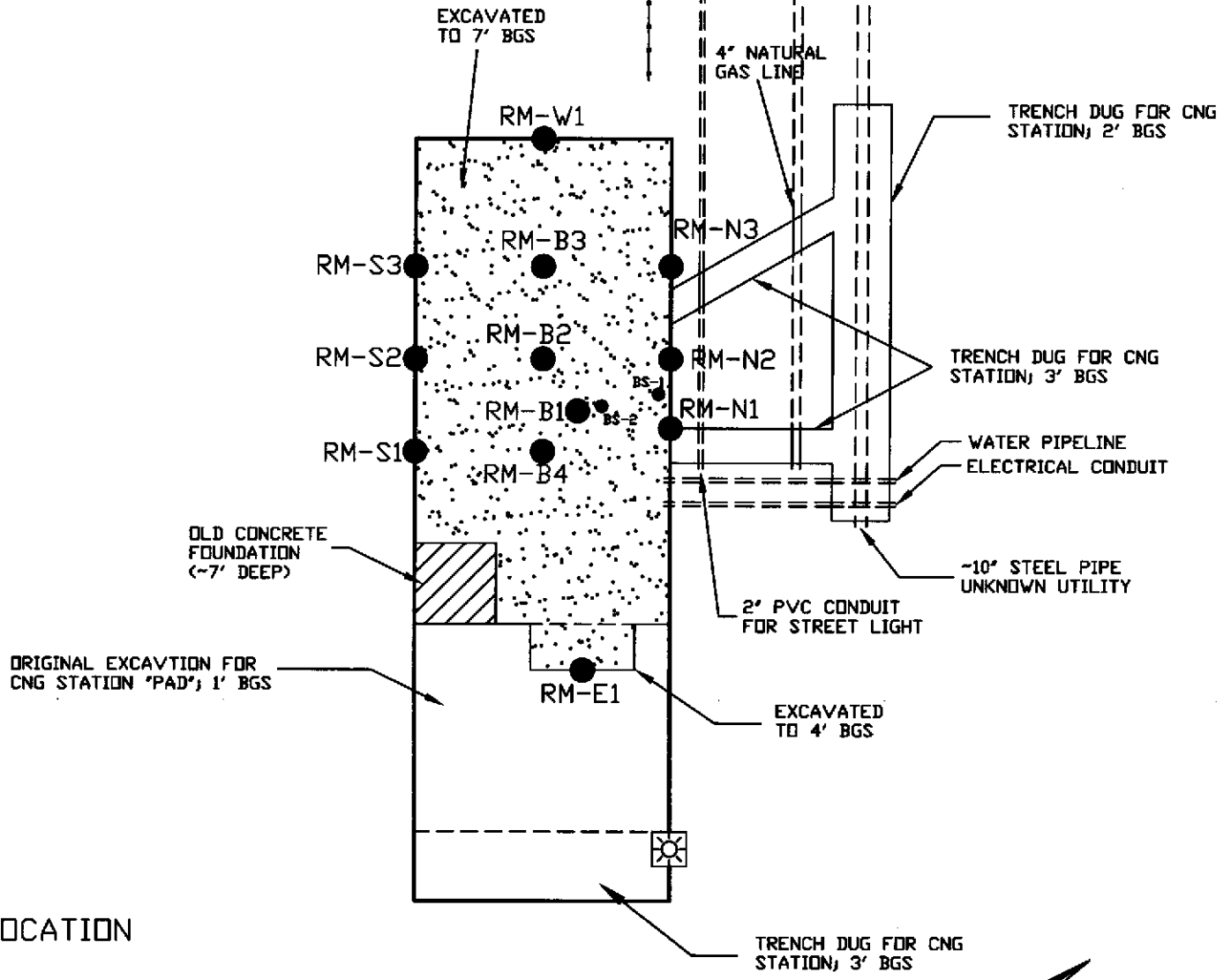
ESL = Environmental screening level; values are from Table B, 'ESLs Shallow Soils (< 3m bgs) Groundwater IS NOT a Current or Potential Source of Drinking Water' in "Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater," document prepared by California Regional Water Quality Control Board, February 2005.

RAILROAD TRACKS



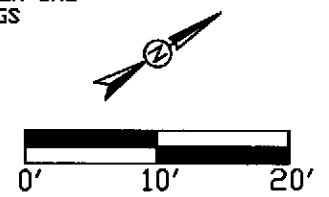
● - BORING LOCATION FROM A GEOTECHNICAL STUDY PERFORMED ON 11/10/2006 BY GEOLABS, INC.

DESIGNED BY:	CHECKED BY:	DIMENSIONAL LAYOUT OF REMOVAL ACTION AREA AND ADJOINING PROPERTIES 205/209 BRUSH STREET OAKLAND, CA	DATE: 5/9/2007	FIGURE: S-1
DRAWN BY: CA	SCALE:		 R&M Environmental and Infrastructure Engineering, Inc.	
PROJECT NO:				



LEGEND

- - SOIL SAMPLING LOCATION
- ☀ - LIGHT POLE
- - SOIL SAMPLE FOR HEADSPACE PID
- ▨ - REMOVAL ACTION AREA



DESIGNED BY:	CHECKED BY:	SOIL SAMPLING LOCATIONS 205/209 BRUSH STREET OAKLAND, CA	DATE: 4/26/2007	FIGURE: S-2
DRAWN BY: CA	SCALE:			
PROJECT NO:				

1.0 INTRODUCTION

This report describes and documents a removal action that took place from April 25 through April 30, 2007, at a construction site located at 205/209 Brush Street, Oakland, California (See Figure 1, Location Map). An area of approximately 22 ft by 66 ft was under excavation to construct a concrete pad for a CNG fueling station. While excavating two shallow trenches through the pad for piping and conduits, the contractor noted that a segment of each trench contained soil that was darker in color and had a solvent-like odor. Based on this observation and the close proximity of the site to a location of former leaking underground storage tanks (See Figure 2), the impacted soil was considered to be possibly due a previous "unauthorized release" requiring an investigation to determine the nature and extent of contamination, as required by regulations¹. All excavation activities were thus halted (on April 16, 2007) and the Port of Oakland was contacted. Photos #1 and #2 show the site as it appeared on April 20, 2007, prior to initiation of the removal action.

On April 16, 2007, Geolabs (Oakland, CA), a subcontractor, collected two samples of impacted soil from a location in one of the piping trenches. Figure 4 is a sketch showing the approximate location where the samples were collected. The samples were collected from depths of approximately 2 ft and 2.5 ft bgs. The soil samples were analyzed by Curtis & Tompkins, Ltd. (Berkeley, CA) for the following constituents via indicated methods:

Total petroleum hydrocarbons, as gasoline (TPH-g)	EPA Method 8015B
Benzene, toluene, ethylbenzene, and xylenes (BTEX)	EPA Method 8021B
Total petroleum hydrocarbons, as diesel (TPH-d)	EPA Method 8015B
Purgeable organics by GC/MS	EPA Methods 5030B/8260B
Title 22 metals	EPA Methods/6010/7000

Reports received from the laboratory are contained in Appendix B, with results summarized in Table 1. The laboratory findings indicated that VOCs, in particular acetone, may have been the causative agent for the solvent-like odor.

TABLE 1
ANALYTICAL RESULTS FOR SOIL SAMPLES COLLECTED ON 4/16/07

Soil Sample	#1 mg/Kg	#2 mg/Kg	ESL ¹	STLC mg/L	TTLIC mg/Kg
TITLE 22 METALS					
Antimony	ND<0.5	ND<0.5	40	15	500
Arsenic	1.5	1.6	5.5	5	500
Barium	73	55	1,500	100	10,000
Beryllium	0.17	0.17	8	0.75	75
Cadmium	ND<0.25	ND<0.25	7.4	1	100
Chromium	28	30.00	58	5	500*, 2500**
Cobalt	3.8	4.2	10	80	8,000
Copper	8.3	6.1	230	25	2,500
Lead	19	1.7	750	5	1,000
Mercury	0.13	0.038	10	0.2	20
Molybdenum	ND<0.25	ND<0.25	40	350	3,500
Nickel	16	17	150	20	2,000
Selenium	ND<0.5	ND<0.5	10	1	100
Silver	ND<0.25	ND<0.25	40	5	500
Thallium	ND<0.5	ND<0.5	13	7	700
Vanadium	20	21	200	24	2,400
Zinc	21	14	600	250	5,000

Notes:

- 1) Samples collected by Geolabs on 4/16/2007 (see Figure 4 for sample location)
- 2) Sample No. 1 depth - 2.0 feet bgs; Sample No. 2 depth = 2.5 feet bgs
- 3) Samples analyzed by Curtis and Tompkins, Ltd. (See Appendix B for laboratory report)

ND = Not detected

* for Chromium (VI)

** for Chromium (III)

* = ESLs from Table B, 'ESLs Shallow Soils ($\leq 3m$ bgs) Groundwater IS NOT a Current of Potential Source of Drinking Water' in "Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater," report prepared by California Regional Water Quality Control Board, February 2005.

TABLE 1, Continued
ANALYTICAL RESULTS FOR SOIL SAMPLES COLLECTED ON 4/16/07

Soil Sample	Unit	#1	#2
TPH (8015B)			
Gasoline	mg/Kg	1.9	9.1
Diesel	mg/Kg	13	39
BTEX (8020)			
Benzene	µg/Kg	<5.1	<5.1
Toluene	µg/Kg	7.4	<5.1
Ethylbenzene	µg/Kg	23	<5.1
Xylenes	µg/Kg	14	<5.1
Purgeable Organics (8260B)			
Acetone	µg/Kg	54	27
2-butanone	µg/Kg	16	<9.4
Benzene	µg/Kg	5.2	<4.7
Total xylenes	µg/Kg	21.2	<4.7
Isopropylbenzene	µg/Kg	<4.7	7.4
Propylbenzene	µg/Kg	<4.7	9.2
1,3,5-trimethylbenzene	µg/Kg	8.1	5.6
1,2,4-trimethylbenzene	µg/Kg	22	7.5
Sec-butylbenzene	µg/Kg	<4.7	7.8
Para-isopropyl toluene	µg/Kg	<4.7	6
n-butylbenzene	µg/Kg	<4.7	5.1
Napthalene	µg/Kg	<4.7	14

Notes:

- 1) Samples collected by Geolabs on 4/16/2007 (see Figure 4 for sample location)
- 2) Sample No. 1 depth - 2.0 feet bgs; Sample No. 2 depth = 2.5 feet bgs
- 3) Samples analyzed by Curtis and Tompkins, Ltd. (See Appendix B for laboratory report)

Based on field observations and soil sample analytical results, and at the direction of the City of Oakland Fire Department³, the Port directed NRC to undertake a removal action whereby the impacted soil within the footprint of the building pad was removed. Confirmation soil samples were collected by R&M from the floor and walls of the excavation before the excavation was backfilled with clean imported backfill material and compacted to the Port's specifications. The analytical results for the two soil samples collected on April 16, 2007 (Table 1) were used to profile the excavated soil as non-hazardous waste (under California and EPA standards). The

³ The City of Oakland Fire Department is a "Certified Unified Program Agency (CUPA)" that implements the State of California "Unified Program" on the local level. The Unified Program consolidates, coordinates, and makes consistent the administrative requirements, permits, inspections, and enforcement activities of six environmental and emergency response programs. The state agencies responsible for these programs set the standards for their program while local governments implement the standards. Cal/EPA oversees the implementation of the program as a whole.

excavated soil was taken to Altamont Landfill in Livermore, CA for disposal. The removal action was initiated on Wednesday, April 25, 2007, and the entire project, including excavation backfilling, compaction and disposal of the excavated materials, was completed on Monday, April 30, 2007.

Representing the Port, R&M supported the project by providing the following functions and services:

- Oversight of the removal action including documentation of field activities and observations;
- Design and enforcement of a health and safety program that included air quality monitoring in the work area and at the perimeter of the site to ensure worker safety and potential offsite migration of VOCs; and
- Preparation of this report that documents work performed, site observations, and results of soil confirmation sample analysis and of work site and perimeter air monitoring.

Table 2 lists the companies and organizations that were involved with or had input in the removal action project. The removal action had to be conducted quickly to allow the construction activities to proceed as scheduled and to meet the target opening date of June 1, 2007 for the CNG Fueling Station project. Failure to meet this target opening date could have resulted in the loss of the Federal grant money for the project.

TABLE 2

COMPANIES AND ORGANIZATIONS THAT WERE INVOLVED WITH OR HAD INPUT TO THE REMOVAL ACTION PROJECT AT 205/209 BRUSH STREET, OAKLAND, CA.

Company/Organization	Project Role and Responsibility
Port of Oakland	Site/land owner
City of Oakland, Oakland Fire Department, Hazardous Materials Unit, Fire Prevention Bureau	Inspector directing and witnessing excavation and confirmation soil sampling (See Appendix F for a copy of the inspection report)
Clean Energy (Seal Beach, CA)	Construction contractor for the CNG Fueling Station at 205/209 Brush Street
NRC Environmental Services (Alameda, CA)	Port's emergency response contractor who performed the subject removal action, including excavation, stockpiling of excavated materials, backfilling and compaction, importing clean backfill materials, and hauling off excavated materials for disposal at Altamont landfill in Livermore, CA
Geolabs, Inc. (Oakland, CA)	Subcontractor to Clean Energy performing the original soil sampling (on 04/16/07) and providing geotechnical services for compaction testing.
Inspection Services, Inc. (San Francisco, CA)	Subcontractor to Geolabs, providing field services for soil compaction testing
Dutra Materials (San Rafael, CA)	Supplying backfill materials (See Appendix E for specifications for backfill materials supplied)
Curtis & Tompkins, Ltd. (a state-certified analytical laboratory)	Soil sample analysis
R&M Environmental and Infrastructure Engineering, Inc.(Oakland, CA)	Port's contractor providing project oversight and documentation; work site and perimeter PID and odor monitoring; and preparation of this report

2.0 SITE DESCRIPTION AND BACKGROUND

2.1 PROJECT SITE LOCATION AND HISTORY

The construction site is a CNG Fueling Station in downtown Oakland. It was constructed on a previously vacant asphalt-paved lot. Figure 1 is a location map for the project site. The lot has a trapezoidal shape, with dimensions as indicated in Figure 5. The site fronts Market Street and Brush Street on two sides, with active railroad tracks on the south and a former Port maintenance

building (“Harbor Facilities Garage”) and associated parking lot on the north (See Figure 5). Although no historical documentation is available, some people have reported to the Port that this maintenance building may have previously housed a paint factory.

2.2 PREVIOUS ACTIVITIES AND INVESTIGATIONS

The adjacent parking lot on the north side of the project site formerly contained one 1,000-gallon capacity diesel UST and one 10,000-gallon capacity gasoline UST, which had been installed in 1987⁴. Their use was discontinued on April 12, 2002, and the USTs were excavated and removed by the Port in June 2003 under the oversight of the City of Oakland Certified Unified Programs Agency (CUPA).

The discontinuation of the use of USTs in 2002 and their removal in 2003 were at the direction of the Oakland Fire Service Agency (OFSA) after the USTs failed the annual tank monitoring test. Although soil samples collected at the time of the UST removal from the north and west sidewalls of the excavation contained very low or non-detect concentrations of TPH-d, TPH-g, and BTEX, these contaminants were found at higher levels in the soil samples from the east and south sidewalls. The highest concentrations found in the soil samples, were as follows:

TPH-g	11,000 mg/kg
TPH-d	620 mg/kg
Benzene	57 mg/kg
Toluene	880 mg/kg
Ethylbenzene	270 mg/kg
Xylenes	1,510 mg/kg

Based on the above analytical results, additional excavation was performed along the east wall of the UST removal excavation pit. Soil samples from the east sidewall of the enlarged excavation showed significantly lower concentrations of TPH-g and TPH-d (less than 200 mg/kg) and BTEX (ranging from non-detect to 11 mg/kg). Analysis of one grab groundwater sample collected from pooled groundwater beneath the former diesel tank location detected the following concentrations:

⁴ “Underground Storage Tank Removal; 209 Brush Street, Oakland, CA”, Report prepared for Port of Oakland by Geomatrix Consultants, Inc. (Oakland, CA), July 2003.

TPH-g	19,000 µg/kg
TPH-d	2,100 µg/kg
Benzene	610 µg/kg
Toluene	2,500 µg/kg
Ethylbenzene	700 µg/kg
Xylenes	3,430 µg/kg
Methyl tertiary-butyl ether	1,200 µg/kg

In November of 2006, Geolabs, Inc, under the direction of Clean Energy, performed a geotechnical study to determine the feasibility of the site for the CNG station.⁵ Two borings were advanced at locations just northwest and southwest from the planned construction area (see Figure 5). Although the purpose of the work was geotechnical assessment, six soil samples were also collected from these borings and analyzed for petroleum hydrocarbons. The analytical results, presented in Table 3, indicated the presence of TPH-g, TPH-d, benzene, toluene and xylenes in low concentrations. These analytical results indicate minor petroleum hydrocarbon impact at locations just south and west of the excavation area (See figure 5).

TABLE 3,
ANALYTICAL RESULTS FOR SOIL SAMPLES COLLECTED ON 11/10/06
(See Figure 4 for Sample Locations)

Soil Sample	(units)	1-1-3	1-2-4	1-3-3	2-2-3	2-3-4	2-4-3
TPH (8015B)							
gasoline	mg/Kg	ND<0.99	1.6 (H)(Y)	ND<0.94	ND<1.1	ND<1.0	ND<0.95
diesel	mg/Kg	1.4 (H)(Y)	15 (H)(L)(Y)	ND<1.0	ND<1.0	15 (H)(Y)	ND<1.0
BTEX (8020)							
Benzene	µg/Kg	ND<5.0	ND<5.1	ND<4.7	ND<5.3	7.5	ND<4.8
Toluene	µg/Kg	ND<5.0	ND<5.1	ND<4.7	ND<5.3	7.6	ND<4.8
Ethylbenzene	µg/Kg	ND<5.0	ND<5.1	ND<4.7	ND<5.3	ND<5.0	ND<4.8
m,p-Xylenes	µg/Kg	ND<5.0	ND<5.1	ND<4.7	ND<5.3	ND<5.0	ND<4.8
o-Xylenes	µg/Kg	ND<5.0	7.9 (C)	ND<4.7	ND<5.3	ND<5.0	ND<4.8

Notes:

Samples 1-1-3, 1-2-4 and 1-3-3 were taken from boring B-1, samples 2-2-3, 2-3-4 and 2-4-3 were taken from boring B-2

Samples collected by Geolabs on 11/10/2006 as part of a geotechnical study (see Figure 5 for sample location)

Samples analyzed by Curtis and Tompkins, Ltd. (See Appendix B for laboratory report)

(H) = Heavier hydrocarbons contributed to the quantitation

(L) = Lighter hydrocarbons contributed to the quantitation

(C) = Lighter gasoline range compounds (the most mobile fraction) are significant

(Y) = Sample exhibits chromatographic pattern which does not resemble standard

⁵ "Geotechnical Engineering Services Clean Energy CNG Fueling Station Second and Brush streets" Report prepared for Clean Energy by Geolabs, Inc (Oakland, CA), December 18, 2006.

In summary, although no specific prior site investigation involving soil and groundwater sampling has been performed in the area where the CNG Fueling Station is being constructed, the historical industrial activities in the general area and the results of above-cited soil and groundwater sampling in the adjoining area support the possibility of encountering pockets of subsurface impacts.

2.3 SITE GEOLOGY

Very limited site specific investigation work has been completed at the 205/209 Brush Street site. Therefore the information presented herein is a generalized discussion based upon direct observations during the removal action described in this report. The site at the beginning of construction was an unused parking lot located at the foot of Brush Street on the west side of the street and north of the Union Pacific Railroad tracks. The tracks generally demark the former Bay shoreline which may explain a thin clay layer noted in the top of the excavation which could be interpreted as Young Bay Mud. Below the clay layer, light brown clayey fine to medium-grained sands were encountered to the full depth of the removal, about 8 feet total depth. It is assumed the clayey sand material is the Merritt Sand.

Groundwater was barely encountered in the bottom of the excavation the next day following the removal action. The amount of water was too minor to sample; therefore the potential impacts are unknown. It is presumed the shallow groundwater flows to toward the Bay.

3.0 FIELD ACTIVITIES

The job-specific work plan and health and safety plan that had been prepared prior to start of field activities for removal action oversight and confirmation sampling are presented in Appendix H. Except for implementing a modified version of the planned air monitoring program, field activities generally followed the protocols described in these plans. The originally-proposed air quality monitoring was fairly elaborate and included air quality sampling using Summa canisters or Tedlar bags. However, initial perimeter and work site breathing zone air monitoring using a PID indicated the absence of measurable concentrations of VOCs to justify air sampling pursuant to the proposed protocol. Accordingly, only PID readings were used for air quality monitoring during field activities. Because of the short-duration of the operation, only one tailgate safety meeting was conducted (on the first day of field work on April 25, 2007); the tail gate safety

meeting form was signed by all who would be participating in field activities or present at the site to oversee the work.

Field activities for which oversight and work site and perimeter air monitoring were provided began on Wednesday, April 25, 2007, and were completed on Monday, April 30, 2007 (a total of 4 work days). Specific activities covered or performed on each day are listed in Table 4. Field activities, which are discussed below, fall into six categories: excavation and stockpiling; on-site management and off-hauling of excavated soils; confirmation sampling; backfilling and compaction (including compaction testing); air monitoring; and final site cleanup.

TABLE 4

CHRONOLOGY OF FIELD ACTIVITIES

Date	Event
4/25/2007	<ul style="list-style-type: none"> • Excavation and stockpiling. • Performed 4 rounds of work site, stockpiled soil area, and excavation area odor/PID monitoring. • Collected one soil sample from about the center of the excavation, when the excavation had reached a depth of approximately 5 ft bgs. • Collection of 11 confirmation soil samples from the walls and floor of the 7-ft deep excavation at locations specified by the City of Oakland Hazardous Material Inspector. • Delivered soil samples to the laboratory for analysis. • End-of-workday site cleanup (including covering of the soil stockpile with Visqueen® and placing barricades with caution tapes around the excavation).
4/26/2007	<ul style="list-style-type: none"> • Receipt of 200 yd³ (15 truckloads) of clean backfill material at the site. • Performed two rounds of work site, stockpiled soil area, and excavation area odor/PID monitoring. • Compaction of backfill material utilizing a John Deere CP-40 sheep-foot compactor. • Soil compaction tests performed at 5 ft. bgs, 4.5 bgs and 3.5 bgs. • End-of-workday site cleanup.
4/27/2007	<ul style="list-style-type: none"> • Stockpiled soil hauled off to Altamont, CA landfill. • Compaction of backfill material utilizing an Ingersoll-Rand SD-45 sheep-foot compactor. • Performed one round of work site and excavation area odor/PID monitoring. • Performed 4 rounds of stockpiled soil area odor/PID monitoring (prior and during removal of soil from site). • Performed two soil compaction tests. • End-of-workday site cleanup.
4/28/2007	SATURDAY: NO WORK PERFORMED
4/29/2007	SUNDAY: NO WORK PERFORMED
4/30/2007	<ul style="list-style-type: none"> • Performed one round of work site odor/PID monitoring. • Compaction of backfill material utilizing an Ingersoll-Rand SD-45 sheep-foot compactor. • Performed three soil compaction tests. • Unused backfill material removed from site. • Final site cleanup and demobilization.

3.1 EXCAVATION AND STOCKPILING ACTIVITIES

On Wednesday, April 25, 2007, R&M arrived at the site. The excavation area had been covered by the contractor with sheets of Visqueen® (plastic), weighed down with sandbags, and bordered with straw wattles (Photo #3). Some water from a recent rain had accumulated on the plastic cover. NRC workers removed the Visqueen® sheets and re-bordered the excavation area with straw wattles. The accumulated water was allowed to drain into the excavation and was subsequently worked into the soil that was excavated (Photo #4). The only storm drain on the site, located near an entrance gate on the Market Street side of the site, was bordered with a straw wattle weighed down with sandbags (Photo #5). NRC used a John Deere 225C excavator to perform the excavation and stockpiling (Photo #6).

Before the removal action began, R&M conducted air monitoring near the soil surface with a PID and a LEL/O₂/H₂S/CO meter in the excavation area in an attempt to delineate the areas of impact (Photo #7); neither instrument had any readings. Excavation began in the center of the pad area, between the two trenches. PID readings obtained near the newly exposed soil surface in this area and the odor that emanated from this area indicated the presence of VOCs in the soil.

After determining that the soil in the center of the excavation was impacted, a location further east within the excavation (Photo #8) was potholed to a depth of approximately 4 ft. bgs⁶ in an attempt to delineate the lateral extent of soil contamination. PID readings and olfactory observations made in the hole did not indicate the presence of hydrocarbons, thus making the pothole the eastern edge of the excavation (Figures 6 and 7). Originally, the excavation was to extend to a depth of about 5 ft. bgs (Photo #6). At the direction of OFD Inspector, Mr. Keith Matthews, the area was excavated to near the depth of the groundwater table (Photo #13), or approximately 7 ft. bgs⁷.

The impacted soils from 2 ft. bgs to the floor of the excavation were fine grained with a grayish-black color (Photos #15). Some of the especially dark black soil that was exposed along the northeast corner of the excavation appeared to have heavy hydrocarbon staining (Photo #12). However, upon closer inspection, little or no odor was present in most cases. During the

⁶ All field measurements of excavation depths refer to depths below the original ground surface.

⁷ When the contractor returned to the site on the morning of April 26 to begin backfilling of the excavation, minor groundwater had seeped into and accumulated in the excavation (Photo #14).

excavation, two soil samples, collected from locations designated as BS-1 and BS-2 in Figure 7, were placed in plastic bags which were sealed and placed in the sun for headspace PID measurement. Headspace PID readings made after two hours for these two samples were 73 ppm and 3 ppm, respectively, indicating the wide variation in the soil VOC content for locations that were only a few feet apart.

3.2 ON-SITE MANAGEMENT AND OFF-SITE HAULING OF EXCAVATED SOILS

The excavated soil was placed on a soil stockpile located west of the excavation. NRC prepared and extended the stockpile area by laying down additional Visqueen® sheets on the ground (Photo #13) and using straw wattles and sandbags on the perimeter. The dimensions of the final stockpile were approximately 36' X 47' X 8' and the stockpile was kept a minimum of 5 feet from the excavation area. After excavation activities were completed, the stockpile was covered with Visqueen® sheets (Photo #14) weighed down with sandbags.

Based on the measurements of the dimensions of the final excavation (Photo #9, Figure 6), R&M estimated an in-place excavation volume of approximately 200 yd³. On April 27, 2007, five trucks, making three trips each, were loaded with stockpiled excavation materials (Photo #15) which were hauled to Altamont Landfill (Livermore, CA). Prior to leaving the site, the trucks were covered with tarp (Photo #16).

The data from the analyses performed on the two samples collected by Geolabs, Inc. on April 16, 2007 (Table 1) were used to profile the excavated soils for disposal. The analytical results indicated a non-hazardous materials classification (according to California standards). Waste disposal manifests are located in Appendix G.

3.3 CONFIRMATION SAMPLING

Confirmation samples were obtained from the sidewalls and floor of the excavation on April 25, 2007. Mr. Keith Matthews, City of Oakland Hazardous Materials Inspector, who was present at the site to witness and direct the excavation and confirmation sampling, specified the number of

samples and sampling locations. A total of 11 soil samples were collected⁸: 8 from the excavation walls (~3 ft bgs) and 3 were the floor of the excavation (7 ft bgs) – See Figure 7. Samples were collected from the excavator bucket⁹ using 1.5" X 6" stainless steel tubes pushed by hand into the soil (Photo #17). The tube containing the sample was then capped with Teflon squares and plastic end caps and labeled with sample location designation, date and time of sample collection, and placed in a cooler on ice. The cooler containing the samples was delivered to Curtis & Tompkins, Ltd. (Berkeley, CA), a state-certified analytical laboratory, under chain-of-custody documentation. Field observations relating to the collected samples were documented in Excavation Sampling Logs that are presented in Appendix C.

3.4 BACKFILING AND COMPACTION

The backfilling of excavation and compaction of the emplaced backfill material began on Thursday (April 26) and was completed on Monday (April 30). NRC secured the backfill material (Class 2 Aggregate Base – see Appendix E for product specifications) from Dutra Materials (San Rafael, CA), which delivered approximately 200 yd³ (fifteen truck loads) of the material to the site on April 26, 2007 (Photo #18). A John Deere 544 loader was used to move the backfill material into and around the excavation (Photo #19). Water was sprayed onto the backfill material as it was placed into the excavation (Photo #20). Initially NRC used a one-ton self-propelled John Deere CP-40 sheep-foot compactor to compact the emplaced material (Photo #21). However, field compaction tests (Photo #22) performed on April 26 indicated that this compactor did not produce a compaction density of close to the desired 95% level. On April 27, NRC replaced the compactor with a 5-ton self-propelled Ingersoll-Rand SD-45 sheep-foot unit (Photo #23).

As noted in Table 2, field compaction tests were performed by Inspection Services, Inc. (ISI). ISI performed a total of seven compaction tests: three on April 26 at backfill placement depths of approximately 3.5 ft, 4.5 ft, and 5 ft.; two on April 27 at a backfill placement depth of approximately 2 ft bgs; and two on April 30 at final compacted surface of approximately 0.5 ft bgs. The latter four tests, which were performed after a significant amount of additional

⁸ Initially when an excavation depth of 5 ft bgs was being contemplated, one soil sample (RM-B1) was collected from the floor of excavation at this depth. This sample was not discarded, but rather was sent to the laboratory for analysis along with the 11 confirmation samples collected later when the excavation was extended to a depth of 7 ft. bgs

⁹ Sampling personnel did not enter the excavation per safety requirements.

compaction had been performed using the heavier, 5-ton Ingersoll-Rand SD-45 sheep foot compactor, indicated achievement of a compaction density of 93%. Photo #24 shows the site appearance on April 30, 2007, when it was handed over to the contractor to resume its CNG Fueling Station construction.

On Thursday, May 11, 2007, R&M received the final compaction testing report from Geolabs, Inc. The report, presented in Appendix E, indicates that a 95% compaction had been achieved, based on the moisture-dry density curve that was developed using an actual sample of the backfill material that had been delivered to the site (instead of the curve that had been obtained from the Duta Materials for their general Class II Aggregate Base). Table 5 summarizes the results excerpted from the report contained in Appendix E.

Only 12 of the 15 truckloads of the backfill materials delivered to the site were used in backfilling the excavation. The excess/unused clean backfill material, which had been stockpiled near the western fence, was hauled off in three truckloads by NRC to its yard in Point Molate on April 30, 2007 as part of final site cleanup and demobilization.

TABLE 5
 COMPACTION TEST RESULTS
 (See Appendix E for Compaction Report)

Test #	Test date	General Location	Elevation	Moisture (%)	Dry Density (pcf)	Reference Curve	Relative Compaction	Specified Compaction (%)	Probe Depth (inches)
1	4/26/07	CNG Fueling Station Lift 3	Subgrade	6.7	121.7	L-36149	89	95	8
2	4/26/07	CNG Fueling Station Lift 2	Subgrade	7.6	120.3	L-36149	89	95	8
3	4/26/07	CNG Fueling Station Lift 1	Subgrade	6.5	116.5	L-36149	85	95	8
1	4/27/07	CNG Fueling Station 6" below FSG	Subgrade	6.8	134.0	L-36149	98	95	8
2	4/27/07	CNG Fueling Station 6" below FSG	Subgrade	7.5	133.5	L-36149	97	95	8
1	4/30/07	CNG Fueling Station	Finish Subgrade	7.1	130.4	L-36149	95	95	8
2	4/30/07	CNG Fueling Station	Finish Subgrade	5.9	130.2	L-36149	95	95	8

3.5 AIR MONITORING

Air monitoring, utilizing a PID, was performed by R&M at and around the work site area, including near the excavation, soil stockpile, and site perimeter. The monitoring results are presented in Table 6. During excavation activities on April 25, 2007, two PID instruments were used to continuously monitor the excavation area, freshly stockpiled soil, and the breathing zone (~5 ft above ground surface). PID readings never exceeded an action level of 10 ppm for 1 minute with spikes not to exceed 25 ppm that had been called for in the site-specific health and safety plan for the project. PID readings and olfactory observations during excavation indicated odor emanating in certain locations when the soil was first exposed, but that the odor (and the PID reading) diminished quickly.

To confirm observations made during excavation that freshly exposed impacted soils emanated odor which quickly faded away, stockpiled soil PID readings (Photo #25) were made after agitating the stockpile with a shovel or foot and then immediately placing the PID near (< 1 ft) the area of disturbance. Results from stockpiled soil monitoring spiked as high as 1,260 ppm, with readings generally in the 0-50 ppm range. During the loading of stockpiled soil into trucks on April 27, 2007 for removal to the Altamont landfill (Livermore, CA), strong hydrocarbon odors were present downwind. However, breathing zone PID readings never exceeded the action levels requiring curtailment of operation.

After the stockpiled soil was removed from the site and backfilling operations commenced, PID monitoring and olfactory observations did not indicate the presence of hydrocarbons onsite. The site is located in an industrial area containing various emission sources. For example, on the early morning of April 25 before any site work had begun, there was a strong stockyard odor in the area as a truck loaded with cattle had made a temporary stop adjacent to the site on Market Street, before heading north on Market Street (Photo #26).

TABLE 6
FIELD PID READINGS

Time	PID Reading (PPM)	Comments
4/25/2007		
7:01	0.0	Site perimeter, excavation perimeter walk.
7:45	0.0	Stockpiled soil from earlier excavation.
8:32	20.9	Reading spike during backhoe operation.
8:47	40.3	Spike during excavation near original trenches, downwind from excavation. Readings are fluctuating, spike lasted for only a few seconds. Reading taken approximately 1 foot above ground surface at excavation area.
8:49	79.8	Spike at area between original trenches, downwind from excavation. Readings are fluctuating, spike lasted for only a few seconds. Reading taken approximately 1 foot above ground surface at excavation area.
8:50	0.0	At breathing level next to excavation (5 ft above ground surface).
8:52	--	Pattern appears to be: when the backhoe digs/agitates soil, odor becomes stronger, PID readings spike. Odor fades to less strong level fairly quickly.
8:56	0-5	Reading constant at breathing level, near/downwind from excavation, strong odor is now continually present.
9:01	0.0	Site perimeter.
9:06	29.6, 19.8	From freshly stockpiled soil, spikes appear when you agitate soil.
9:45	0-2.2	Odor/PID site walk. Odor and PID readings generally confined to area downwind from excavation.
10:10	15.8	Spike, during backhoe excavation.
10:29	0-5.3	Odor/PID site walk. Odor and PID readings generally confined to area downwind from excavation.
10:50	73.0	Collection of soil sample for headspace PID (BS-2).
10:51	3.0	Collection of soil sample for headspace PID (BS-1).
11:31	0-21.8	Odor/PID site walk: odor and PID readings generally confined to area downwind (north) of excavation. Odor and PID readings are strong.
11:48	0-0.7	Stockpiled soil, readings low, didn't agitate soil, just held PID close to soil, as Rafael walked around.
12:06	0.0	PID reading during excavation.
12:10	0-5.7	Afternoon digging: odor present, reading made at breathing level.
12:17	19.1	Spike during excavation, downwind (north) of excavation.
12:46	0-5.0	Northwest edge of excavation area seems to be boundary of contamination zone, due to low average PID readings, compared to the middle of excavation.
12:58	0-2.0	Odor/site walk: odor and PID readings generally confined to area downwind (north) of excavation, odor is less strong than earlier in the day.
4/26/2007		
7:55	0.0	Before any excavation/filling activity: site walk, slight hydrocarbon odor present downwind (north) of excavation.
10:26	0.0	Loader (John Deere 544) moving new material into excavation, slight hydrocarbon odor present, performed site walk, odor confined to area downwind (north) of excavation.
12:55	0-3.0	Used PID on covered stockpile, lifted tarp at the edges to reach soil.
4/27/2007		
6:58	0.0	PID site walk, upwind/downwind from excavation.
7:05	0.0	PID reading of stockpiled soil, agitated several areas around stockpile.

TABLE 6, Continued

FIELD PID READINGS

7:56	5-10ppm; spike of 28.2 ppm	PID reading for stockpile area where soil was removed by loader, strong hydrocarbon odor.
8:40	208	Stockpile PID check: agitated dirt with foot, did this to area newly exposed by loader.
11:45	Average ≈50ppm; spikes of 554, 756, 1260ppm	PID reading on stockpiled soil, used shovel to dig into stockpile. Strong hydrocarbon odor.
12:42	20-100ppm	Loader moving stockpiled soil around, hydrocarbon odor present. Readings taken close to stockpile (within ~1 ft).
4/30/2007		
8:50	0.0	Site odor/PID walk, no hydrocarbon odor.

Note: the LEL/O₂/H₂S/CO meter utilized on 4/25/2007 onsite indicated no presence of methane, carbon monoxide, or hydrogen sulfide. The atmospheric oxygen content ranged from 20.5% to 20.9%.

3.6 FINAL SITE CLEANUP

Care was exercised by the field crew to keep the work area clean and prevent material from the work area being dragged by the construction equipment (Photos #27 and #28). Areas where excavated soil or fresh backfill materials had been stockpiled were swept and the sweepings placed into the final truck load that was taken offsite.

Equipment used in site work did not cause any damage to the existing paved surfaces or nearby structures (e.g., fences) outside the originally designated construction area which would have required repair or replacement. In addition to daily site cleanup, a final site cleanup was done on Monday, April 30, at the conclusion of field activities and prior to demobilization. Construction debris, small tools, left-over supplies, and construction equipment (i.e., excavator, loader, and compactor) were removed from the site.

4.0 ANALYTICAL RESULTS FOR CONFIRMATION SOIL SAMPLES

The analytical results for confirmation soil samples collected on April 25, 2007 are presented in Appendix B and are summarized in Tables 7 and 8. A discussion of analytical results and their significance follows.

Table 7 presents the concentrations of Title-22 metals, TPH-g, TPH-d, and BTEX in the soil samples and compares these concentrations with applicable ESLs. High levels of xylenes (exceeding the ESL level) are present in at least two of the confirmation samples (RM-B4, and RM-S2); the TPH-g and TPH-d levels in these two samples and the TPH-g in sample RM-B2 also exceed the corresponding ESLs. These values are also significantly higher than the corresponding values shown in Table 1 for the two shallow soil samples that Geolabs had collected on April 16. In sample RM-B1, the presence of chromium (chromium III) was indicated in a concentration (57 mg/Kg) greater than 10 times the soluble threshold limits concentration (STLC) of 5 mg/Kg. A waste that contains a constituent at a concentration in mg/Kg which is less than its listed total threshold limits concentration (TTL; chromium TTL = 500 mg/Kg), may or may not be a California hazardous waste, depending whether or not the waste extraction test (WET) results indicates a concentration above or below the listed STLC. No further investigation was done to assess the extent of chromium impact at the site.

VOC analytical results for the confirmation soil samples collected on April 25 (see Figure 7 for sample locations) are presented in Table 8. The data indicate the following:

- ❖ Four of the 11 samples (i.e., 36% of the samples) were non-detect with respect to all 67 VOCs that were analyzed via the indicated analytical method. These samples are RM-B2 and RM-B3 (two of the three soil samples collected from the excavation floor); RM-S2 (one of the three samples representing the southern excavation wall); and RM-N2 (one of the three samples collected from the northern excavation sidewall).
- ❖ Only one of the 67 VOCs was detected in four additional samples (i.e., an additional 36% of the samples). These samples are RM-N1, RM-N3, RM-E-1, and RM-W1. The one detected VOC in these samples is acetone (in samples RM-N3, RM-E1, and RM-W1) and naphthalene in RM-N1. The acetone concentrations (26 µg/kg, 31 µg/kg, and 39 µg/kg) are less than an ESL concentration of 500 µg/kg. Similarly, a naphthalene concentration of 24 µg/kg detected in RM-N1 is significantly below the ESL concentration of 1,500 µg/kg for naphthalene.
- ❖ Samples RM-S1 and RM-S3, the remaining two samples from the south sidewall, had, respectively, detectable levels of 4 and 3 of the 67 VOCs. These VOCs are acetone (140 µg/kg in RM-S1 and 70 µg/kg in RM-S3), 2-butanone (12 µg/kg, in RM-S3), naphthalene (31 µg/kg in RM-S1 and 7.5 µg/kg in RM-S3), sec-butylbenzene (41 µg/kg in RM-S1), and propylbenzene (28 µg/kg in RM-S1).
- ❖ Only one of the 11 confirmation soil samples (i.e., RM-B4, one of the three samples collected from the floor of the final excavation at 7 ft bgs) contained fairly high levels of certain VOCs. These VOCs are, in addition to xylenes mentioned above, propylbenzene (13,000 µg/kg), 1,3,5-trimethylbenzene (21,000 µg/kg), and 1,2,4-trimethylbenzene (60,000 µg/kg).

In light of the above considerations and the field observations, the data presented in Tables 7 and 8, suggest (a) no impacted (or significantly impacted) soil remain along the four excavation sidewalls, and (b) some pockets of contamination remain at the soil/groundwater interface. The contamination remaining at or near the groundwater surface, however, exists in spots rather than extends uniformly over the base of excavation. However, all contamination previously present in the soil above the groundwater table in the project area has now been completely removed and replaced with clean backfill material.

The data for TPH-g, TPH-d and xylenes in soil at locations sampled are shown in Figures 8, 9, and 10, respectively. These figures suggest a release to the soils at the approximate center of the excavation with possibly an extension of the release towards the south. Further investigation is needed to delineate the extent of the problem. Test data for soil analyses are interpreted as identification of release of petroleum hydrocarbons as gasoline and diesel products and petroleum compounds including BTEX plus acetone and various benzene based chemicals. The data indicate a non-California hazardous waste classification for the soil samples with respect to metals concentrations.

5.0 CONCLUSIONS AND RECOMMENDATIONS

This report documents the localized removal action taken by the Port to mitigate an unanticipated environmental release discovered during a construction project. Our conclusions are as follows:

1. Petroleum-impacted soil was removed from beneath the footprint of an equipment pad thereby mitigating a hazard to the construction crew so work could continue; and
2. The threat of a release of contaminants from the impacted soil to the environment was mitigated by the removal action.

The following are our recommendations for further work in concurrence with the local environmental oversight agency:

- a) Perform a Phase I Environmental Site Assessment (ESA) as an attempt to identify the historic land uses that could have contributed to a release;
- b) Perform a site investigation to fully characterize the extent of impacts to soils and the groundwater;

- c) Based on the findings from the ESA and investigation, assess the release(s) as a further threat to human health and the environment and report the findings to the local oversight agency.
- d) Perform remediation as required by the regulatory agency.

TABLE 7
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS: TITLE 22 METALS, TPH, BTEX
 (See Appendix B for analytical laboratory reports)
 Sampling performed on April 25, 2007

Sample	5 ft bgs				7 ft bgs				3 ft bgs				Limits for Hazardous Waste		
	RM-B1	RM-B2	RM-B3	RM-B4	RM-S1	RM-S2	RM-S3	RM-N1	RM-N2	RM-N3	RM-E1	RM-W1	STLC	TTLc	ESL*
Title 22 Metals (mg/Kg)															
Antimony	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.6	ND<0.5	ND<0.5	15	500	40
Arsenic	3.9	1.5	1.9	2.9	2.3	2.3	1.7	1.8	1.3	1	1.3	2.2	5	500	5.5
Barium	26	53	51	59	58	60	75	61	45	50	59	71	100	10,000	1500
Beryllium	0.25	0.15	0.21	0.23	0.19	0.18	0.15	0.17	0.14	0.15	0.17	0.21	0.75	75	8
Cadmium	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	1	100	7.4
Chromium	25	33	33	35	31	28	28	24	26	25	24	24	5	2500	58
Cobalt	5.6	3.1	3.7	6.3	4	3.7	3.2	3.3	2.9	3.2	3.2	3.8	80	8000	10
Copper	20	5.9	7.9	8.2	7.4	24	6.3	6.3	5	5.2	5.9	8.5	25	2500	230
Lead	4.2	1.5	1.5	1.8	1.7	14	4.2	2	1.9	2	5.8	35	5	1,000	750
Mercury	0.022	0.041	0.13	0.024	0.033	0.19	0.029	ND<0.02	ND<0.21	ND<0.25	0.058	0.1	0.2	20	10
Molybdenum	1.2	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	0.28	350	3500	40
Nickel	37	14	23	26	21	18	15	16	14	15	12	15	20	2000	150
Selenium	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1	100	10
Silver	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	5	500	40
Thallium	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7	700	13
Vanadium	47	20	26	27	24	22	19	20	18	19	18	17	24	2400	200
Zinc	42	14	18	18	17	31	18	16	14	14	16	26	250	5,000	600
TPH (mg/Kg)															
Gasoline (C7-C12)	4,500 Y	980 Y	ND<1.0	6,500 Y	14 H,Y	4,400 Y	4.4 Y	190 H,Y	6.4 H,Y	ND<1.0	ND<0.95	3.6 H,Y	mg/Kg		
Diesel (C10-C24)	800 L,Y	110 L,Y	1.2 L,Y	990 L,Y	83 H,L,Y	1,300 H,L,Y	12 H,L,Y	61 H,L,Y	5.7 L,Y	ND<1.0	ND<1.0	18 H,L,Y	400		
BTEX (µg/Kg)															
Benzene	ND<500	ND<130	ND<5.0	ND<1,000	ND<4.8	ND<500	ND<5.1	ND<130	11	ND<5.0	ND<4.8	ND<5.0	µg/Kg		
Toluene	ND<500	ND<130	ND<5.0	ND<1,000	ND<4.8	ND<500	ND<5.1	ND<130	ND<5.2	ND<5.0	ND<4.8	ND<5.0	3,800		
Ethylbenzene	ND,500	ND<130	ND<5.0	ND<1,000	ND<4.8	ND<500	ND<5.1	1,700 C	ND<5.2	ND<5.0	ND<4.8	ND<5.0	9,300		
Xylenes (m,p)	8,000 C	ND<130	ND<5.0	30,000	ND<4.8	ND<500	ND<5.1	ND<130	9.4 C	ND<5.0	ND<4.8	ND<5.0	32,000		
o-Xylene	24,000	4,400	ND<5.0	34,000	69	23,000	28	ND<130	36 C	6.1 C	ND<4.8	15	-		
Xylenes (m,p,o)	32,000 C	4,400	ND<5.0	64,000	69	23,000	28	ND<130	45.4 C	6.1 C	ND<4.8	15	11,000		

Sample Designations:

RM = R&M Environmental and Infrastructure Engineering, Inc.

S = south wall of excavation, N = north wall of excavation, E = east wall of excavation, W = west wall of excavation, B = bottom of excavation (See Figure 7: Sampling Locations)

TPH = Total petroleum hydrocarbons

BTEX = Benzene, toluene, ethylbenzene, and xylenes

STLC = Soluble Threshold Limits Concentrations

TTLc = Total Threshold Limits Concentrations

ESL = Environmental Screening Level

ND = Not detected

* = ESLs from Table B, "ESLs Shallow Soils (< 3m bgs) Groundwater IS NOT a Current or Potential Source of Drinking Water," in "Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater" document prepared by California Regional Water Quality Control Board, February 2005.

Y = Sample exhibits chromatographic pattern which does not resemble standard

H = Heavier hydrocarbons contributed to the quantitation

C = Presence confirmed, but RPD between columns exceeds 40%

L = Lighter hydrocarbons contributed to the quantitation

Samples analyzed by Curtis and Tompkins

Y = sample exceed soluble threshold limits concentration (STLC)

TABLE 8
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS: VOLATILE ORGANIC COMPOUNDS
 (See Appendix B for Analytical Laboratory Reports)
 sampling performed on April 25, 2007

Sample	5 ft bgs		7 ft bgs				3 ft bgs						ESLs* µg/Kg
	RM-B1	RM-B2	RM-B3	RM-B4	RM-S1	RM-S2	RM-S3	RM-T1	RM-T2	RM-T3	RM-T4	RM-T5	
Purgeable Organics by GC/MS (µg/Kg)													
Freon 12	ND<10,000	ND<20,000	ND<9.4	ND<20,000	ND<50	ND<10,000	ND<9.8	ND<9.3	ND<250	ND<9.3	ND<10	ND<9.8	—
Chloromethane	ND<10,000	ND<20,000	ND<9.4	ND<20,000	ND<50	ND<10,000	ND<9.6	ND<9.3	ND<250	ND<9.3	ND<10	ND<9.6	200
Vinyl Chloride	ND<10,000	ND<20,000	ND<9.4	ND<20,000	ND<50	ND<10,000	ND<9.6	ND<9.3	ND<250	ND<9.3	ND<10	ND<9.6	1.9
Bromomethane	ND<10,000	ND<20,000	ND<9.4	ND<20,000	ND<50	ND<10,000	ND<8.6	ND<9.3	ND<250	ND<9.3	ND<10	ND<9.6	510
Chloroethane	ND<10,000	ND<20,000	ND<9.4	ND<20,000	ND<50	ND<10,000	ND<9.6	ND<9.3	ND<250	ND<9.3	ND<10	ND<9.6	850
Trichlorofluoromethane	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.6	ND<130	ND<4.6	ND<5	ND<4.8	—
Acetone	ND<25,000	ND<50,000	ND<140	ND<50,000	140	ND<25,000	70	ND<23	ND<630	39	26	31	500
Freon 113	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.6	ND<130	ND<4.6	ND<5	ND<4.8	—
1,1-Dichloroethene	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.6	ND<130	ND<4.6	ND<5	ND<4.8	890
Methylene Chloride	ND<20,000	ND<40,000	ND<19	ND<40,000	ND<100	ND<20,000	ND<19	ND<19	ND<500	ND<19	ND<20	ND<19	1,500
Carbon Disulfide	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.6	ND<130	ND<4.6	ND<5	ND<4.8	—
MTBE	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.6	ND<130	ND<4.6	ND<5	ND<4.8	5,600
trans-1,2-Dichloroethane	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.6	ND<130	ND<4.6	ND<5	ND<4.8	7,300
Vinyl Acetate	ND<50,000	ND<100,000	ND<47	ND<100,000	ND<250	ND<50,000	ND<48	ND<46	ND<1,300	ND<46	ND<50	ND<48	—
1,1-Dichloroethane	ND<5,000	ND<10	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.6	ND<130	ND<4.6	ND<5	ND<4.8	—
2-Butanone	ND<10,000	ND<20,000	ND<9.4	ND<20,000	ND<50	ND<10,000	12	ND<9.3	ND<250	ND<9.3	ND<10	ND<9.6	—
cis-1,2-Dichloroethene	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.6	ND<130	ND<4.6	ND<5	ND<4.8	3,600
2,2-Dichloropropane	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.6	ND<130	ND<4.6	ND<5	ND<4.8	—
Chloroform	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.6	ND<130	ND<4.6	ND<5	ND<4.8	1,900
Bromochloromethane	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.6	ND<130	ND<4.6	ND<5	ND<4.8	—
1,1,1-Trichloroethane	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.6	ND<130	ND<4.6	ND<5	ND<4.8	7,800
1,1-Dichloropropene	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.6	ND<130	ND<4.6	ND<5	ND<4.8	—
Carbon Tetrachloride	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.6	ND<130	ND<4.6	ND<5	ND<4.8	34
1,2-Dichloroethane	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.6	ND<130	ND<4.6	ND<5	ND<4.8	700
Benzene	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.6	ND<130	ND<4.6	ND<5	ND<4.8	380
Trichloroethane	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.6	ND<130	ND<4.6	ND<5	ND<4.8	730
1,2-Dichloropropane	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.6	ND<130	ND<4.6	ND<5	ND<4.8	140
Bromodichloromethane	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.6	ND<130	ND<4.6	ND<5	ND<4.8	39
Dibromomethane	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.6	ND<130	ND<4.6	ND<5	ND<4.8	20
4-Methyl-2-Pentanone	ND<10,000	ND<20,000	ND<9.4	ND<20,000	ND<50	ND<10,000	ND<9.6	ND<9.3	ND<250	ND<9.3	ND<10	ND<9.6	—
cis-1,3-Dichloropropene	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.6	ND<130	ND<4.6	ND<5	ND<4.8	—
Toluene	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.6	ND<130	ND<4.6	ND<5	ND<4.8	9,300
trans-1,3-Dichloropropene	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.6	ND<130	ND<4.6	ND<5	ND<4.8	93
1,1,2-Trichloroethane	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.6	ND<130	ND<4.6	ND<5	ND<4.8	89
2-Hexanone	ND<10,000	ND<20,000	ND<9.4	ND<20,000	ND<50	ND<10,000	ND<4.8	ND<9.3	ND<250	ND<4.6	ND<10	ND<9.6	—
1,3-Dichloropropane	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.6	ND<130	ND<9.3	ND<5	ND<4.8	—
Tetrachloroethene	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.6	ND<130	ND<4.6	ND<5	ND<4.8	—

Sample Designation: Example RM-S1

RM = R&M Environmental and Infrastructure Engineering, Inc.

S1 = Location designation/Sample number (See Figure 7)

ND = Not detected

* = ESLs from Table B, "ESLs Shallow Soils (< 3m bgs) Groundwater IS NOT a Current or Potential Source of Drinking Water," in "Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater" document prepared by California Regional Water Quality Control Board, February 2005.

Y = Sample exhibits chromatographic pattern which does not resemble standard

H = Heavier hydrocarbons contributed to the quantitation

C = Presence confirmed, but RPD between columns exceeds 40%

L = Lighter hydrocarbons contributed to the quantitation

Samples analyzed by Curtis and Tompkins, Ltd.

TABLE 8
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS: VOLATILE ORGANIC COMPOUNDS
 (See Appendix B for Analytical Laboratory Reports)
 sampling performed on April 25, 2007

Sample	5 ft bgs		7 ft bgs				3 ft bgs						ESLs* µg/Kg
	RM-B1	RM-B2	RM-B3	RM-B4	RM-S1	RM-S2	RM-S3	RM-N1	RM-N2	RM-N3	RM-E1	RM-W1	
Purgeable Organics by GC/MS (µg/Kg)													
Dibromochloromethane	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.8	ND<130	ND<4.8	ND<5	ND<4.8	64
1,2-Dibromoethane	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.8	ND<130	ND<4.8	ND<5	ND<4.8	20
Chlorobenzene	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.8	ND<130	ND<4.8	ND<5	ND<4.8	1,500
1,1,1,2-Tetrachloroethane	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.8	ND<130	ND<4.8	ND<5	ND<4.8	6,900
Ethylbenzene	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.8	ND<130	ND<4.8	ND<5	ND<4.8	32,000
m,p-Xylenes	ND<5,000	ND<10,000	ND<4.7	33,000	ND<25	ND<5,000	ND<4.8	ND<4.8	ND<130	ND<4.8	ND<5	ND<4.8	--
o-Xylenes	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.8	ND<130	ND<4.8	ND<5	ND<4.8	--
Xylenes-m,p,o	--	--	--	--	--	--	--	--	--	--	--	--	11,000
Styrene	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.8	ND<130	ND<4.8	ND<5	ND<4.8	15,000
Bromoform	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.8	ND<130	ND<4.8	ND<5	ND<4.8	69,000
Isopropylbenzene	5,300	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.8	ND<130	ND<4.8	ND<5	ND<4.8	--
1,1,2,2-Tetrachloroethane	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.8	ND<130	ND<4.8	ND<5	ND<4.8	25
1,2,3-Trichloropropane	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.6	ND<130	ND<4.6	ND<5	ND<4.8	--
Propylbenzene	7,800	ND<10,000	ND<4.7	13,000	28	ND<5,000	ND<4.8	ND<4.6	ND<130	ND<4.6	ND<5	ND<4.8	--
Bromobenzene	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.8	ND<130	ND<4.8	ND<5	ND<4.8	--
1,3,5-Trimethylbenzene	8,300	ND<10,000	ND<4.7	21,000	ND<25	ND<5,000	ND<4.8	ND<4.6	ND<130	ND<4.6	ND<5	ND<4.8	--
2-Chlorotoluene	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.6	ND<130	ND<4.6	ND<5	ND<4.8	--
4-Chlorotoluene	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.6	ND<130	ND<4.6	ND<5	ND<4.8	--
tert-Butylbenzene	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.6	ND<130	ND<4.6	ND<5	ND<4.8	--
1,2,4-Trimethylbenzene	24,000	ND<10,000	ND<4.7	80,000	ND<25	ND<5,000	ND<4.8	ND<4.6	ND<130	ND<4.6	ND<5	ND<4.8	--
sec-Butylbenzene	ND<5,000	ND<10,000	ND<4.7	ND<10,000	41	ND<5,000	ND<4.8	ND<4.6	ND<130	ND<4.6	ND<5	ND<4.8	--
para-Isopropyl Toluene	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.6	ND<130	ND<4.6	ND<5	ND<4.8	--
1,3-Dichlorobenzene	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.6	ND<130	ND<4.6	ND<5	ND<4.8	7,400
1,4-Dichlorobenzene	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.6	ND<130	ND<4.6	ND<5	ND<4.8	130
n-Butylbenzene	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.6	ND<130	ND<4.6	ND<5	ND<4.8	--
1,2-Dichlorobenzene	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.6	ND<130	ND<4.6	ND<5	ND<4.8	1,600
1,2-Dibromo-3-Chloropropane	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.6	ND<130	ND<4.6	ND<5	ND<4.8	4.5
1,2,4-Trichlorobenzene	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.6	ND<130	ND<4.6	ND<5	ND<4.8	1,000
Hexachlorobutadiene	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.6	ND<130	ND<4.6	ND<5	ND<4.8	22,000
Naphthalene	ND<5,000	ND<10,000	ND<4.7	ND<10,000	31	ND<5,000	7.5	24	ND<130	ND<4.8	ND<5	ND<4.8	1,500
1,2,3-Trichlorobenzene	ND<5,000	ND<10,000	ND<4.7	ND<10,000	ND<25	ND<5,000	ND<4.8	ND<4.6	ND<130	ND<4.6	ND<5	ND<4.8	--

Sample Designation: Example RM-S1

RM = R&M Environmental and Infrastructure Engineering, Inc.

S = south wall; N = north wall; E = east wall; W = west wall (See Figure 7)

ESL = Environmental Screening Level

ND = Not detected

* = ESLs from Table B, "ESLs Shallow Soils (< 3m bgs) Groundwater IS NOT a Current or Potential Source of Drinking Water," in "Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater" document prepared by California Regional Water Quality Control Board, February 2005.

Y = Sample exhibits chromatographic pattern which does not resemble standard

H = Heavier hydrocarbons contributed to the quantitation

C = Presence confirmed, but RPD between columns exceeds 40%

L = Lighter hydrocarbons contributed to the quantitation

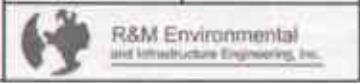
Samples analyzed by Curtis and Tompkins, Ltd.

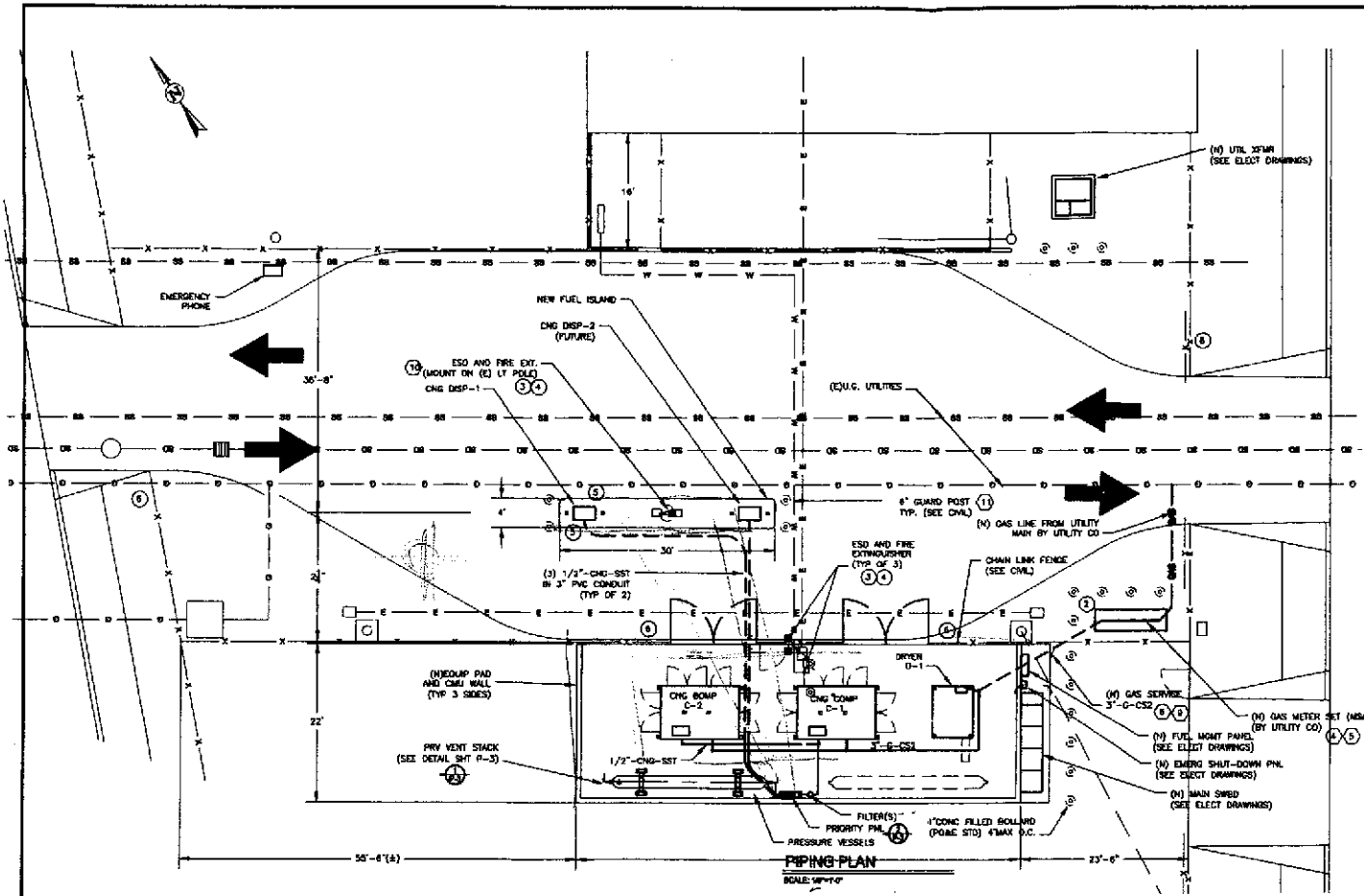


DESIGNED BY:	CHECKED BY:
DRAWN BY: CA	SCALE:
PROJECT NO:	

LOCATION MAP
209 BRUSH STREET
OAKLAND, CA

DATE: 4/20/2007 FIGURE: 1



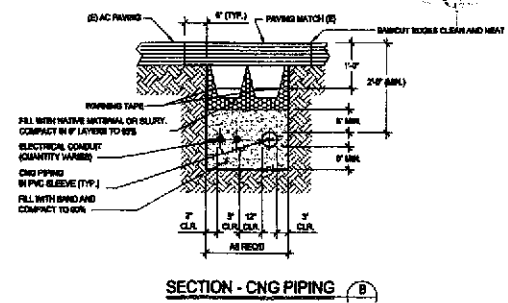
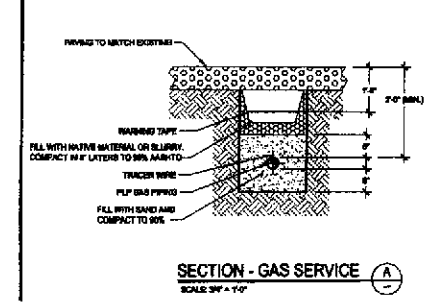


SHEET NOTES: (N)

1. COORDINATE EQUIPMENT INSTALLATION AND PIPE ROUTING WITH OTHER WORK INCLUDING CONCRETE AND ELECTRICAL.
2. REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3. VERIFY LOCATION OF EXISTING UTILITIES AND UNDERGROUND CONDUITS PRIOR TO CONSTRUCTION.
4. PROVIDE METER PAD AND TRAFFIC BARRIERS PER POSE REQUIREMENTS.
5. COORDINATE ROUTING AND INSTALLATION OF NEW GAS AND ELECTRIC SERVICE WITH POSE.
6. INSTALLATION SHALL MEET Pacific Gas & Electric STANDARDS INCLUDING PSEB STANDARDS 22.15.
7. FINISHES FULL DEPTH PVC PIPE SLEEVES AROUND ALL PRIMARY PIPING OR TUBING PASSING THROUGH CONCRETE. SEAL VOID BETWEEN PIPING AND SLEEVES WITH WEATHER RESISTANT SEALANT.
8. EQUIPMENT DIMENSIONS AND TIE-IN POINTS ARE APPROXIMATE. COORDINATE INSTALLATION IN THE FIELD BASED UPON ACTUAL EQUIPMENT PROVIDED.
9. BURIED STEEL PIPING SHALL BE ELECTRICALLY ISOLATED FROM ABOVE GROUND PIPING, STRUCTURES AND EQUIPMENT, AND CATHODICALLY PROTECTED IN ACCORDANCE WITH REQUIREMENTS OF THE NATIONAL FIRE GAS CODE AND NATIONAL ASSOCIATION OF CORROSION ENGINEERS (NACE) STANDARD RP0296-2002.
10. EMERGENCY SHUT-DOWN PUSH BUTTON (ESD) SHALL BE LOCATED WITHIN 100 FEET OF UNIMPEDANCE.
11. HAND DIG TO ENSURE ADEQUATE CLEARANCE IS MAINTAINED FROM EXISTING UNDERGROUND UTILITIES WHERE KNOWN.

LEGEND:

- (N) MESSAGE. SEE SHEET P-4 FOR DETAILS



JOB SITE



REV	DATE	REVISIONS

30320 OLD RANCH PARKWAY
SUITE 200
BEACH, CA 90740
SEAN (562) 493-2804
TEL: (562) 493-2804
FAX: (562) 493-4532



Figure 3 - CNG FUELING STATION
ELECTRICAL
209 BRUSH STREET
OAKLAND, CALIFORNIA
PIPING PLAN AND SECTIONS

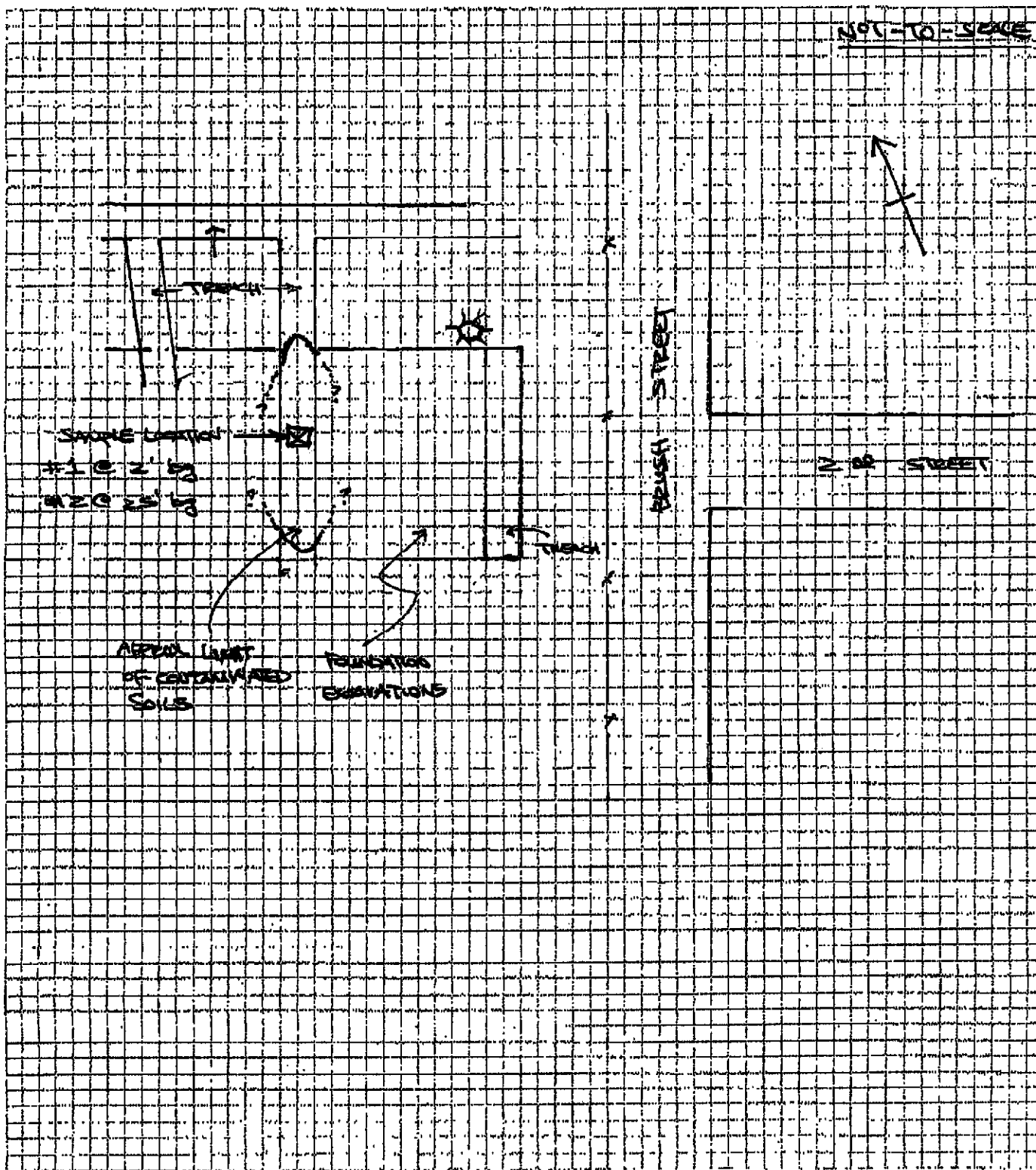
DATE: 1/15/97
SCALE: AS SHOWN
TDM

Figure 4 - Approximate Location where Soil Samples Were Collected on 04/16/07



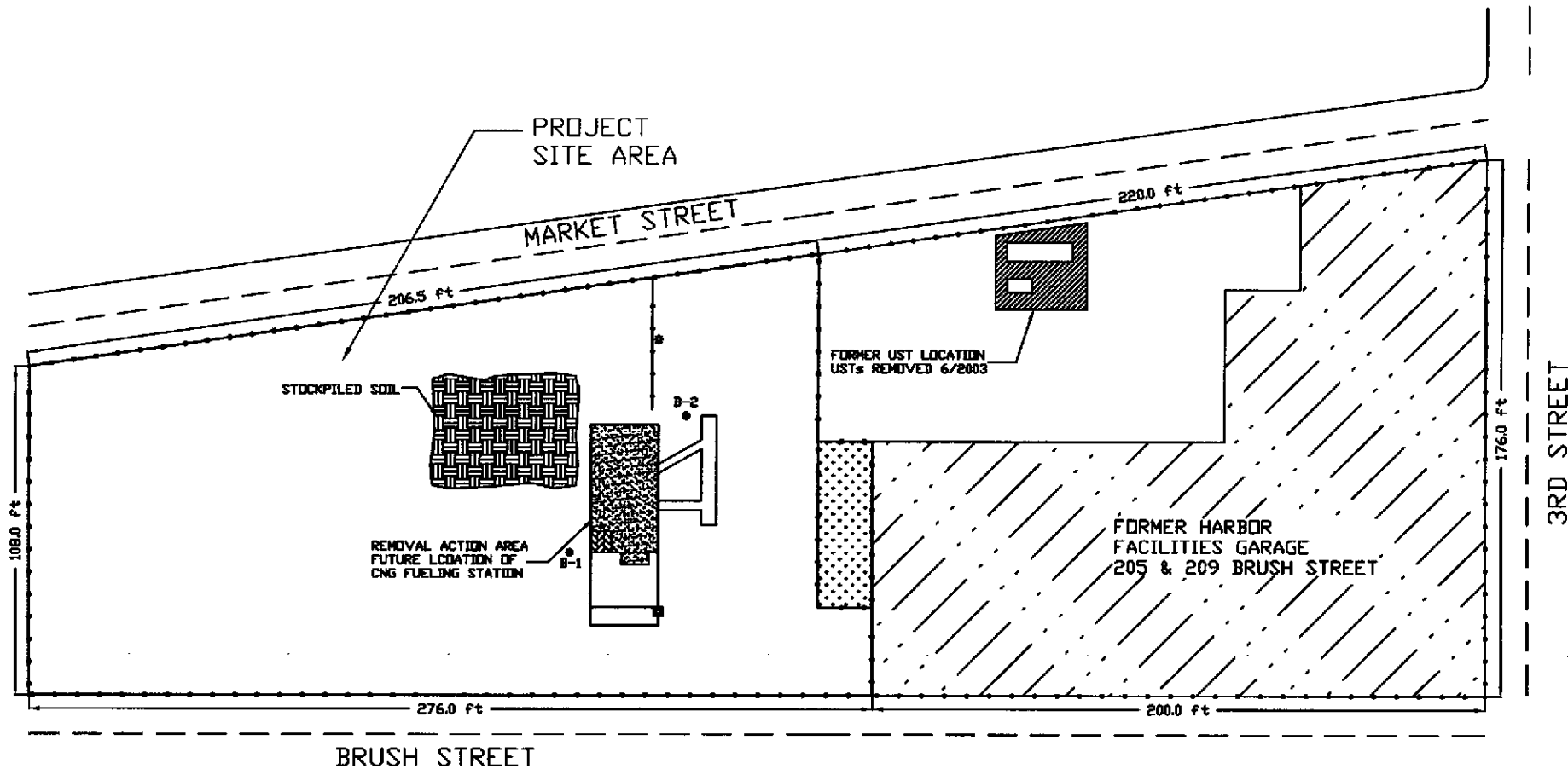
PROJECT CNG STATION @ 2ND & BUSH
(01021-00)
SUBJECT SOIL SAMPLE LOCATIONS

PAGE 1 OF 1
DATE 4/16/07



GEOLABS, INC.

RAILROAD TRACKS




BRUSH STREET

2ND STREET

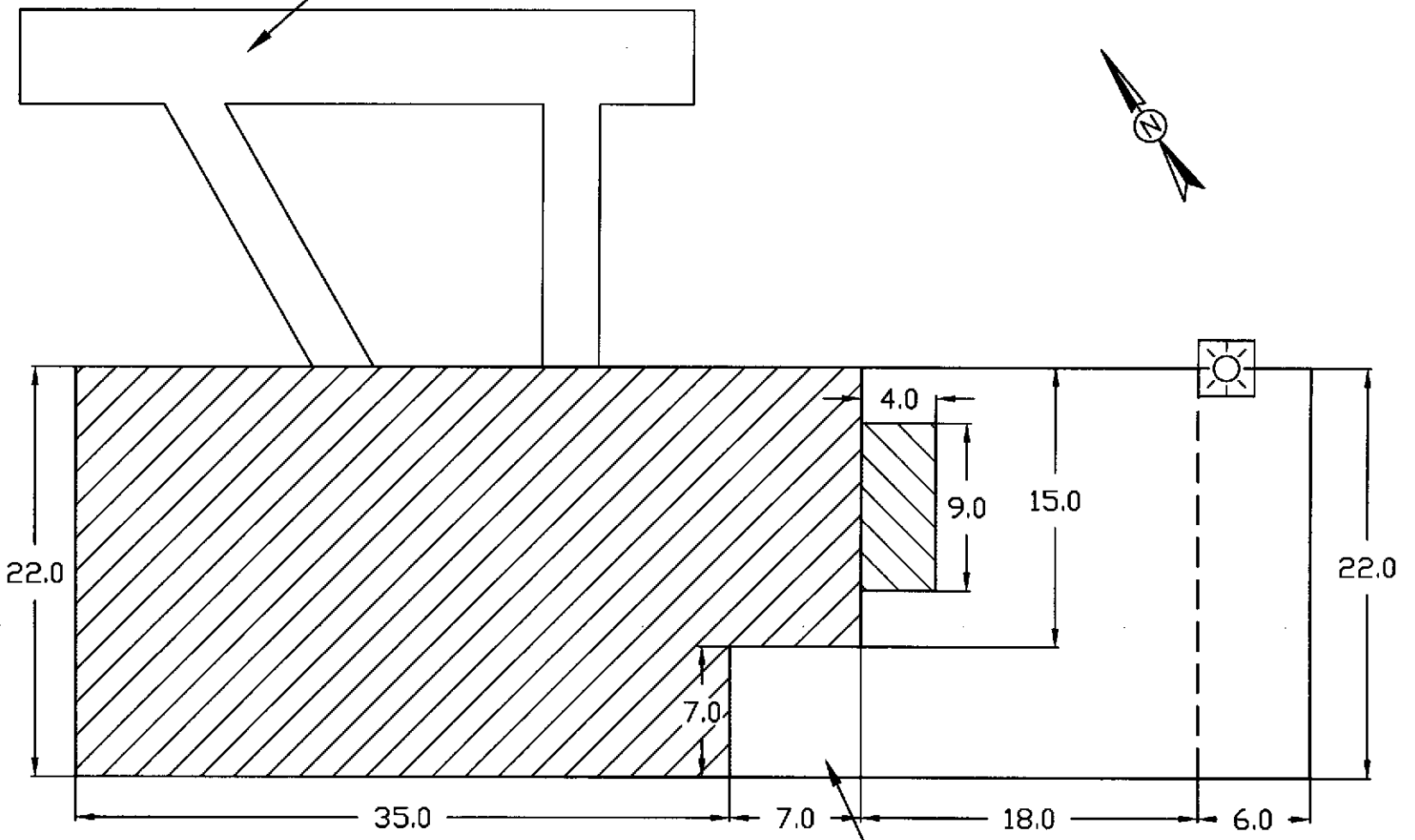
3RD STREET


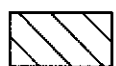


● - BORING LOCATION FROM A GEOTECHNICAL STUDY PERFORMED ON 11/10/2006 BY GEOLABS, INC.

DESIGNED BY:	CHECKED BY:	DIMENSIONAL LAYOUT OF REMOVAL ACTION AREA AND ADJOINING PROPERTIES 205/209 BRUSH STREET OAKLAND, CA	DATE: 5/9/2007	FIGURE: 5
DRAWN BY: CA	SCALE:		 R&M Environmental and Infrastructure Engineering, Inc.	
PROJECT NO:				

TRENCHES DUG FOR
CNG FUELING STATION

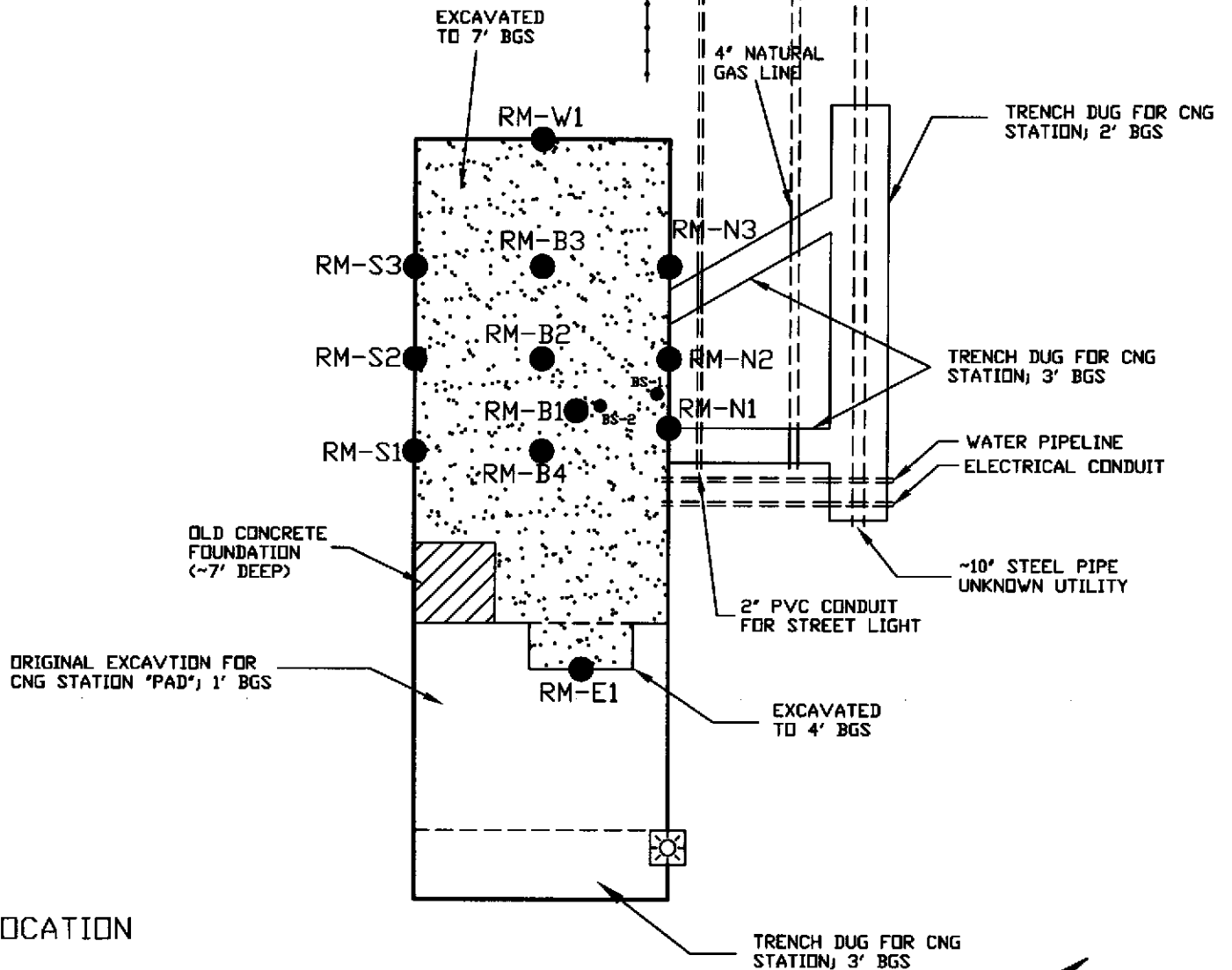


- LEGEND**
-  - EXCAVATED TO 7 FT BGS
 -  - EXCAVATED TO 4 FT BGS

CONCRETE BLOCK

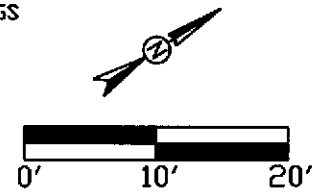
ALL DIMENSIONS IN FEET

DESIGNED BY:	CHECKED BY:	REMOVAL ACTION AREA DIMENSIONS 205/209 BRUSH STREET OAKLAND, CA	DATE: 4/26/2007	FIGURE: 6
DRAWN BY: CA	SCALE:		 R&M Environmental and Infrastructure Engineering, Inc.	
PROJECT NO:				

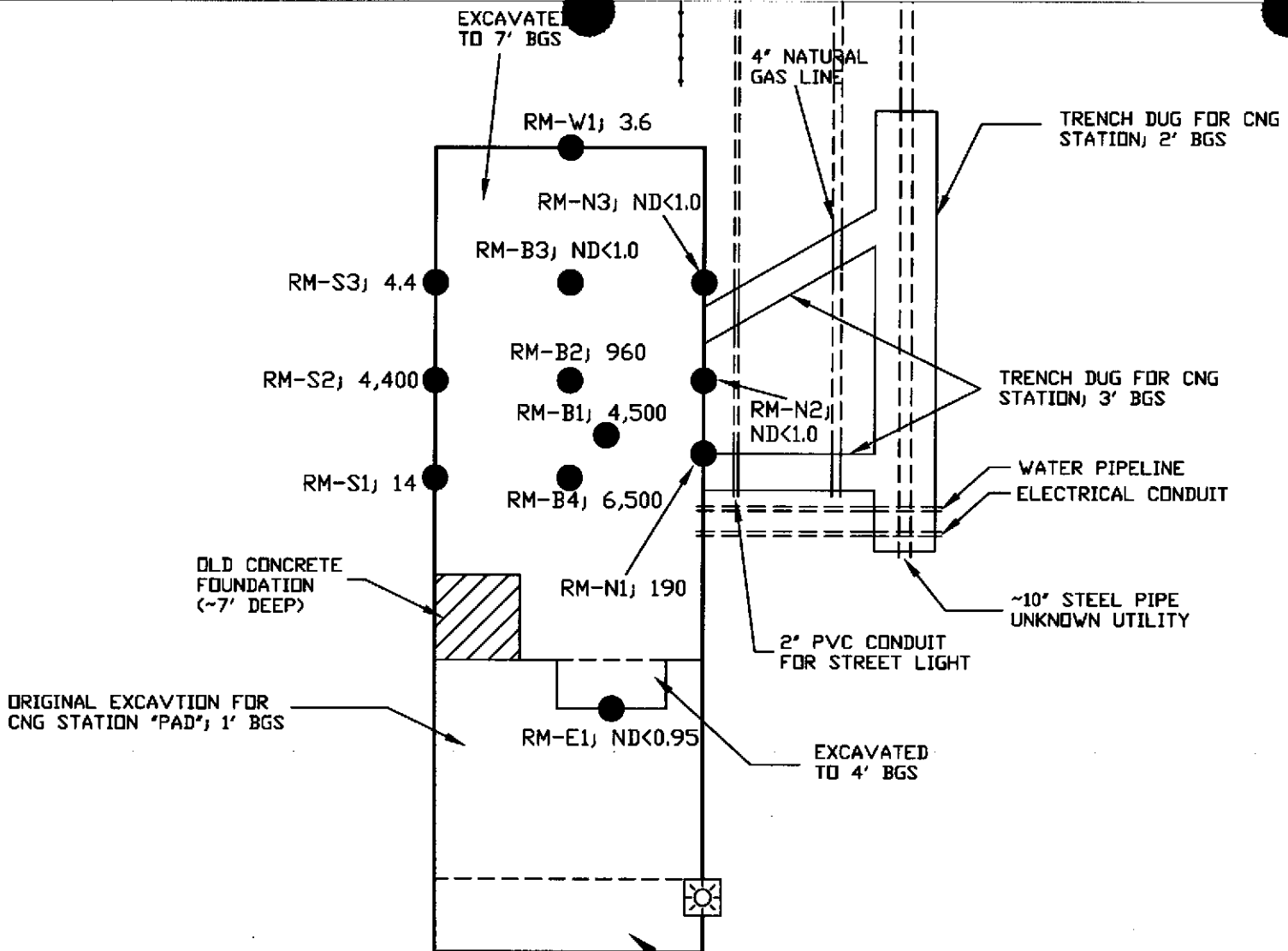


LEGEND

- - SOIL SAMPLING LOCATION
- ☀ - LIGHT POLE
- - SOIL SAMPLE FOR HEADSPACE PID
- ▨ - REMOVAL ACTION AREA



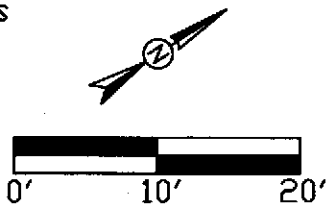
DESIGNED BY:	CHECKED BY:	SOIL SAMPLING LOCATIONS 205/209 BRUSH STREET OAKLAND, CA	DATE: 4/26/2007	FIGURE: 7
DRAWN BY: CA	SCALE:			
PROJECT NO:				



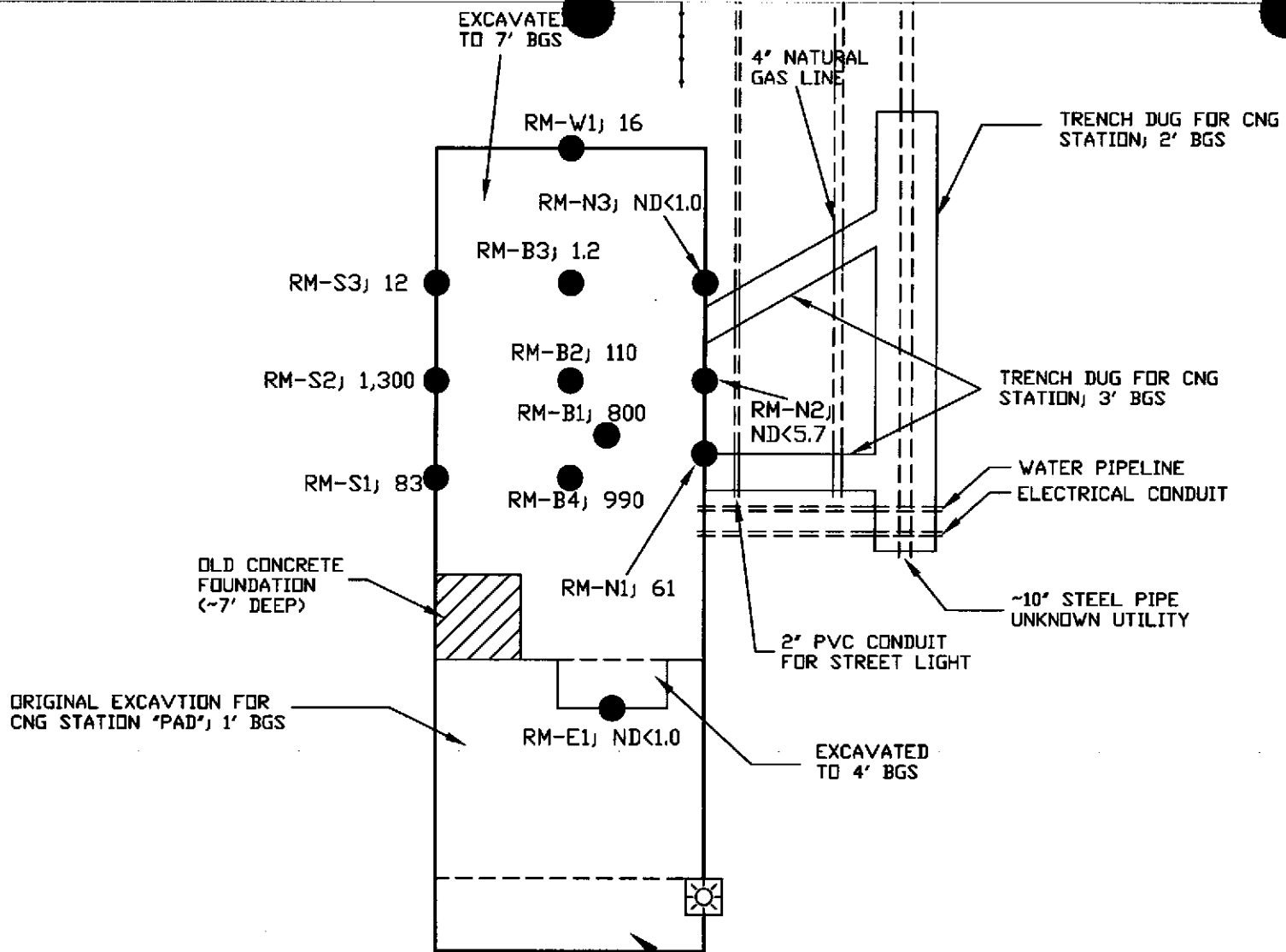
LEGEND

- - SOIL SAMPLING LOCATION
- ☀ - LIGHT POLE
- ▨ - REMOVAL ACTION AREA

BGS = BELOW GROUND SURFACE
RESULTS IN mg/Kg



DESIGNED BY:	CHECKED BY:	ANALYTICAL RESULTS FOR TPH-G 205/209 BRUSH STREET OAKLAND, CA	DATE: 4/26/2007	FIGURE: 8
DRAWN BY: CA	SCALE:			
PROJECT NO:				



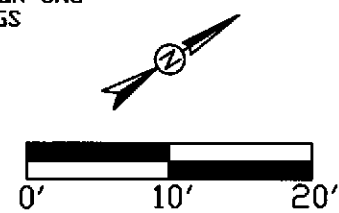
LEGEND

● - SOIL SAMPLING LOCATION

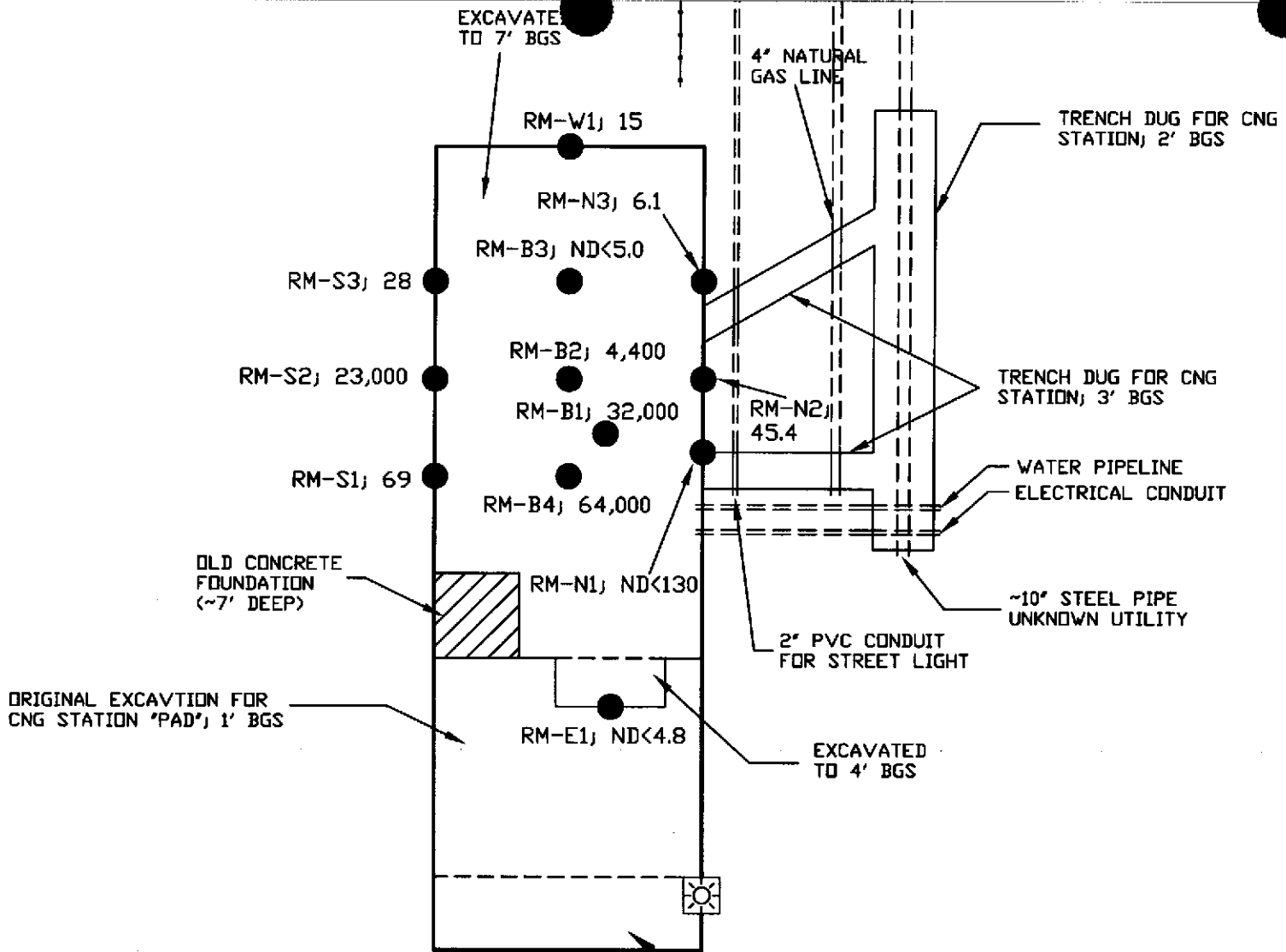
☀ - LIGHT POLE

▨ - REMOVAL ACTION AREA

BGS = BELOW GROUND SURFACE
RESULTS IN mg/Kg



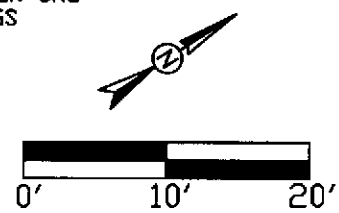
DESIGNED BY:	CHECKED BY:	ANALYTICAL RESULTS FOR TPH-D 205/209 BRUSH STREET OAKLAND, CA	DATE: 4/26/2007	FIGURE: 9
DRAWN BY: CA	SCALE:			
PROJECT NO:				



LEGEND

- - SOIL SAMPLING LOCATION
- ☀ - LIGHT POLE
- ▨ - REMOVAL ACTION AREA

BGS = BELOW GROUND SURFACE
RESULTS IN ug/Kg



DESIGNED BY:	CHECKED BY:	ANALYTICAL RESULTS FOR m,p,o-XYLENES 205/209 BRUSH STREET OAKLAND, CA	DATE: 4/28/2007	FIGURE: 10
DRAWN BY: CA	SCALE:			
PROJECT NO:				

APPENDIX A
PHOTOGRAPHS OF SITE ACTIVITIES



**Photo #1 – One of the two CNG compressor units for the fueling station
(Facing north; 4/20/2007)**



Photo #2 – Prior to the start of the removal action contractor had left site covered with plastic sheeting – note the accumulated rainwater (Looking west; 4/20/2007)



Photo #3 – Pre-excavation view of excavation upon arrival at the site on the morning of April 25, 2007 (Looking west toward Market Street)



Water on Visqueen® sheets being emptied into the trench



Accumulated rainwater drained into trenches; LEL monitoring near exposed soil surface (Facing north)



Rainwater drained into the excavation

Photo #4 – Handling the accumulated rainwater (4/25/2007)



(Up-close view of storm drain)



(Facing north-west)

Photo #5 - Storm drain, located in the northern corner of the site, bordered with straw wattles and weighed down with sandbags



Beginning of excavation near the previously trenched area



Excavation of dark-colored contaminated soil



Size/shape/depth of excavation before being instructed by the City Inspector to increase the depth of excavation (Facing northwest)



Addition of excavated soil to the stockpile

Photo #6 - John Deere 225C excavator used for soil excavation and stockpiling (4/25/2007)



**Photo #7 - PID and LEL/O₂/H₂S/CO monitoring upon exposure of surface soil
(Facing south; 4/25/2007)**



Photo #8 - Potholing a location further east within the pad footprint; since soil at this location appeared to be uncontaminated this location was defined as the “benchmark” and the eastern limit of soil excavation (Facing east; 4/25/2007)



**Photo #9 - View of final excavation (~ 7 ft deep) after confirmation sampling – note the old concrete foundation under man's feet
(Looking east toward Brush Street; 4/25/2007)**



Photo #10 – Condition of excavation on morning of 4/26/2007, groundwater came to the surface during the night



Freshly exposed black material



**PID monitoring near the excavation surface; note the black color of the odor-causing soil
(Facing east)**

Photo #11 -- (4/25/2007)



Black material on the north corner of the excavation wall; material had a faint odor (4/25/2007)



Close-up of black soils that appear to have heavy hydrocarbon staining; material had a faint odor (4/25/2007)

Photo #12



**Photo #13 - Additional Visqueen® sheet being placed on the ground to expand the existing stockpile area
(Facing east; 4/25/2007)**



**Photo #14 - Stockpile, covered with Visqueen sheets, weighed down with sandbags and bordered with straw wattles
(Facing East; 4/25/2007)**



Photo #15 – Off-haul truck being loaded with load #4 from stockpiled soil (4/27/2007)



**Photo #16 – Off-haul truck loaded with load #13, covered with a tarp, leaving for the
Altamont Landfill
(Facing southwest corner of site; 4/27/2007)**



Photo #17 - Collection of confirmation soil samples in 6" X 1.5" stainless steel tubes from the materials brought to the surface in the excavator bucket (4/25/2007)

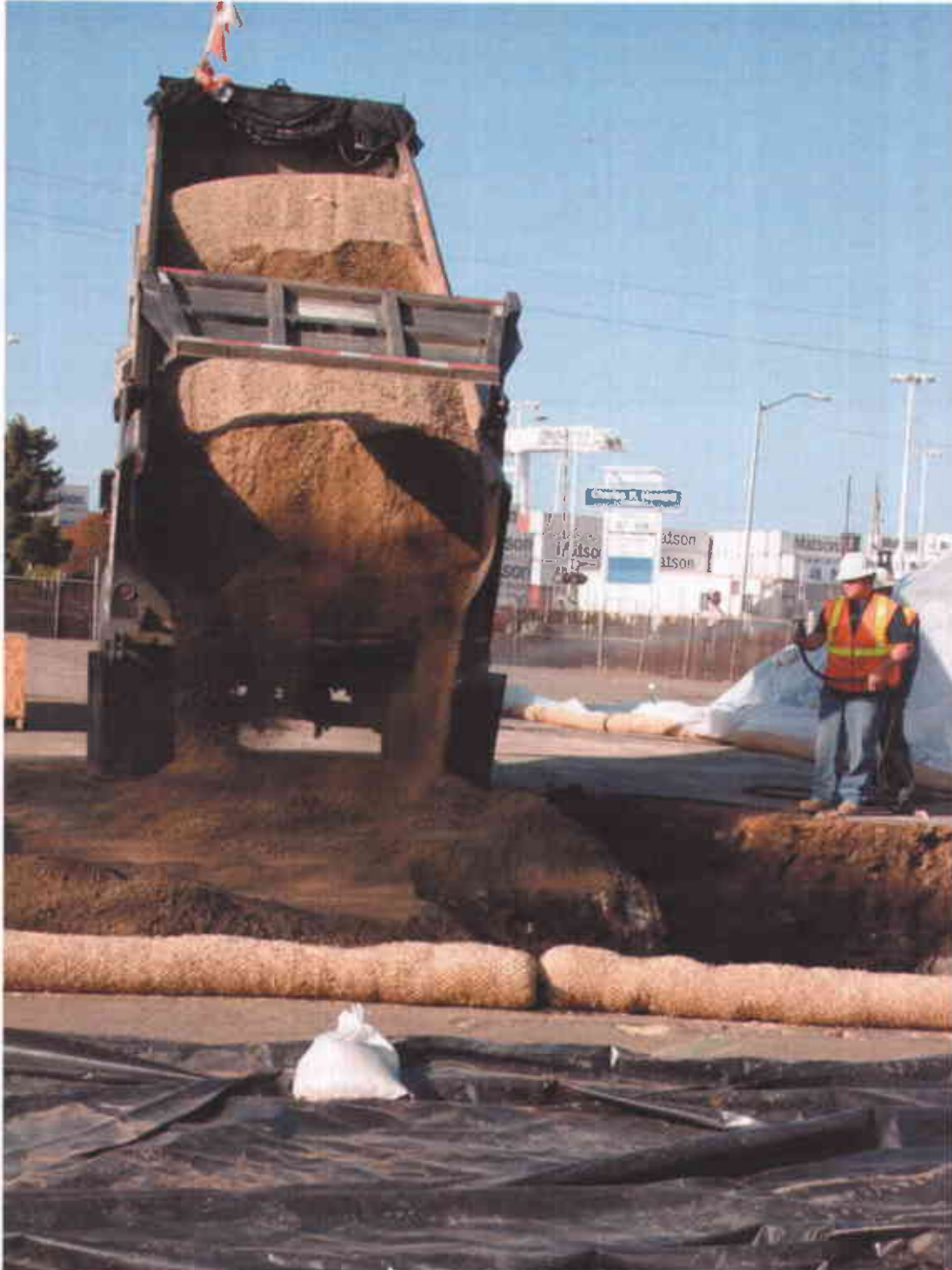


Photo #18 – Backfilling operations: the second load of backfill material being emptied into the excavation at the location of concrete foundation (Note the water being sprayed to impart moisture for compaction; 4/26/2007)



Photo #19 – Backfilling operations: John Deere 544 loader pushing backfill material into the excavation (4/26/2007)



(Facing west)



(Facing east)

Photo #20 – Backfilling operations: adding water to the soil to insure proper moisture content for compaction (4/26/2007)



Photo #21 – Backfilling operations: Initial use of a one-ton John Deere CP-40 sheep foot compactor for backfill compaction (Facing east; 4/26/2007)



Photo #22 – Backfilling operations: Field compaction tests being conducted with a Troxler Nuclear Gauge (4/26/2007)



**Photo #23 – Backfilling operations: utilizing a 5-ton Ingersoll-Rand SD-45 sheep foot compactor
(Facing north; 4/27/2007)**



Facing west



Facing east



Southern section of the site

Photo #24 – Completion of removal action: final condition of the site as it was turned over to Clean Energy at 11:19 a.m. on 4/30/2007



Photo #25 – PID monitoring near the surface of the stockpile (4/25/2007)



Photo #26 – A truck containing cows moving north on Market Street near the site (Note: a strong stockyard odor was noted at the site at this time and on several other occasions throughout the day; 4/25/2007)



Cleaning equipment before return to rental agency



Cleaning soil off of the excavator's treads

Photo #27: Cleaning of the equipment before removing them from the work area (4/26/07)



Photo #28 – Cleaning prior to leaving the site for the day (4/26/2007)

APPENDIX B

**CERTIFIED ANALYTICAL REPORTS FOR SOIL/GROUNDWATER SAMPLING AND
CHAIN-OF-CUSTODY DOCUMENTATION**

- ❖ **Curtis and Tompkins, Ltd. Laboratory Report Nos. 194170 and 194289 for two soil samples collected by Geolabs, Inc. on 04/16/07**

- ❖ **Chain-of-custody records and Curtis and Tompkins, Ltd. Laboratory Report No. 194375 for 12 soil samples collected by R&M on 04/25/07**

California Title 26 Metals

Lab #:	194289	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	METHOD
Project#:	OL1081-00		
Field ID:	#1	Diln Fac:	1.000
Lab ID:	194289-001	Sampled:	04/16/07
Matrix:	Soil	Received:	04/16/07
Units:	mg/Kg	Prepared:	04/23/07
Basis:	as received	Analyzed:	04/23/07

Analyte	Result	RL	Batch#	Analysis
Antimony	ND	0.50	124423 EPA	6010B
Arsenic	1.5	0.26	124423 EPA	6010B
Barium	73	0.26	124423 EPA	6010B
Beryllium	0.17	0.10	124423 EPA	6010B
Cadmium	ND	0.26	124423 EPA	6010B
Chromium	28	0.26	124423 EPA	6010B
Cobalt	3.8	0.26	124423 EPA	6010B
Copper	8.3	0.26	124423 EPA	6010B
Lead	19	0.16	124423 EPA	6010B
Mercury	0.13	0.020	124441 EPA	7471A
Molybdenum	ND	0.26	124423 EPA	6010B
Nickel	16	0.26	124423 EPA	6010B
Selenium	ND	0.50	124423 EPA	6010B
Silver	ND	0.26	124423 EPA	6010B
Thallium	ND	0.50	124423 EPA	6010B
Vanadium	20	0.26	124423 EPA	6010B
Zinc	21	1.0	124423 EPA	6010B

ND = Not Detected
 RL = Reporting Limit

California Title 26 Metals

Lab #:	194289	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	METHOD
Project#:	OL1081-00		
Field ID:	#2	Diln Fac:	1.000
Lab ID:	194289-002	Sampled:	04/16/07
Matrix:	Soil	Received:	04/16/07
Units:	mg/Kg	Prepared:	04/23/07
Basis:	as received	Analyzed:	04/23/07

Analyte	Result	RL	Batch#	Analysis
Antimony	ND	0.50	124423	EPA 6010B
Arsenic	1.6	0.25	124423	EPA 6010B
Barium	55	0.25	124423	EPA 6010B
Beryllium	0.17	0.10	124423	EPA 6010B
Cadmium	ND	0.25	124423	EPA 6010B
Chromium	30	0.25	124423	EPA 6010B
Cobalt	4.2	0.25	124423	EPA 6010B
Copper	6.1	0.25	124423	EPA 6010B
Lead	1.7	0.15	124423	EPA 6010B
Mercury	0.038	0.020	124441	EPA 7471A
Molybdenum	ND	0.25	124423	EPA 6010B
Nickel	17	0.25	124423	EPA 6010B
Selenium	ND	0.50	124423	EPA 6010B
Silver	ND	0.25	124423	EPA 6010B
Thallium	ND	0.50	124423	EPA 6010B
Vanadium	21	0.25	124423	EPA 6010B
Zinc	14	1.0	124423	EPA 6010B

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

California Title 26 Metals

Lab #:	194289	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	METHOD
Project#:	OL1081-00	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC384649	Batch#:	124423
Matrix:	Soil	Prepared:	04/23/07
Units:	mg/Kg	Analyzed:	04/23/07
Basis:	as received		

Analyte	Result	RL
Antimony	ND	0.50
Arsenic	ND	0.25
Barium	ND	0.25
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.25
Cobalt	ND	0.25
Copper	ND	0.25
Lead	ND	0.15
Molybdenum	ND	0.25
Nickel	ND	0.25
Selenium	ND	0.50
Silver	ND	0.25
Thallium	ND	0.50
Vanadium	ND	0.25
Zinc	ND	1.0

ND = Not Detected
 RL = Reporting Limit

Batch QC Report

California Title 26 Metals			
Lab #:	194289	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	METHOD
Project#:	OL1081-00	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	124423
Units:	mg/Kg	Prepared:	04/23/07
Basis:	as received	Analyzed:	04/23/07
Diln Fac:	1.000		

Type: BS Lab ID: QC384650

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	104.3	104	80-120
Arsenic	50.00	55.00	110	80-120
Barium	100.0	108.9	109	80-120
Beryllium	2.500	2.888	116	80-120
Cadmium	10.00	11.60	116	80-120
Chromium	100.0	109.6	110	80-120
Cobalt	25.00	26.29	105	80-120
Copper	12.50	13.43	107	80-120
Lead	100.0	109.1	109	80-120
Molybdenum	20.00	22.97	115	80-120
Nickel	25.00	26.56	106	80-120
Selenium	50.00	54.96	110	80-120
Silver	10.00	10.69	107	80-120
Thallium	50.00	55.87	112	80-120
Vanadium	25.00	27.17	109	80-120
Zinc	25.00	26.12	104	80-120

Type: BSD Lab ID: QC384651

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	105.8	106	80-120	1	20
Arsenic	50.00	54.98	110	80-120	0	20
Barium	100.0	107.8	108	80-120	1	20
Beryllium	2.500	2.855	114	80-120	1	20
Cadmium	10.00	11.65	117	80-120	0	20
Chromium	100.0	108.4	108	80-120	1	20
Cobalt	25.00	26.08	104	80-120	1	20
Copper	12.50	13.20	106	80-120	2	20
Lead	100.0	108.8	109	80-120	0	20
Molybdenum	20.00	22.96	115	80-120	0	20
Nickel	25.00	26.51	106	80-120	0	20
Selenium	50.00	54.13	108	80-120	2	20
Silver	10.00	10.61	106	80-120	1	20
Thallium	50.00	55.07	110	80-120	1	20
Vanadium	25.00	26.88	108	80-120	1	20
Zinc	25.00	25.70	103	80-120	2	20

Batch QC Report

California Title 26 Metals			
Lab #:	194289	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	METHOD
Project#:	OL1081-00	Analysis:	EPA 6010B
Field ID:	#1	Batch#:	124423
MSS Lab ID:	194289-001	Sampled:	04/16/07
Matrix:	Soil	Received:	04/16/07
Units:	mg/Kg	Prepared:	04/23/07
Basis:	as received	Analyzed:	04/23/07
Diln Fac:	1.000		

Type: MS Lab ID: QC384652

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	<0.09082	93.46	57.54	62	1-129
Arsenic	1.538	46.73	50.25	104	72-120
Barium	72.71	93.46	171.1	105	49-138
Beryllium	0.1748	2.336	2.808	113	80-120
Cadmium	0.06641	9.346	10.52	112	72-120
Chromium	27.54	93.46	125.7	105	63-122
Cobalt	3.812	23.36	27.29	100	61-120
Copper	8.301	11.68	20.63	106	59-137
Lead	19.19	93.46	116.8	104	55-122
Molybdenum	0.06600	18.69	19.76	105	66-120
Nickel	15.69	23.36	40.18	105	45-139
Selenium	<0.04910	46.73	48.61	104	73-120
Silver	<0.05955	9.346	9.913	106	53-120
Thallium	<0.08918	46.73	48.64	104	64-120
Vanadium	20.06	23.36	44.35	104	55-139
Zinc	20.95	23.36	43.64	97	49-140

Type: MSD Lab ID: QC384653

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	97.09	60.62	62	1-129	1	23
Arsenic	48.54	53.40	107	72-120	2	20
Barium	97.09	173.8	104	49-138	1	23
Beryllium	2.427	2.929	113	80-120	1	20
Cadmium	9.709	11.37	116	72-120	4	20
Chromium	97.09	129.8	105	63-122	0	20
Cobalt	24.27	28.78	103	61-120	2	23
Copper	12.14	20.89	104	59-137	1	20
Lead	97.09	121.7	106	55-122	1	26
Molybdenum	19.42	20.88	107	66-120	2	20
Nickel	24.27	41.32	106	45-139	1	26
Selenium	48.54	51.47	106	73-120	2	20
Silver	9.709	10.37	107	53-120	1	22
Thallium	48.54	50.92	105	64-120	1	20
Vanadium	24.27	45.74	106	55-139	1	20
Zinc	24.27	43.97	95	49-140	1	23

RPD= Relative Percent Difference

Batch QC Report

California Title 26 Metals			
Lab #:	194289	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	METHOD
Project#:	OL1081-00	Analysis:	EPA 7471A
Analyte:	Mercury	Basis:	as received
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC384727	Batch#:	124441
Matrix:	Soil	Prepared:	04/23/07
Units:	mg/Kg	Analyzed:	04/23/07

Result	RL
ND	0.020

ND = Not Detected
 RL = Reporting Limit

Batch QC Report

California Title 26 Metals			
Lab #:	194289	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	METHOD
Project#:	OL1081-00	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Matrix:	Soil	Batch#:	124441
Units:	mg/Kg	Prepared:	04/23/07
Basis:	as received	Analyzed:	04/23/07

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC384728	0.5000	0.4620	92	80-120		
BSD	QC384729	0.5000	0.4640	93	80-120	0	20

RPD= Relative Percent Difference

Batch QC Report

California Title 26 Metals			
Lab #:	194289	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	METHOD
Project#:	OL1081-00	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	124441
MSS Lab ID:	194221-004	Sampled:	04/18/07
Matrix:	Soil	Received:	04/18/07
Units:	mg/Kg	Prepared:	04/23/07
Basis:	as received	Analyzed:	04/23/07

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC384731	0.007700	0.5000	0.5410	107	67-143		
MSD	QC384732		0.5000	0.5070	100	67-143	6	23

RPD= Relative Percent Difference

Curtis & Tompkins Laboratories Analytical Report

Lab #:	194170	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	EPA 5030B
Project#:	OL1081-00		
Matrix:	Soil	Sampled:	04/16/07
Basis:	as received	Received:	04/16/07
Diln Fac:	1.000		

Field ID: #1 Batch#: 124267
Type: SAMPLE Analyzed: 04/17/07
Lab ID: 194170-001

Analyte	Result	RL	Units	Analysis
Gasoline C7-C12	1.9 H	1.0	mg/Kg	EPA 8015B
Benzene	ND	5.1	ug/Kg	EPA 8021B
Toluene	ND	5.1	ug/Kg	EPA 8021B
Ethylbenzene	7.4	5.1	ug/Kg	EPA 8021B
m,p-Xylenes	23	5.1	ug/Kg	EPA 8021B
o-Xylene	14	5.1	ug/Kg	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	102	70-132	EPA 8015B
Bromofluorobenzene (FID)	104	66-138	EPA 8015B
Trifluorotoluene (PID)	98	63-142	EPA 8021B
Bromofluorobenzene (PID)	100	70-129	EPA 8021B

Field ID: #2 Batch#: 124310
Type: SAMPLE Analyzed: 04/18/07
Lab ID: 194170-002

Analyte	Result	RL	Units	Analysis
Gasoline C7-C12	9.1 H Y	1.0	mg/Kg	EPA 8015B
Benzene	ND	5.1	ug/Kg	EPA 8021B
Toluene	ND	5.1	ug/Kg	EPA 8021B
Ethylbenzene	ND	5.1	ug/Kg	EPA 8021B
m,p-Xylenes	ND	5.1	ug/Kg	EPA 8021B
o-Xylene	36 C	5.1	ug/Kg	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	116	70-132	EPA 8015B
Bromofluorobenzene (FID)	198 *	66-138	EPA 8015B
Trifluorotoluene (PID)	106	63-142	EPA 8021B
Bromofluorobenzene (PID)	145 *	70-129	EPA 8021B

*= Value outside of QC limits; see narrative
C= Presence confirmed, but RPD between columns exceeds 40%
H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
D= Not Detected
RL= Reporting Limit

Curtis & Tompkins Laboratories Analytical Report

Lab #:	194170	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	EPA 5030B
Project#:	OL1081-00		
Matrix:	Soil	Sampled:	04/16/07
Basis:	as received	Received:	04/16/07
Diln Fac:	1.000		

Type: BLANK Batch#: 124267
 Lab ID: QC384047 Analyzed: 04/17/07

Analyte	Result	RL	Units	Analysis
Gasoline C7-C12	ND	1.0	mg/Kg	EPA 8015B
Benzene	ND	5.0	ug/Kg	EPA 8021B
Toluene	ND	5.0	ug/Kg	EPA 8021B
Ethylbenzene	ND	5.0	ug/Kg	EPA 8021B
m,p-Xylenes	ND	5.0	ug/Kg	EPA 8021B
o-Xylene	ND	5.0	ug/Kg	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	97	70-132	EPA 8015B
Bromofluorobenzene (FID)	83	66-138	EPA 8015B
Trifluorotoluene (PID)	96	63-142	EPA 8021B
Bromofluorobenzene (PID)	81	70-129	EPA 8021B

Type: BLANK Batch#: 124310
 Lab ID: QC384220 Analyzed: 04/18/07

Analyte	Result	RL	Units	Analysis
Gasoline C7-C12	ND	0.20	mg/Kg	EPA 8015B
Benzene	ND	1.0	ug/Kg	EPA 8021B
Toluene	ND	1.0	ug/Kg	EPA 8021B
Ethylbenzene	ND	1.0	ug/Kg	EPA 8021B
m,p-Xylenes	ND	1.0	ug/Kg	EPA 8021B
o-Xylene	ND	1.0	ug/Kg	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	97	70-132	EPA 8015B
Bromofluorobenzene (FID)	102	66-138	EPA 8015B
Trifluorotoluene (PID)	94	63-142	EPA 8021B
Bromofluorobenzene (PID)	101	70-129	EPA 8021B

*= Value outside of QC limits; see narrative
 C= Presence confirmed, but RPD between columns exceeds 40%
 H= Heavier hydrocarbons contributed to the quantitation
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 D= Not Detected
 RL= Reporting Limit

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	194170	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	EPA 5030B
Project#:	OL1081-00	Analysis:	EPA 8021B
Type:	LCS	Basis:	as received
Lab ID:	QC384048	Diln Fac:	1.000
Matrix:	Soil	Batch#:	124267
Units:	ug/Kg	Analyzed:	04/17/07

Analyte	Spiked	Result	%REC	Limits
Benzene	100.0	86.53	87	80-120
Toluene	100.0	86.33	86	80-120
Ethylbenzene	100.0	96.47	96	80-120
m,p-Xylenes	100.0	91.76	92	80-120
o-Xylene	100.0	90.42	90	80-120

Surrogate	%REC	Limits
Trifluorotoluene (PID)	88	63-142
Bromofluorobenzene (PID)	81	70-129

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report			
Lab #:	194170	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	EPA 5030B
Project#:	OL1081-00	Analysis:	EPA 8015B
Type:	LCS	Basis:	as received
Lab ID:	QC384049	Diln Fac:	1.000
Matrix:	Soil	Batch#:	124267
Units:	mg/Kg	Analyzed:	04/17/07

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	10.00	8.886	89	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	117	70-132
Bromofluorobenzene (FID)	110	66-138

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report			
Lab #:	194170	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	EPA 5030B
Project#:	OL1081-00	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	194211-008	Batch#:	124267
Matrix:	Soil	Sampled:	04/17/07
Units:	mg/Kg	Received:	04/17/07
Basis:	as received	Analyzed:	04/17/07

Type: MS Lab ID: QC384078

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.06223	9.804	6.567	66	36-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	103	70-132
Bromofluorobenzene (FID)	103	66-138

Type: MSD Lab ID: QC384079

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.10	6.925	68	36-120	2	29

Surrogate	%REC	Limits
Trifluorotoluene (FID)	107	70-132
Bromofluorobenzene (FID)	97	66-138

RPD= Relative Percent Difference

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	194170	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	EPA 5030B
Project#:	OL1081-00	Analysis:	EPA 8021B
Type:	LCS	Basis:	as received
Lab ID:	QC384221	Diln Fac:	1.000
Matrix:	Soil	Batch#:	124310
Units:	ug/Kg	Analyzed:	04/18/07

Analyte	Spiked	Result	%REC	Limits
Benzene	100.0	102.8	103	80-120
Toluene	100.0	100.2	100	80-120
Ethylbenzene	100.0	103.7	104	80-120
m,p-Xylenes	100.0	111.0	111	80-120
o-Xylene	100.0	110.8	111	80-120

Surrogate	%REC	Limits
Trifluorotoluene (PID)	108	63-142
Bromofluorobenzene (PID)	122	70-129

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report			
Lab #:	194170	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	EPA 5030B
Project#:	OL1081-00	Analysis:	EPA 8015B
Type:	LCS	Basis:	as received
Lab ID:	QC384222	Diln Fac:	1.000
Matrix:	Soil	Batch#:	124310
Units:	mg/Kg	Analyzed:	04/18/07

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	10.00	8.939	89	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	110	70-132
Bromofluorobenzene (FID)	125	66-138

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report			
Lab #:	194170	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	EPA 5030B
Project#:	OL1081-00	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	194179-006	Batch#:	124310
Matrix:	Soil	Sampled:	04/09/07
Units:	mg/Kg	Received:	04/09/07
Basis:	as received	Analyzed:	04/18/07

Type: MS Lab ID: QC384257

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.06680	9.901	9.120	91	36-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	108	70-132
Bromofluorobenzene (FID)	127	66-138

Type: MSD Lab ID: QC384258

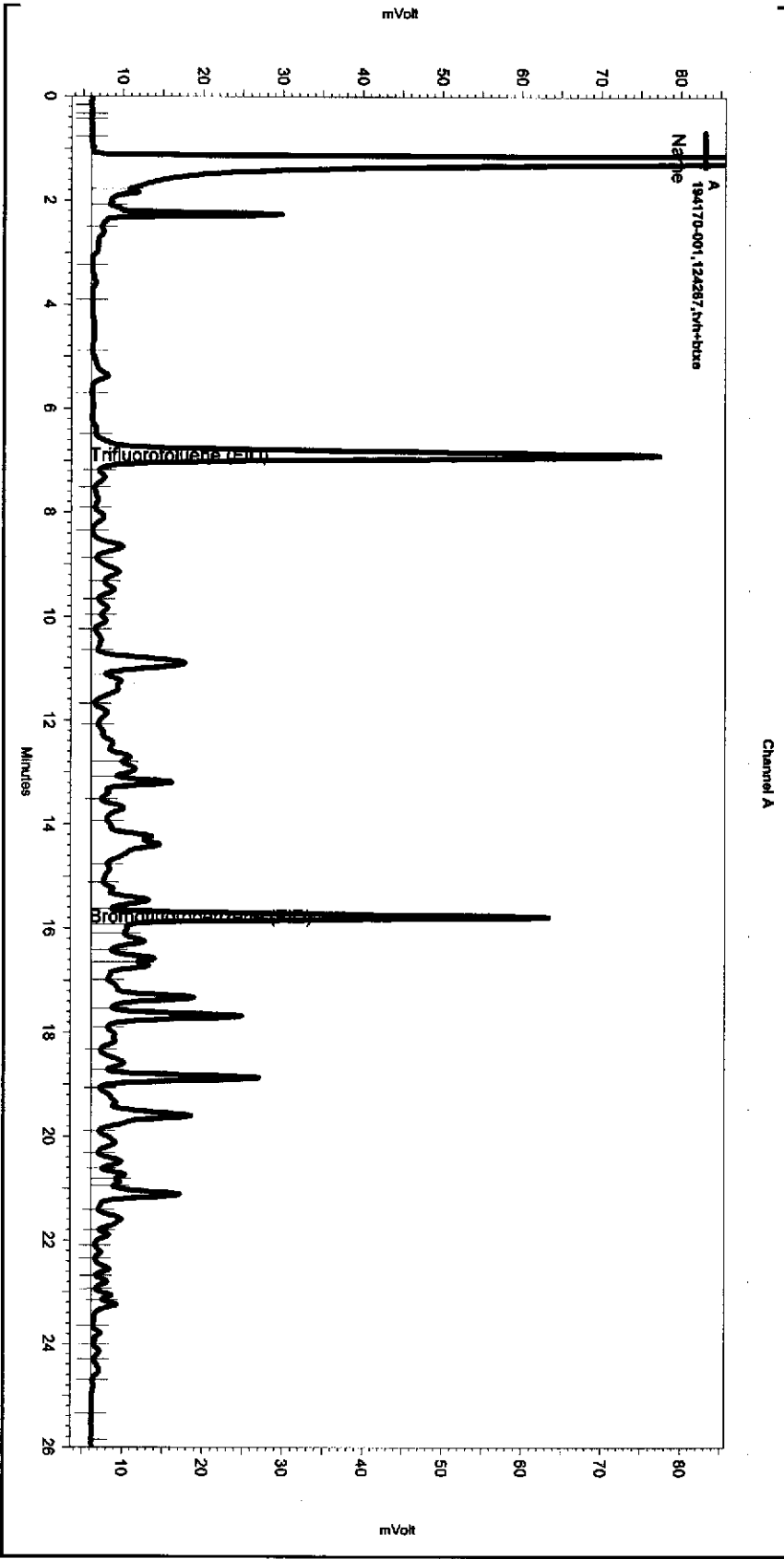
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	9.901	8.990	90	36-120	1	29

Surrogate	%REC	Limits
Trifluorotoluene (FID)	106	70-132
Bromofluorobenzene (FID)	123	66-138

RPD= Relative Percent Difference

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 Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\107_009
 Instrument: GC19 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC19\Method\tvhbx085.met

Software Version 3.1.7
 Run Date: 4/17/2007 5:40:20 PM
 Analysis Date: 4/18/2007 8:45:43 AM
 Sample Amount: 0.98 Multiplier: 0.98
 Vial & pH or Core ID: A



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
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Yes	Threshold	0	0	50

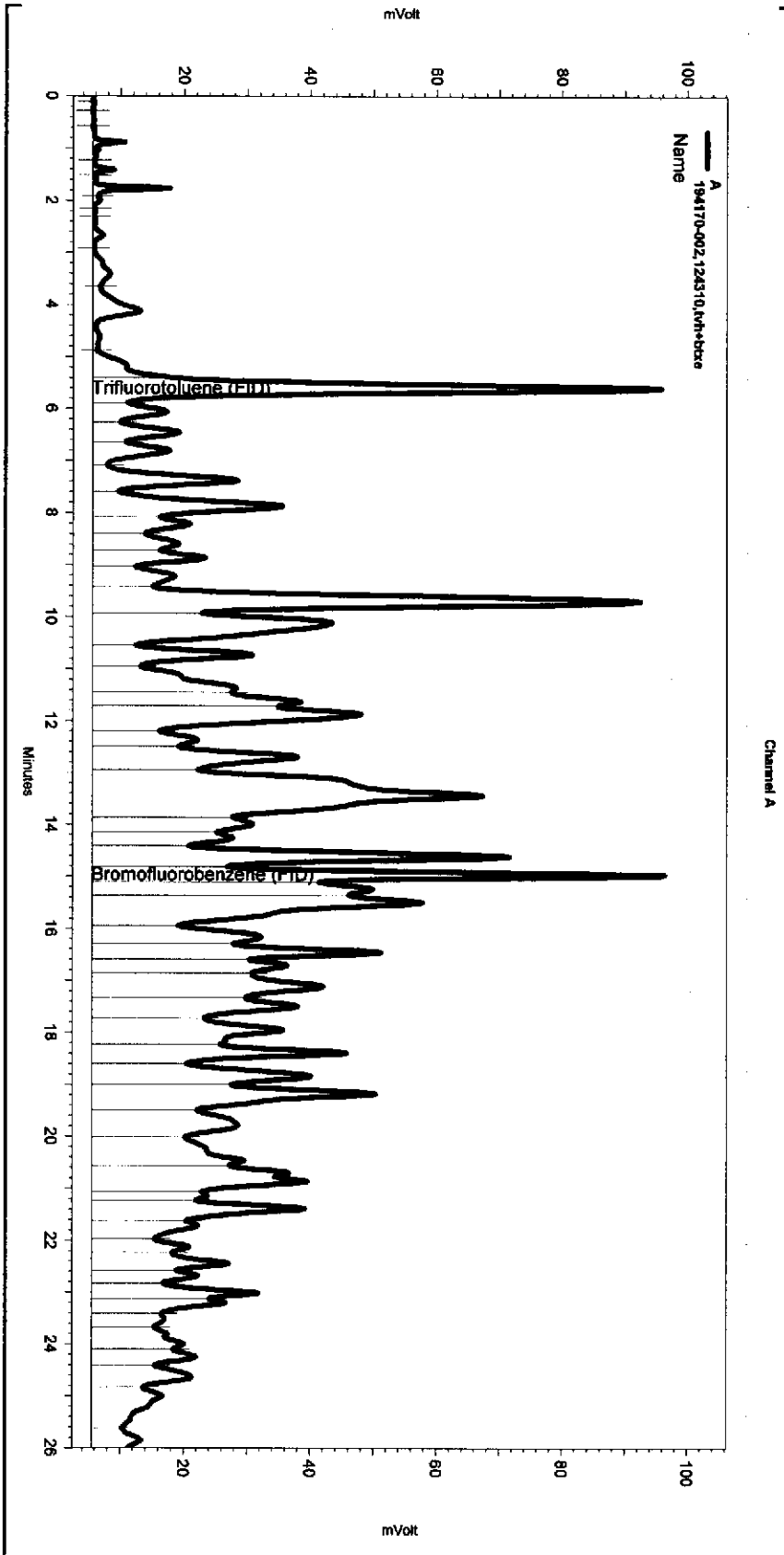
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\107_009

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Yes	Split Peak	15.932	0	0

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 Sample Name: 194170-002,124310,tvh+btbx
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\108_006
 Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\TVHBTX108.met

Software Version 3.1.7
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 Analysis Date: 4/19/2007 8:38:14 AM
 Sample Amount: 0.99 Multiplier: 0.99
 Vial & pH or Core ID: A



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No items selected for this section

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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

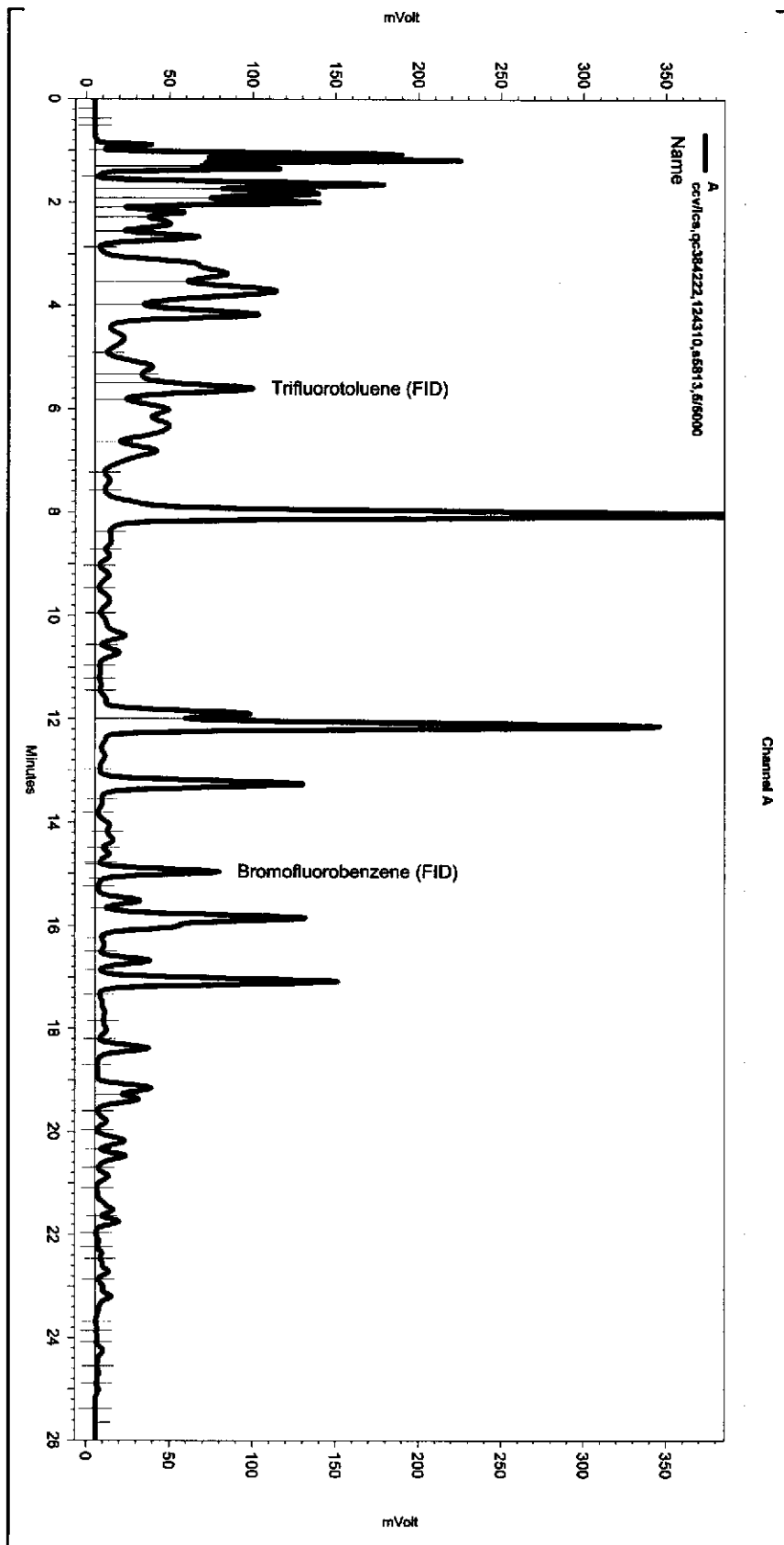
Manual Integration Fixes

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Yes	Lowest Point Horizontal Baseline	0	26.017	0
Yes	Split Peak	5.405	0	0

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 Sample Name: ccv\lca,qc384222,124310,s5813,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\108_003
 Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2, Analyst (lms2k3\tvh2)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbxe108.met

Software Version 3.1.7
 Run Date: 4/18/2007 1:15:02 PM
 Analysis Date: 4/19/2007 8:38:02 AM
 Sample Amount: 1 Multiplier: 1
 Vial & pH or Core ID: (Data Description)



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\108_003

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.498	0	0
Yes	Split Peak	14.823	0	0
Yes	Split Peak	15.095	0	0

Total Extractable Hydrocarbons

Lab #:	194170	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	SHAKER TABLE
Project#:	OL1081-00	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	124283
Units:	mg/Kg	Sampled:	04/16/07
Basis:	as received	Received:	04/16/07
Diln Fac:	1.000	Prepared:	04/18/07

Field ID: #1 Lab ID: 194170-001
Type: SAMPLE Analyzed: 04/19/07

Analyte	Result	RL
Diesel C10-C24	13 H L Y	1.0

Surrogate	%REC	Limits
Hexacosane	100	40-127

Field ID: #2 Lab ID: 194170-002
Type: SAMPLE Analyzed: 04/18/07

Analyte	Result	RL
Diesel C10-C24	39 L Y	1.0

Surrogate	%REC	Limits
Hexacosane	125	40-127

Type: BLANK Analyzed: 04/18/07
Lab ID: QC384103

Analyte	Result	RL
Diesel C10-C24	ND	1.0

Surrogate	%REC	Limits
Hexacosane	153 *	40-127

- *= Value outside of QC limits; see narrative
- H= Heavier hydrocarbons contributed to the quantitation
- L= Lighter hydrocarbons contributed to the quantitation
- Y= Sample exhibits chromatographic pattern which does not resemble standard
- ND= Not Detected
- RL= Reporting Limit

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	194170	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	SHAKER TABLE
Project#:	OL1081-00	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC384104	Batch#:	124283
Matrix:	Soil	Prepared:	04/18/07
Units:	mg/Kg	Analyzed:	04/18/07
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.96	52.46	105	58-127

Surrogate	%REC	Limits
Hexacosane	119	40-127

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	194170	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	SHAKER TABLE
Project#:	OL1081-00	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	124283
MSS Lab ID:	194119-017	Sampled:	04/12/07
Matrix:	Soil	Received:	04/12/07
Units:	mg/Kg	Prepared:	04/18/07
Basis:	as received	Analyzed:	04/18/07
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3630C
 Lab ID: QC384105

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	15.72	49.92	56.39	81	29-147

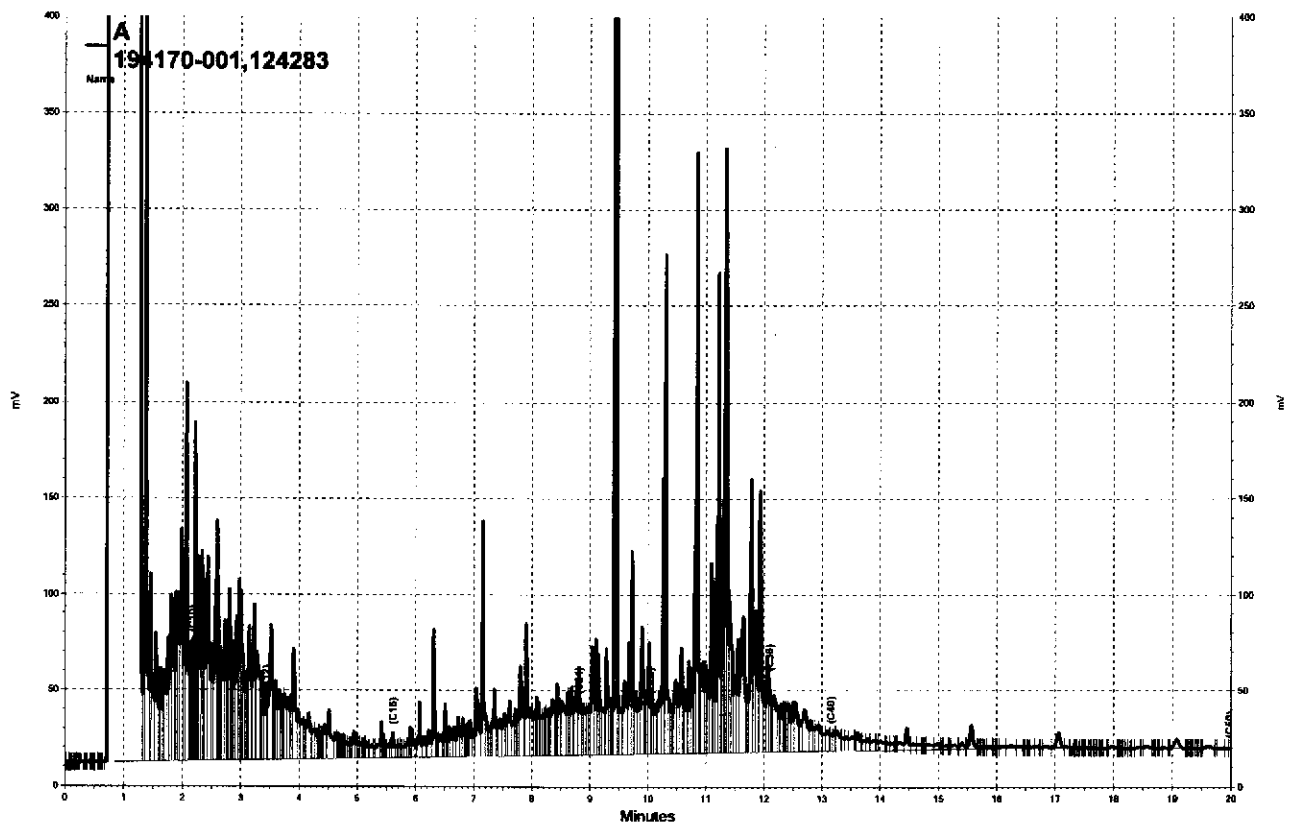
Surrogate	%REC	Limits
Hexacosane	104	40-127

Type: MSD Cleanup Method: EPA 3630C
 Lab ID: QC384106

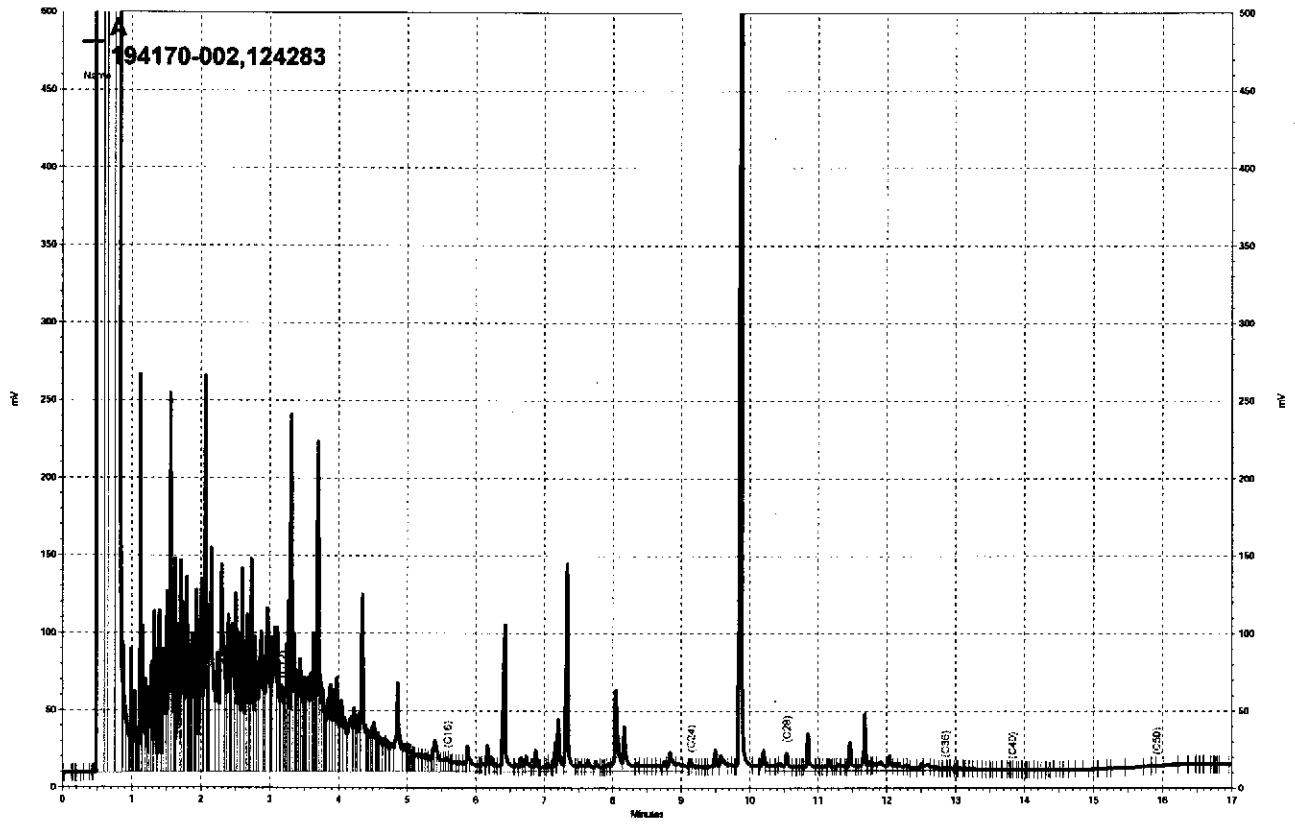
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	49.82	50.98	71	29-147	10	46

Surrogate	%REC	Limits
Hexacosane	94	40-127

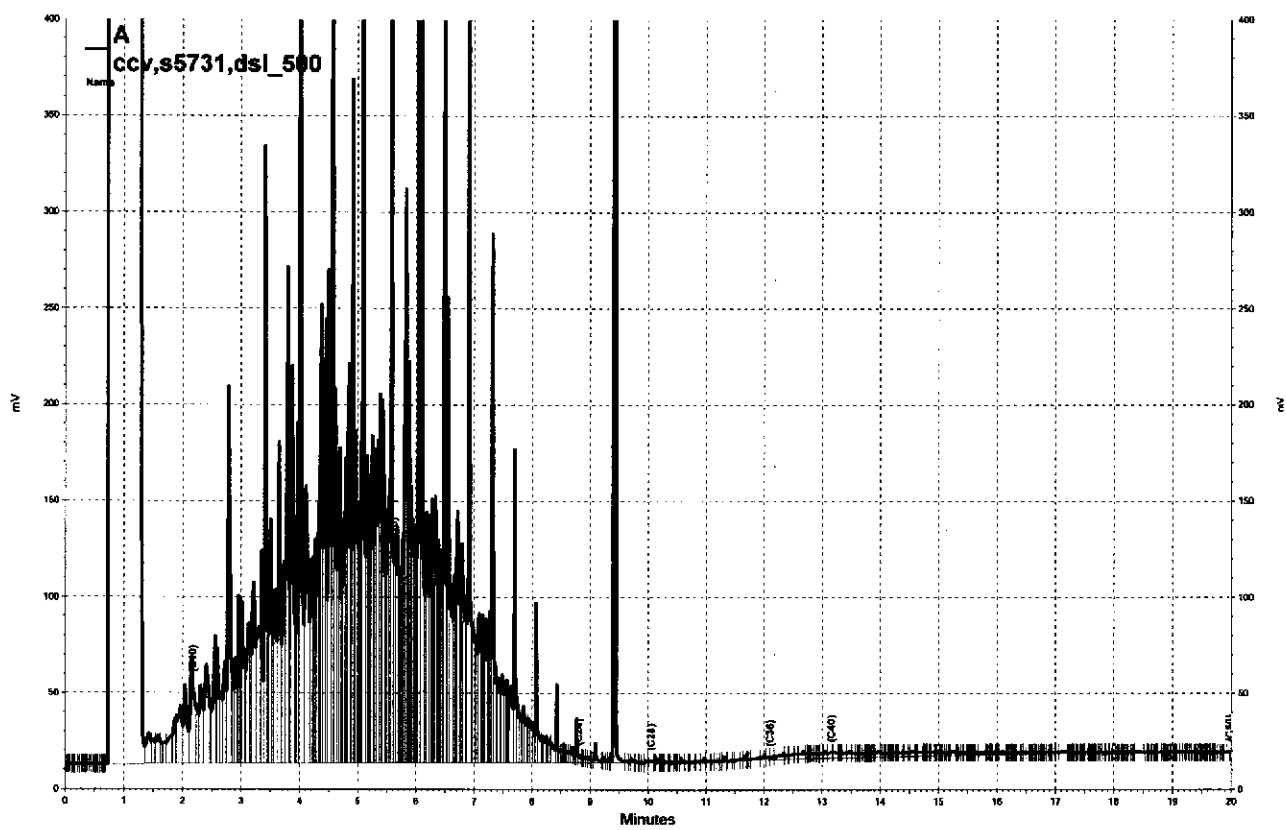
RPD= Relative Percent Difference



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Purgeable Organics by GC/MS

Lab #:	194170	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	EPA 5030B
Project#:	OL1081-00	Analysis:	EPA 8260B
Field ID:	#1	Diln Fac:	0.9434
Lab ID:	194170-001	Batch#:	124239
Matrix:	Soil	Sampled:	04/16/07
Units:	ug/Kg	Received:	04/16/07
Basis:	as received	Analyzed:	04/17/07

Analyte	Result	RL
Freon 12	ND	9.4
Chloromethane	ND	9.4
Vinyl Chloride	ND	9.4
Bromomethane	ND	9.4
Chloroethane	ND	9.4
Trichlorofluoromethane	ND	4.7
Acetone	54	24
Freon 113	ND	4.7
1,1-Dichloroethene	ND	4.7
Methylene Chloride	ND	19
Carbon Disulfide	ND	4.7
MTBE	ND	4.7
trans-1,2-Dichloroethene	ND	4.7
Vinyl Acetate	ND	47
1,1-Dichloroethane	ND	4.7
2-Butanone	16	9.4
cis-1,2-Dichloroethene	ND	4.7
2,2-Dichloropropane	ND	4.7
Chloroform	ND	4.7
Bromochloromethane	ND	4.7
1,1,1-Trichloroethane	ND	4.7
1,1-Dichloropropene	ND	4.7
Carbon Tetrachloride	ND	4.7
1,2-Dichloroethane	ND	4.7
Benzene	5.2	4.7
Trichloroethene	ND	4.7
1,2-Dichloropropane	ND	4.7
Bromodichloromethane	ND	4.7
Dibromomethane	ND	4.7
4-Methyl-2-Pentanone	ND	9.4
cis-1,3-Dichloropropene	ND	4.7
Toluene	ND	4.7
trans-1,3-Dichloropropene	ND	4.7
1,1,2-Trichloroethane	ND	4.7
2-Hexanone	ND	9.4
1,3-Dichloropropane	ND	4.7
Tetrachloroethene	ND	4.7

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	194170	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	EPA 5030B
Project#:	OL1081-00	Analysis:	EPA 8260B
Field ID:	#1	Diln Fac:	0.9434
Lab ID:	194170-001	Batch#:	124239
Matrix:	Soil	Sampled:	04/16/07
Units:	ug/Kg	Received:	04/16/07
Basis:	as received	Analyzed:	04/17/07

Analyte	Result	RL
Dibromochloromethane	ND	4.7
1,2-Dibromoethane	ND	4.7
Chlorobenzene	ND	4.7
1,1,1,2-Tetrachloroethane	ND	4.7
Ethylbenzene	ND	4.7
m,p-Xylenes	15	4.7
o-Xylene	6.2	4.7
Styrene	ND	4.7
Bromoform	ND	4.7
Isopropylbenzene	ND	4.7
1,1,2,2-Tetrachloroethane	ND	4.7
1,2,3-Trichloropropane	ND	4.7
Propylbenzene	ND	4.7
Bromobenzene	ND	4.7
1,3,5-Trimethylbenzene	8.1	4.7
2-Chlorotoluene	ND	4.7
4-Chlorotoluene	ND	4.7
tert-Butylbenzene	ND	4.7
1,2,4-Trimethylbenzene	22	4.7
sec-Butylbenzene	ND	4.7
para-Isopropyl Toluene	ND	4.7
1,3-Dichlorobenzene	ND	4.7
1,4-Dichlorobenzene	ND	4.7
n-Butylbenzene	ND	4.7
1,2-Dichlorobenzene	ND	4.7
1,2-Dibromo-3-Chloropropane	ND	4.7
1,2,4-Trichlorobenzene	ND	4.7
Hexachlorobutadiene	ND	4.7
Naphthalene	ND	4.7
1,2,3-Trichlorobenzene	ND	4.7

Surrogate	%REC	Limits
Dibromofluoromethane	107	78-126
1,2-Dichloroethane-d4	105	76-135
Toluene-d8	102	80-120
Bromofluorobenzene	105	80-126

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	194170	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	EPA 5030B
Project#:	OL1081-00	Analysis:	EPA 8260B
Field ID:	#2	Diln Fac:	0.9434
Lab ID:	194170-002	Batch#:	124239
Matrix:	Soil	Sampled:	04/16/07
Units:	ug/Kg	Received:	04/16/07
Basis:	as received	Analyzed:	04/17/07

Analyte	Result	RL
Freon 12	ND	9.4
Chloromethane	ND	9.4
Vinyl Chloride	ND	9.4
Bromomethane	ND	9.4
Chloroethane	ND	9.4
Trichlorofluoromethane	ND	4.7
Acetone	27	24
Freon 113	ND	4.7
1,1-Dichloroethene	ND	4.7
Methylene Chloride	ND	19
Carbon Disulfide	ND	4.7
MTBE	ND	4.7
trans-1,2-Dichloroethene	ND	4.7
Vinyl Acetate	ND	47
1,1-Dichloroethane	ND	4.7
2-Butanone	ND	9.4
cis-1,2-Dichloroethene	ND	4.7
2,2-Dichloropropane	ND	4.7
Chloroform	ND	4.7
Bromochloromethane	ND	4.7
1,1,1-Trichloroethane	ND	4.7
1,1-Dichloropropene	ND	4.7
Carbon Tetrachloride	ND	4.7
1,2-Dichloroethane	ND	4.7
Benzene	ND	4.7
Trichloroethene	ND	4.7
1,2-Dichloropropane	ND	4.7
Bromodichloromethane	ND	4.7
Dibromomethane	ND	4.7
4-Methyl-2-Pentanone	ND	9.4
cis-1,3-Dichloropropene	ND	4.7
Toluene	ND	4.7
trans-1,3-Dichloropropene	ND	4.7
1,1,2-Trichloroethane	ND	4.7
2-Hexanone	ND	9.4
1,3-Dichloropropane	ND	4.7
Tetrachloroethene	ND	4.7

ND = Not Detected
 RL = Reporting Limit

Purgeable Organics by GC/MS

Lab #:	194170	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	EPA 5030B
Project#:	OL1081-00	Analysis:	EPA 8260B
Field ID:	#2	Diln Fac:	0.9434
Lab ID:	194170-002	Batch#:	124239
Matrix:	Soil	Sampled:	04/16/07
Units:	ug/Kg	Received:	04/16/07
Basis:	as received	Analyzed:	04/17/07

Analyte	Result	RL
Dibromochloromethane	ND	4.7
1,2-Dibromoethane	ND	4.7
Chlorobenzene	ND	4.7
1,1,1,2-Tetrachloroethane	ND	4.7
Ethylbenzene	ND	4.7
m,p-Xylenes	ND	4.7
o-Xylene	ND	4.7
Styrene	ND	4.7
Bromoform	ND	4.7
Isopropylbenzene	7.4	4.7
1,1,2,2-Tetrachloroethane	ND	4.7
1,2,3-Trichloropropane	ND	4.7
Propylbenzene	9.2	4.7
Bromobenzene	ND	4.7
1,3,5-Trimethylbenzene	5.6	4.7
2-Chlorotoluene	ND	4.7
4-Chlorotoluene	ND	4.7
tert-Butylbenzene	ND	4.7
1,2,4-Trimethylbenzene	7.5	4.7
sec-Butylbenzene	7.8	4.7
para-Isopropyl Toluene	6.0	4.7
1,3-Dichlorobenzene	ND	4.7
1,4-Dichlorobenzene	ND	4.7
n-Butylbenzene	5.1	4.7
1,2-Dichlorobenzene	ND	4.7
1,2-Dibromo-3-Chloropropane	ND	4.7
1,2,4-Trichlorobenzene	ND	4.7
Hexachlorobutadiene	ND	4.7
Naphthalene	14	4.7
1,2,3-Trichlorobenzene	ND	4.7

Surrogate	%REC	Limits
Dibromofluoromethane	108	78-126
1,2-Dichloroethane-d4	98	76-135
Toluene-d8	98	80-120
Bromofluorobenzene	119	80-126

ND = Not Detected
 RL = Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	194170	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	EPA 5030B
Project#:	OL1081-00	Analysis:	EPA 8260B
Type:	LCS	Basis:	as received
Lab ID:	QC383939	Diln Fac:	1.000
Matrix:	Soil	Batch#:	124239
Units:	ug/Kg	Analyzed:	04/17/07

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	26.27	105	76-132
Benzene	25.00	26.28	105	80-120
Trichloroethene	25.00	26.94	108	80-120
Toluene	25.00	26.92	108	80-120
Chlorobenzene	25.00	26.96	108	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	100	78-126
1,2-Dichloroethane-d4	95	76-135
Toluene-d8	99	80-120
Bromofluorobenzene	100	80-126

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	194170	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	EPA 5030B
Project#:	OL1081-00	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC383940	Diln Fac:	1.000
Matrix:	Soil	Batch#:	124239
Units:	ug/Kg	Analyzed:	04/17/07

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	25
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	194170	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	EPA 5030B
Project#:	OL1081-00	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC383940	Diln Fac:	1.000
Matrix:	Soil	Batch#:	124239
Units:	ug/Kg	Analyzed:	04/17/07

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	105	78-126
1,2-Dichloroethane-d4	99	76-135
Toluene-d8	96	80-120
Bromofluorobenzene	102	80-126

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	194170	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	EPA 5030B
Project#:	OL1081-00	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Diln Fac:	0.9091
MSS Lab ID:	194169-005	Batch#:	124239
Matrix:	Soil	Sampled:	04/16/07
Units:	ug/Kg	Received:	04/16/07
Basis:	as received	Analyzed:	04/17/07

Type: MS Lab ID: QC383978

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.5202	45.45	50.24	111	72-138
Benzene	<0.1253	45.45	41.68	92	61-122
Trichloroethene	<0.2974	45.45	44.21	97	62-134
Toluene	<0.5024	45.45	42.81	94	57-124
Chlorobenzene	<0.4701	45.45	42.09	93	55-120

Surrogate	%REC	Limits
Dibromofluoromethane	92	78-126
1,2-Dichloroethane-d4	77	76-135
Toluene-d8	93	80-120
Bromofluorobenzene	98	80-126

Type: MSD Lab ID: QC383979

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	45.45	51.06	112	72-138	2	20
Benzene	45.45	42.56	94	61-122	2	20
Trichloroethene	45.45	44.51	98	62-134	1	20
Toluene	45.45	43.13	95	57-124	1	21
Chlorobenzene	45.45	41.79	92	55-120	1	22

Surrogate	%REC	Limits
Dibromofluoromethane	96	78-126
1,2-Dichloroethane-d4	80	76-135
Toluene-d8	96	80-120
Bromofluorobenzene	97	80-126

RPD= Relative Percent Difference

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8021B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC385194	Batch#:	124552
Matrix:	Water	Analyzed:	04/25/07
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Benzene	20.00	19.74	99	79-120
Toluene	20.00	19.62	98	80-120
Ethylbenzene	20.00	20.34	102	80-120
m,p-Xylenes	20.00	20.96	105	80-120
o-Xylene	20.00	21.14	106	80-120

Surrogate	%REC	Limits
Trifluorotoluene (PID)	97	63-140
Bromofluorobenzene (PID)	108	78-121

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report			
Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC385195	Batch#:	124552
Matrix:	Water	Analyzed:	04/25/07
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	1,947	97	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	109	72-136
Bromofluorobenzene (FID)	128	78-131

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report			
Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	124552
MSS Lab ID:	194373-001	Sampled:	04/25/07
Matrix:	Water	Received:	04/25/07
Units:	ug/L	Analyzed:	04/25/07
Diln Fac:	1.000		

Type: MS Lab ID: QC385196

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	66.31	2,000	1,926	93	79-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	72-136
Bromofluorobenzene (FID)	122	78-131

Type: MSD Lab ID: QC385197

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,892	91	79-120	2	20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	101	72-136
Bromofluorobenzene (FID)	120	78-131

RPD= Relative Percent Difference

Curtis & Tompkins Laboratories Analytical Report

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD		
Matrix:	Soil	Sampled:	04/25/07
Basis:	as received	Received:	04/25/07
Batch#:	124590		

Field ID:	RM-S1	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	04/27/07
Lab ID:	194375-006		

Analyte	Result	RL	Units	Analysis
Gasoline C7-C12	14 H Y	0.96	mg/Kg	EPA 8015B
Benzene	ND	4.8	ug/Kg	EPA 8021B
Toluene	ND	4.8	ug/Kg	EPA 8021B
Ethylbenzene	ND	4.8	ug/Kg	EPA 8021B
m,p-Xylenes	ND	4.8	ug/Kg	EPA 8021B
o-Xylene	69	4.8	ug/Kg	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	126	70-132	EPA 8015B
Bromofluorobenzene (FID)	200 *	66-138	EPA 8015B
Trifluorotoluene (PID)	110	63-142	EPA 8021B
Bromofluorobenzene (PID)	154 *	70-129	EPA 8021B

Field ID:	RM-S2	Diln Fac:	100.0
Type:	SAMPLE	Analyzed:	04/26/07
Lab ID:	194375-007		

Analyte	Result	RL	Units	Analysis
Gasoline C7-C12	4,400 Y	100	mg/Kg	EPA 8015B
Benzene	ND	500	ug/Kg	EPA 8021B
Toluene	ND	500	ug/Kg	EPA 8021B
Ethylbenzene	ND	500	ug/Kg	EPA 8021B
m,p-Xylenes	ND	500	ug/Kg	EPA 8021B
o-Xylene	23,000	500	ug/Kg	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	128	70-132	EPA 8015B
Bromofluorobenzene (FID)	355 *	>LR b 66-138	EPA 8015B
Trifluorotoluene (PID)	103	63-142	EPA 8021B
Bromofluorobenzene (PID)	174 *	70-129	EPA 8021B

*= Value outside of QC limits; see narrative
 C= Presence confirmed, but RPD between columns exceeds 40%
 H= Heavier hydrocarbons contributed to the quantitation
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 b= See narrative
 ND= Not Detected
 RL= Reporting Limit
 LR= Response exceeds instrument's linear range

Curtis & Tompkins Laboratories Analytical Report

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD		
Matrix:	Soil	Sampled:	04/25/07
Basis:	as received	Received:	04/25/07
Batch#:	124590		

Field ID: RM-S3 Diln Fac: 1.000
 Type: SAMPLE Analyzed: 04/27/07
 Lab ID: 194375-008

Analyte	Result	RL	Units	Analysis
Gasoline C7-C12	4.4 Y	1.0	mg/Kg	EPA 8015B
Benzene	ND	5.1	ug/Kg	EPA 8021B
Toluene	ND	5.1	ug/Kg	EPA 8021B
Ethylbenzene	ND	5.1	ug/Kg	EPA 8021B
m,p-Xylenes	ND	5.1	ug/Kg	EPA 8021B
o-Xylene	28	5.1	ug/Kg	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	117	70-132	EPA 8015B
Bromofluorobenzene (FID)	141 *	66-138	EPA 8015B
Trifluorotoluene (PID)	102	63-142	EPA 8021B
Bromofluorobenzene (PID)	128	70-129	EPA 8021B

Field ID: RM-N1 Diln Fac: 25.00
 Type: SAMPLE Analyzed: 04/26/07
 Lab ID: 194375-009

Analyte	Result	RL	Units	Analysis
Gasoline C7-C12	190 H Y	25	mg/Kg	EPA 8015B
Benzene	ND	130	ug/Kg	EPA 8021B
Toluene	ND	130	ug/Kg	EPA 8021B
Ethylbenzene	1,700 C	130	ug/Kg	EPA 8021B
m,p-Xylenes	ND	130	ug/Kg	EPA 8021B
o-Xylene	ND	130	ug/Kg	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	101	70-132	EPA 8015B
Bromofluorobenzene (FID)	142 *	66-138	EPA 8015B
Trifluorotoluene (PID)	84	63-142	EPA 8021B
Bromofluorobenzene (PID)	126	70-129	EPA 8021B

*= Value outside of QC limits; see narrative
 C= Presence confirmed, but RPD between columns exceeds 40%
 H= Heavier hydrocarbons contributed to the quantitation
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 b= See narrative
 ND= Not Detected
 RL= Reporting Limit
 LR= Response exceeds instrument's linear range

Curtis & Tompkins Laboratories Analytical Report

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD		
Matrix:	Soil	Sampled:	04/25/07
Basis:	as received	Received:	04/25/07
Batch#:	124590		

Field ID: RM-N2 Diln Fac: 1.000
 Type: SAMPLE Analyzed: 04/27/07
 Lab ID: 194375-010

Analyte	Result	RL	Units	Analysis
Gasoline C7-C12	6.4 H Y	1.0	mg/Kg	EPA 8015B
Benzene	11	5.2	ug/Kg	EPA 8021B
Toluene	ND	5.2	ug/Kg	EPA 8021B
Ethylbenzene	ND	5.2	ug/Kg	EPA 8021B
m,p-Xylenes	9.4 C	5.2	ug/Kg	EPA 8021B
o-Xylene	36 C	5.2	ug/Kg	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	119	70-132	EPA 8015B
Bromofluorobenzene (FID)	163 *	66-138	EPA 8015B
Trifluorotoluene (PID)	111	63-142	EPA 8021B
Bromofluorobenzene (PID)	146 *	70-129	EPA 8021B

Field ID: RM-N3 Diln Fac: 1.000
 Type: SAMPLE Analyzed: 04/27/07
 Lab ID: 194375-011

Analyte	Result	RL	Units	Analysis
Gasoline C7-C12	ND	1.0	mg/Kg	EPA 8015B
Benzene	ND	5.0	ug/Kg	EPA 8021B
Toluene	ND	5.0	ug/Kg	EPA 8021B
Ethylbenzene	ND	5.0	ug/Kg	EPA 8021B
m,p-Xylenes	ND	5.0	ug/Kg	EPA 8021B
o-Xylene	6.1 C	5.0	ug/Kg	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	104	70-132	EPA 8015B
Bromofluorobenzene (FID)	118	66-138	EPA 8015B
Trifluorotoluene (PID)	97	63-142	EPA 8021B
Bromofluorobenzene (PID)	115	70-129	EPA 8021B

*= Value outside of QC limits; see narrative
 C= Presence confirmed, but RPD between columns exceeds 40%
 H= Heavier hydrocarbons contributed to the quantitation
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 b= See narrative
 ND= Not Detected
 RL= Reporting Limit
 LR= Response exceeds instrument's linear range

Curtis & Tompkins Laboratories Analytical Report

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD		
Matrix:	Soil	Sampled:	04/25/07
Basis:	as received	Received:	04/25/07
Batch#:	124590		

Field ID:	RM-E1	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	04/27/07
Lab ID:	194375-012		

Analyte	Result	RL	Units	Analysis
Gasoline C7-C12	ND	0.95	mg/Kg	EPA 8015B
Benzene	ND	4.8	ug/Kg	EPA 8021B
Toluene	ND	4.8	ug/Kg	EPA 8021B
Ethylbenzene	ND	4.8	ug/Kg	EPA 8021B
m,p-Xylenes	ND	4.8	ug/Kg	EPA 8021B
o-Xylene	ND	4.8	ug/Kg	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	100	70-132	EPA 8015B
Bromofluorobenzene (FID)	110	66-138	EPA 8015B
Trifluorotoluene (PID)	97	63-142	EPA 8021B
Bromofluorobenzene (PID)	109	70-129	EPA 8021B

Field ID:	RM-W1	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	04/27/07
Lab ID:	194375-013		

Analyte	Result	RL	Units	Analysis
Gasoline C7-C12	3.6 H Y	1.0	mg/Kg	EPA 8015B
Benzene	ND	5.0	ug/Kg	EPA 8021B
Toluene	ND	5.0	ug/Kg	EPA 8021B
Ethylbenzene	ND	5.0	ug/Kg	EPA 8021B
m,p-Xylenes	ND	5.0	ug/Kg	EPA 8021B
o-Xylene	15	5.0	ug/Kg	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	127	70-132	EPA 8015B
Bromofluorobenzene (FID)	157 *	66-138	EPA 8015B
Trifluorotoluene (PID)	115	63-142	EPA 8021B
Bromofluorobenzene (PID)	140 *	70-129	EPA 8021B

*= Value outside of QC limits; see narrative
 C= Presence confirmed, but RPD between columns exceeds 40%
 H= Heavier hydrocarbons contributed to the quantitation
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 b= See narrative
 ND= Not Detected
 RL= Reporting Limit
 LR= Response exceeds instrument's linear range

Curtis & Tompkins Laboratories Analytical Report

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD		
Matrix:	Soil	Sampled:	04/25/07
Basis:	as received	Received:	04/25/07
Batch#:	124590		

Type: BLANK
 Lab ID: QC385338
 Diln Fac: 1.000
 Analyzed: 04/26/07

Analyte	Result	RL	Units	Analysis
Gasoline C7-C12	ND	1.0	mg/Kg	EPA 8015B
Benzene	ND	5.0	ug/Kg	EPA 8021B
Toluene	ND	5.0	ug/Kg	EPA 8021B
Ethylbenzene	ND	5.0	ug/Kg	EPA 8021B
m,p-Xylenes	ND	5.0	ug/Kg	EPA 8021B
o-Xylene	ND	5.0	ug/Kg	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	98	70-132	EPA 8015B
Bromofluorobenzene (FID)	105	66-138	EPA 8015B
Trifluorotoluene (PID)	89	63-142	EPA 8021B
Bromofluorobenzene (PID)	100	70-129	EPA 8021B

*= Value outside of QC limits; see narrative
 C= Presence confirmed, but RPD between columns exceeds 40%
 H= Heavier hydrocarbons contributed to the quantitation
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 b= See narrative
 ND= Not Detected
 RL= Reporting Limit
 LR= Response exceeds instrument's linear range

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8021B
Type:	LCS	Basis:	as received
Lab ID:	QC385339	Diln Fac:	1.000
Matrix:	Soil	Batch#:	124590
Units:	ug/Kg	Analyzed:	04/26/07

Analyte	Spiked	Result	%REC	Limits
Benzene	100.0	98.58	99	80-120
Toluene	100.0	95.71	96	80-120
Ethylbenzene	100.0	100.6	101	80-120
m,p-Xylenes	100.0	100.5	101	80-120
o-Xylene	100.0	101.6	102	80-120

Surrogate	%REC	Limits
Trifluorotoluene (PID)	91	63-142
Bromofluorobenzene (PID)	97	70-129

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report			
Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8015B
Type:	LCS	Basis:	as received
Lab ID:	QC385340	Diln Fac:	1.000
Matrix:	Soil	Batch#:	124590
Units:	mg/Kg	Analyzed:	04/26/07

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	10.00	9.471	95	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	103	70-132
Bromofluorobenzene (FID)	111	66-138

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report			
Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8015B
Field ID:	RM-B3	Diln Fac:	1.000
MSS Lab ID:	194375-004	Batch#:	124590
Matrix:	Soil	Sampled:	04/25/07
Units:	mg/Kg	Received:	04/25/07
Basis:	as received	Analyzed:	04/26/07

Type: MS Lab ID: QC385341

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.7299	10.31	9.602	86	36-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	103	70-132
Bromofluorobenzene (FID)	121	66-138

Type: MSD Lab ID: QC385342

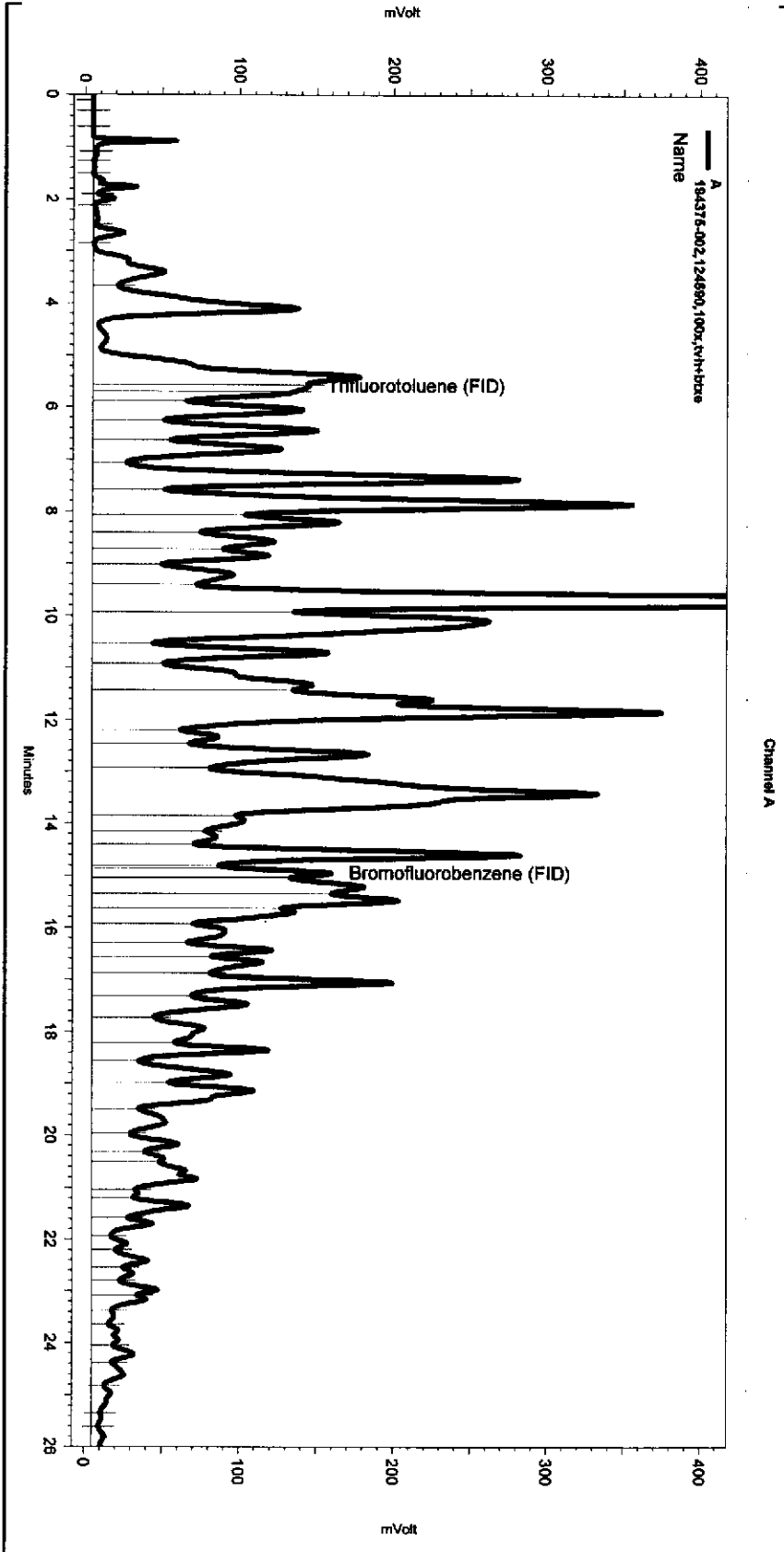
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.10	9.757	89	36-120	4	29

Surrogate	%REC	Limits
Trifluorotoluene (FID)	101	70-132
Bromofluorobenzene (FID)	118	66-138

RPD= Relative Percent Difference

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\116.seq
 Sample Name: 194375-002,124590,100x,tvh+btxe
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\116_010
 Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (hms2k3\tvh2)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\TVHBTXE106.met

Software Version 3.1.7
 Run Date: 4/26/2007 6:52:53 PM
 Analysis Date: 4/27/2007 10:13:12 AM
 Sample Amount: 1 Multiplier: 1
 Vial & pH or Core ID: A



< General Method Parameters >

No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

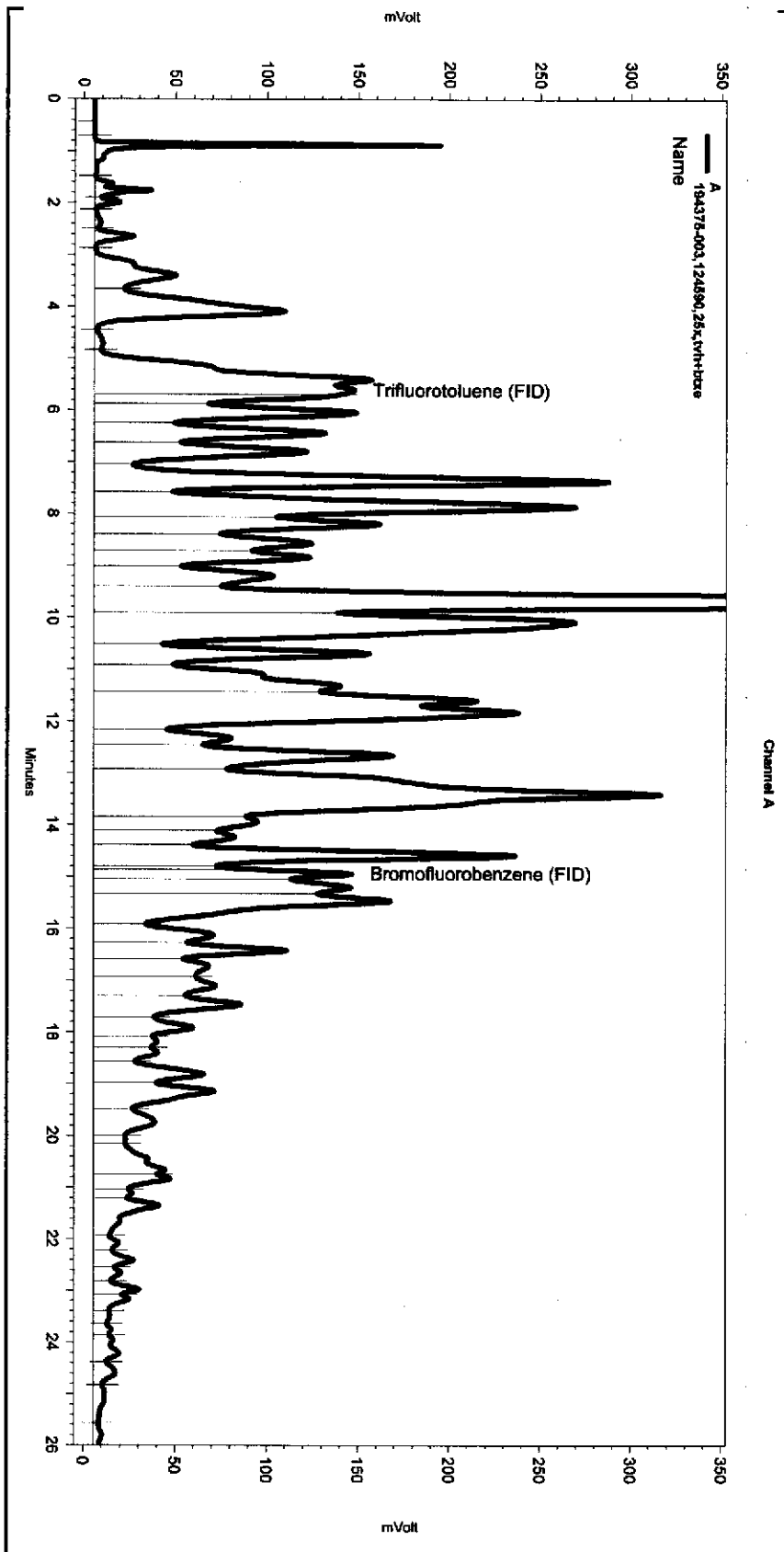
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\116_010

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseline	0	26.017	0
Yes	Split Peak	5.571	0	0
Yes	Split Peak	5.701	0	0
Yes	Split Peak	14.865	0	0
Yes	Split Peak	15.033	0	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\116.seq
 Sample Name: 194375-003,124590,25x,tvh+btbx
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\116_006
 Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst: (lms2k3\tvh2)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\TVHBTX106.met

Software Version 3.1.7
 Run Date: 4/26/2007 3:45:18 PM
 Analysis Date: 4/27/2007 10:03:04 AM
 Sample Amount: 1 Multiplier: 1
 Vial & pH or Core ID: A



---< General Method Parameters >---

No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

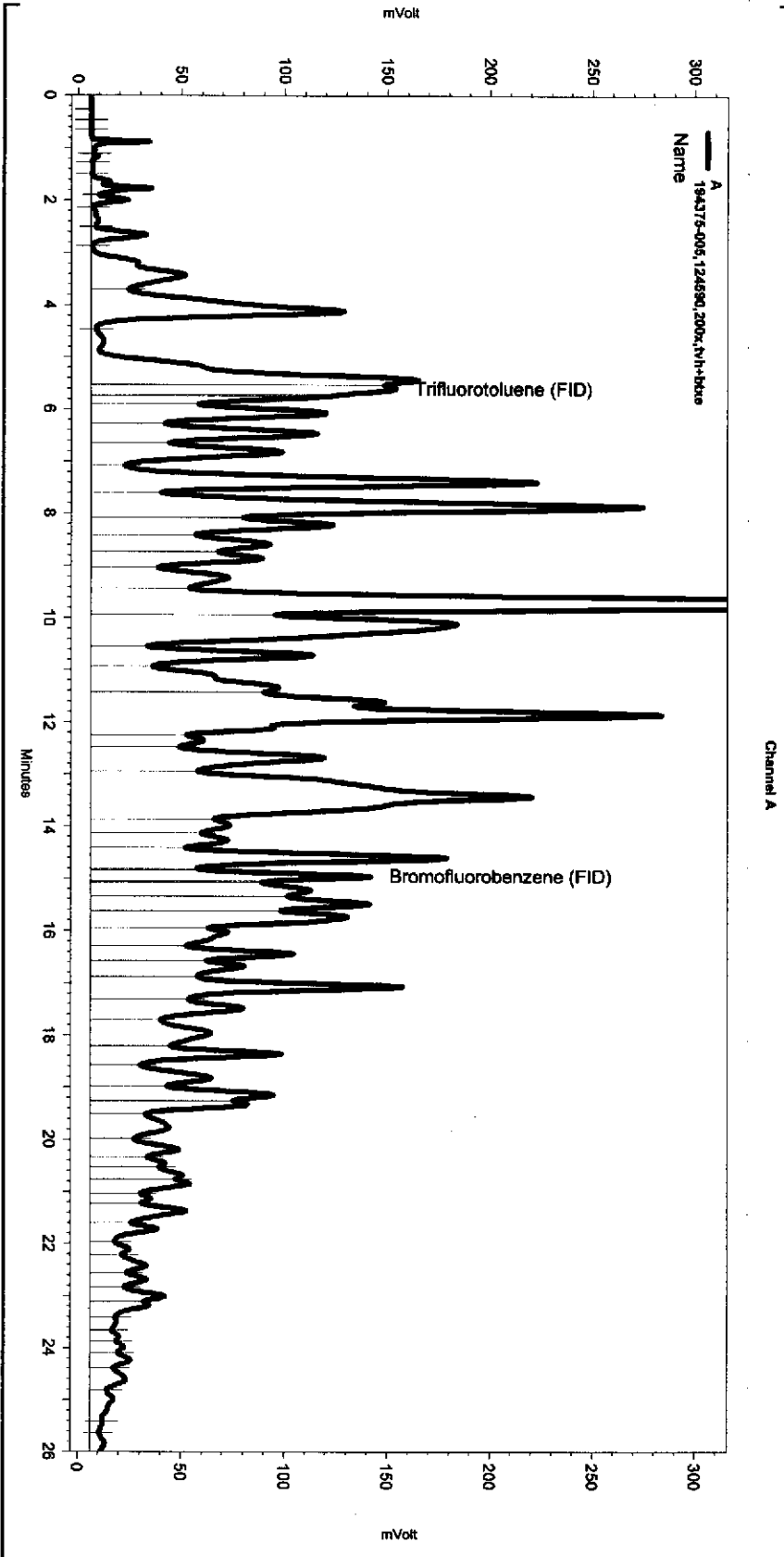
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\116_006

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseline	0	26.017	0
Yes	Split Peak	5.696	0	0
Yes	Split Peak	14.864	0	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\116.seq
 Sample Name: 194375-005,124590,200x,tvh+bbxe
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\116_032
 Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst: (lms2k3\tvh2)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\TVHBBXE106.met

Software Version 3.1.7
 Run Date: 4/27/2007 9:03:17 AM
 Analysis Date: 4/27/2007 10:14:44 AM
 Sample Amount: 1 Multiplier: 1
 Vial & pH or Core ID: A



< General Method Parameters >

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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

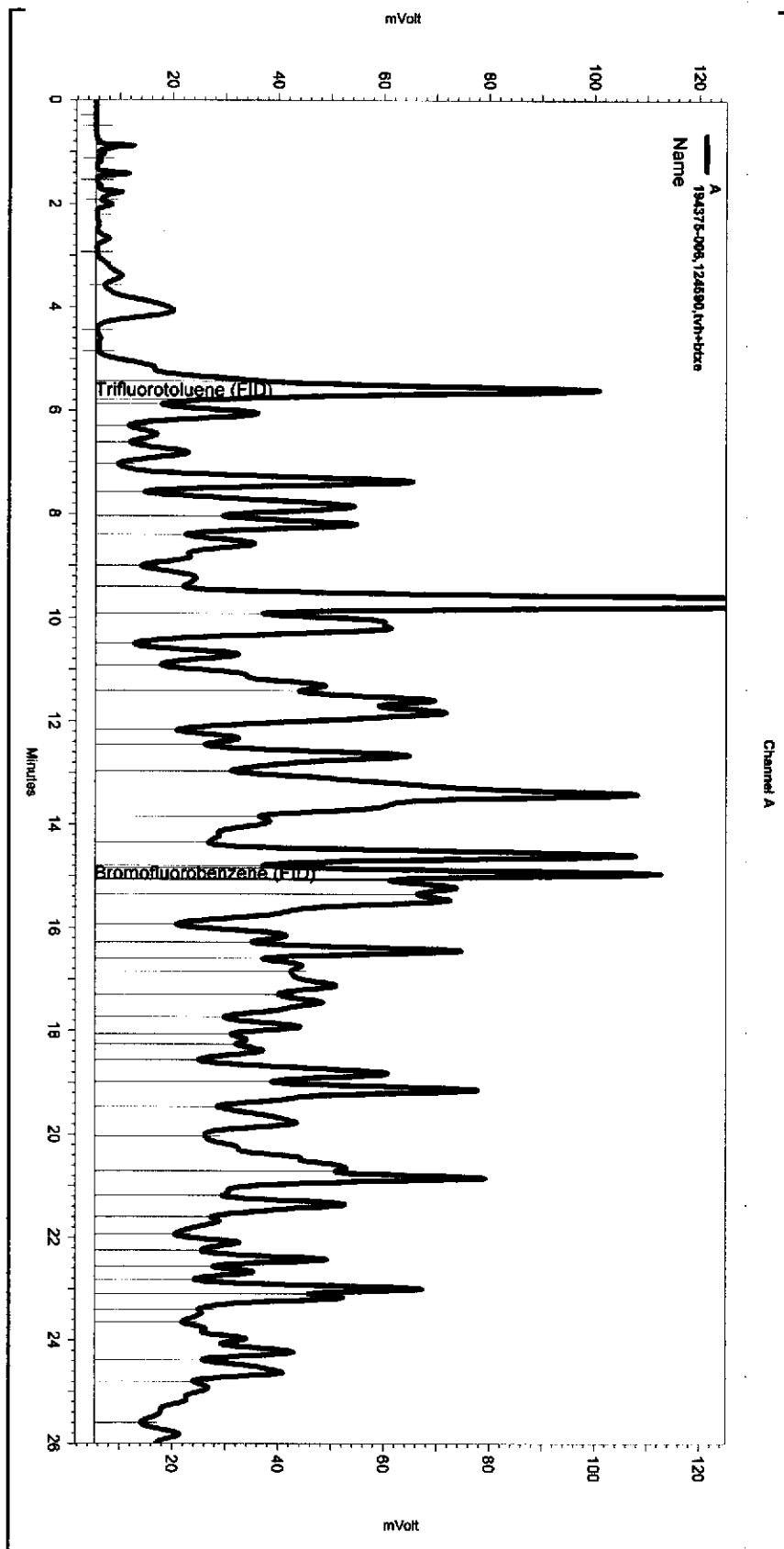
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\116_032

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseline	0	26.017	0
Yes	Split Peak	5.709	0	0
Yes	Split Peak	5.742	0	0
Yes	Split Peak	14.853	0	0
Yes	Split Peak	15.05	0	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\116.seq
 Sample Name: 194375-006,124590,tvh+btbx
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\116_020
 Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst: (lms2k3\tvh2)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\TVHBTX106.met

Software Version 3.1.7
 Run Date: 4/27/2007 12:47:50 AM
 Analysis Date: 4/27/2007 10:13:55 AM
 Sample Amount: 1.04 Multiplier: 1.04
 Vial & pH or Core ID: A



<< General Method Parameters >>

No items selected for this section

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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

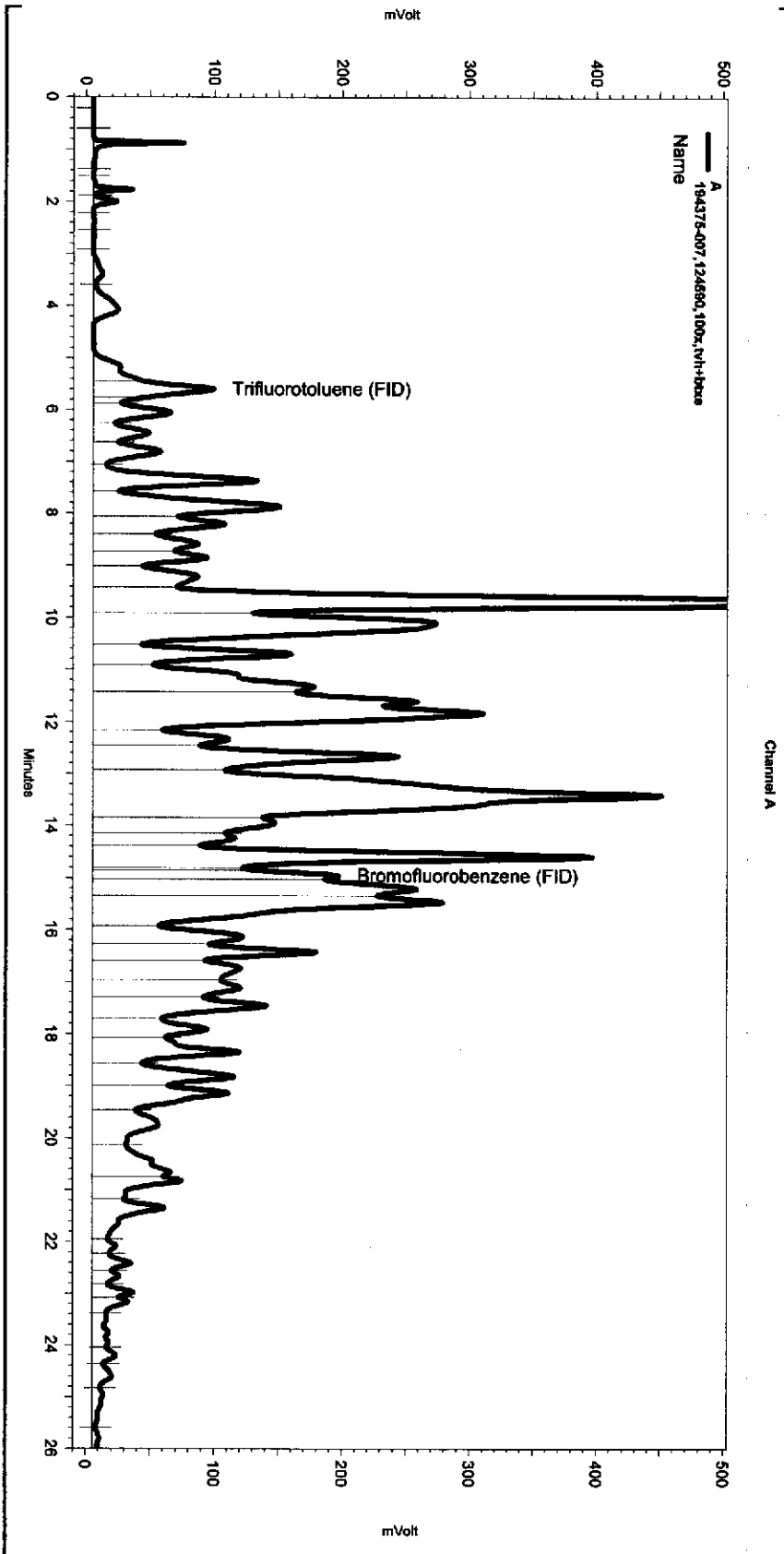
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\116_020

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseline	0	26.017	0
Yes	Split Peak	5.432	0	0
Yes	Split Peak	5.781	0	0
Yes	Split Peak	14.85	0	0
Yes	Split Peak	15.05	0	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\116.seq
 Sample Name: 194375-007,124590,100x,tvh+btbx
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\116_016
 Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\TVHBBX106.met

Software Version 3.1.7
 Run Date: 4/26/2007 10:25:53 PM
 Analysis Date: 4/27/2007 10:13:39 AM
 Sample Amount: 1 Multiplier: 1
 Vial & pH or Core ID: A



< General Method Parameters >

No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

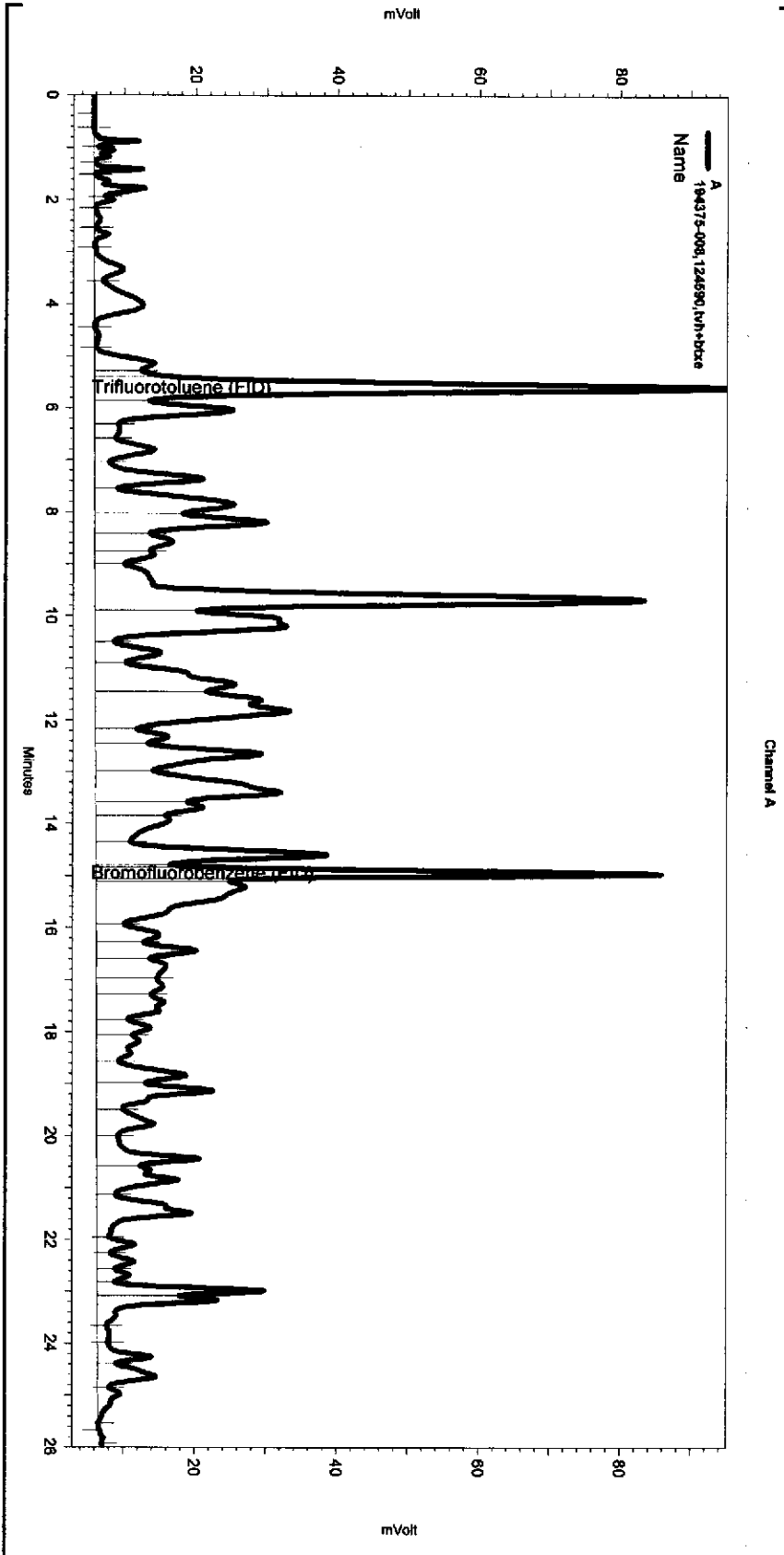
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\116_016

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Horizontal Baseline	4.434	26.017	0
Yes	Split Peak	5.453	0	0
Yes	Split Peak	5.761	0	0
Yes	Split Peak	14.864	0	0
Yes	Split Peak	15.034	0	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence116.seq
 Sample Name: 194375-008,124590,tvh+btxe
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\116_021
 Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe106.met

Software Version 3.1.7
 Run Date: 4/27/2007 1:23:22 AM
 Analysis Date: 4/27/2007 10:13:59 AM
 Sample Amount: 0.99 Multiplier: 0.99
 Vial & pH or Core ID: A



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No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

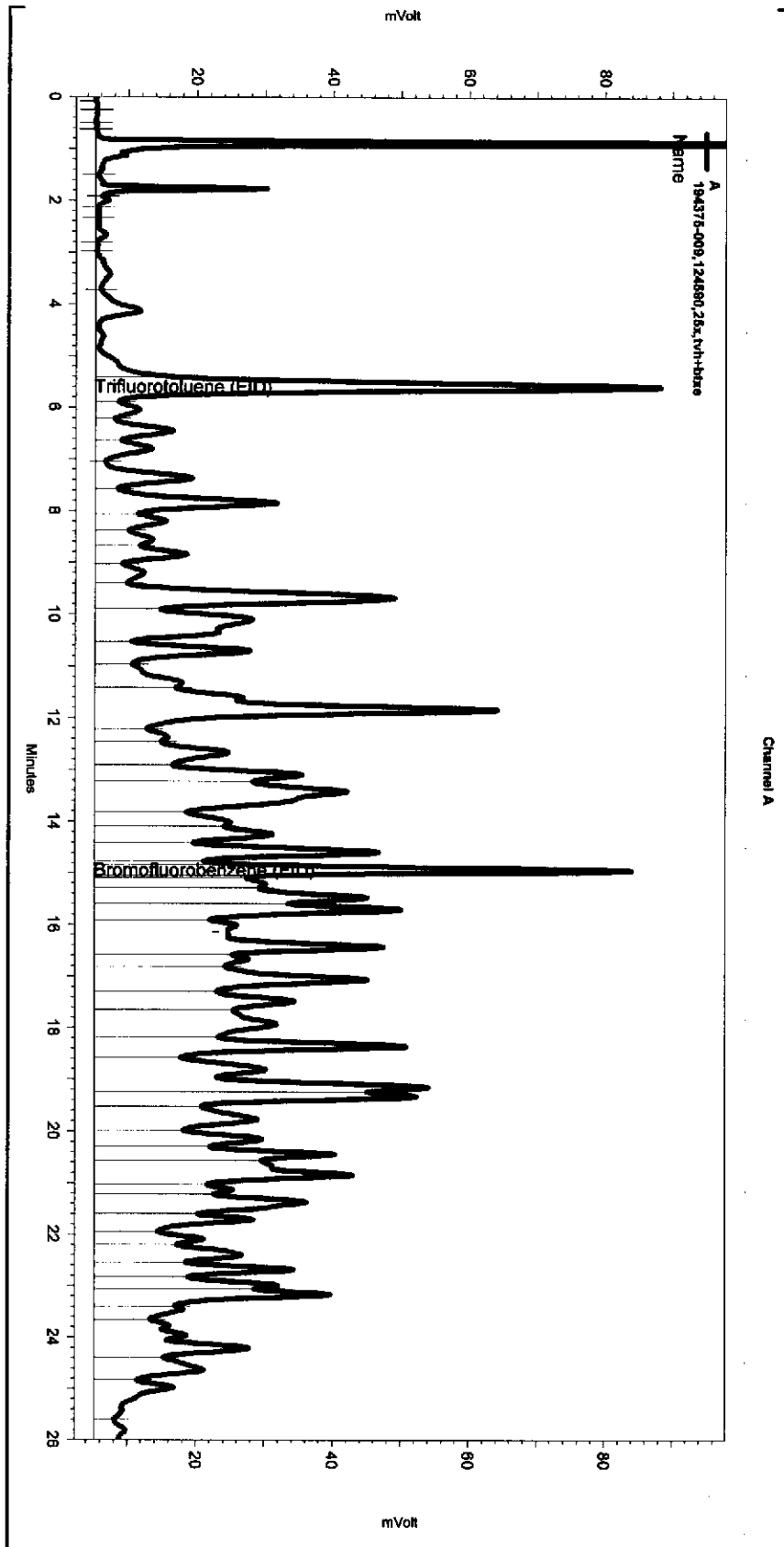
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\116_021

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.403	0	0
Yes	Split Peak	14.826	0	0
Yes	Split Peak	15.063	0	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\116.seq
 Sample Name: 194375-009,124580,25x,tvh+bbx
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\116_009
 Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2, Analyst (lms2k3\trh2)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\trhbbx106.met

Software Version 3.1.7
 Run Date: 4/26/2007 5:31:50 PM
 Analysis Date: 4/27/2007 10:13:07 AM
 Sample Amount: 1 Multiplier: 1
 Vial & pH or Core ID: A



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No items selected for this section

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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

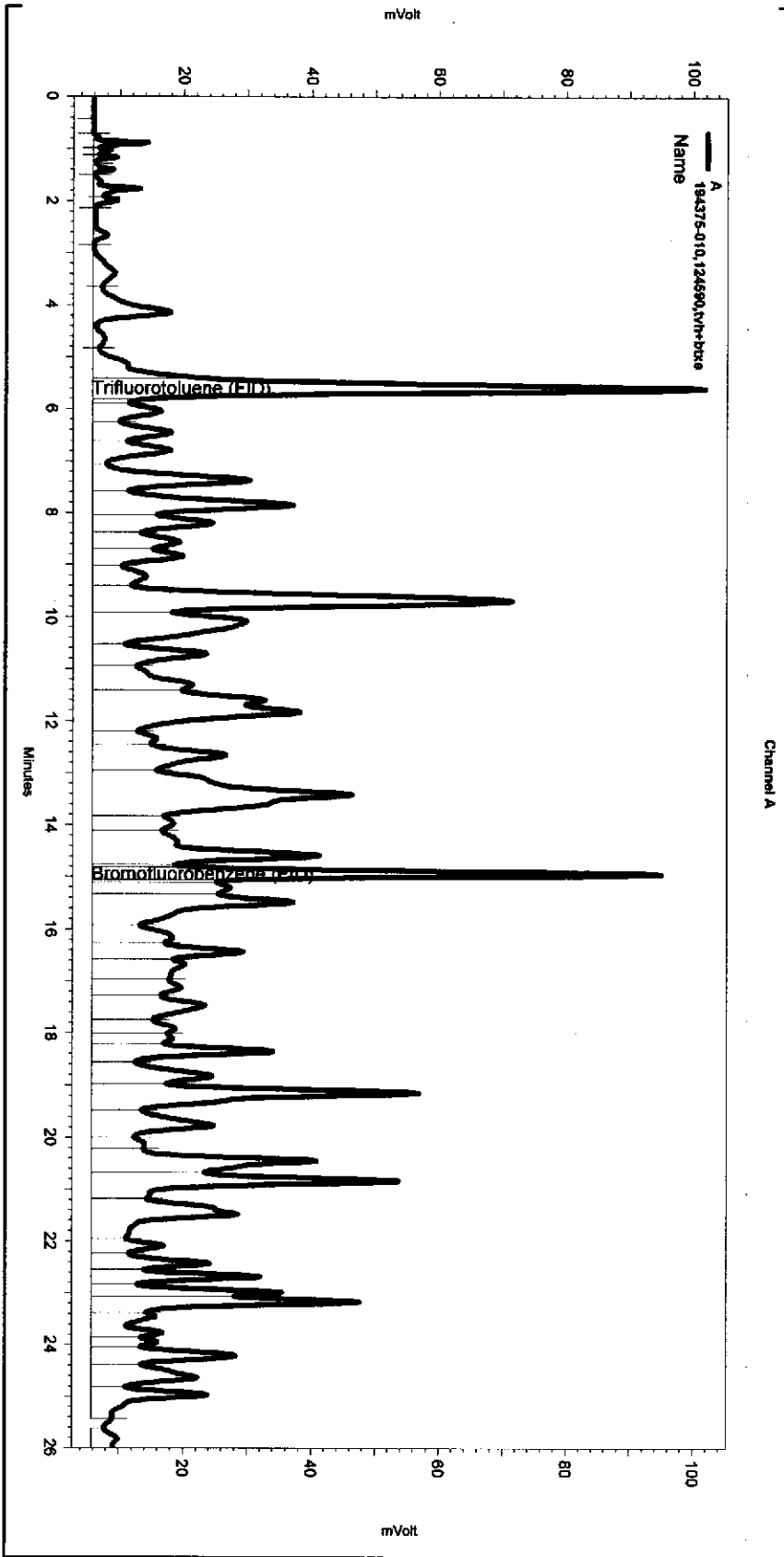
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\116_009

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseline	0	26.017	0
Yes	Split Peak	5.411	0	0
Yes	Split Peak	14.831	0	0
Yes	Split Peak	15.056	0	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\116.seq
 Sample Name: 194375-010,124590,tvh+btxe
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\116_022
 Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\TVHBTXE106.met

Software Version 3.1.7
 Run Date: 4/27/2007 1:58:50 AM
 Analysis Date: 4/27/2007 10:14:03 AM
 Sample Amount: 0.96 Multiplier: 0.96
 Vial & pH or Core ID: A



< General Method Parameters >

No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

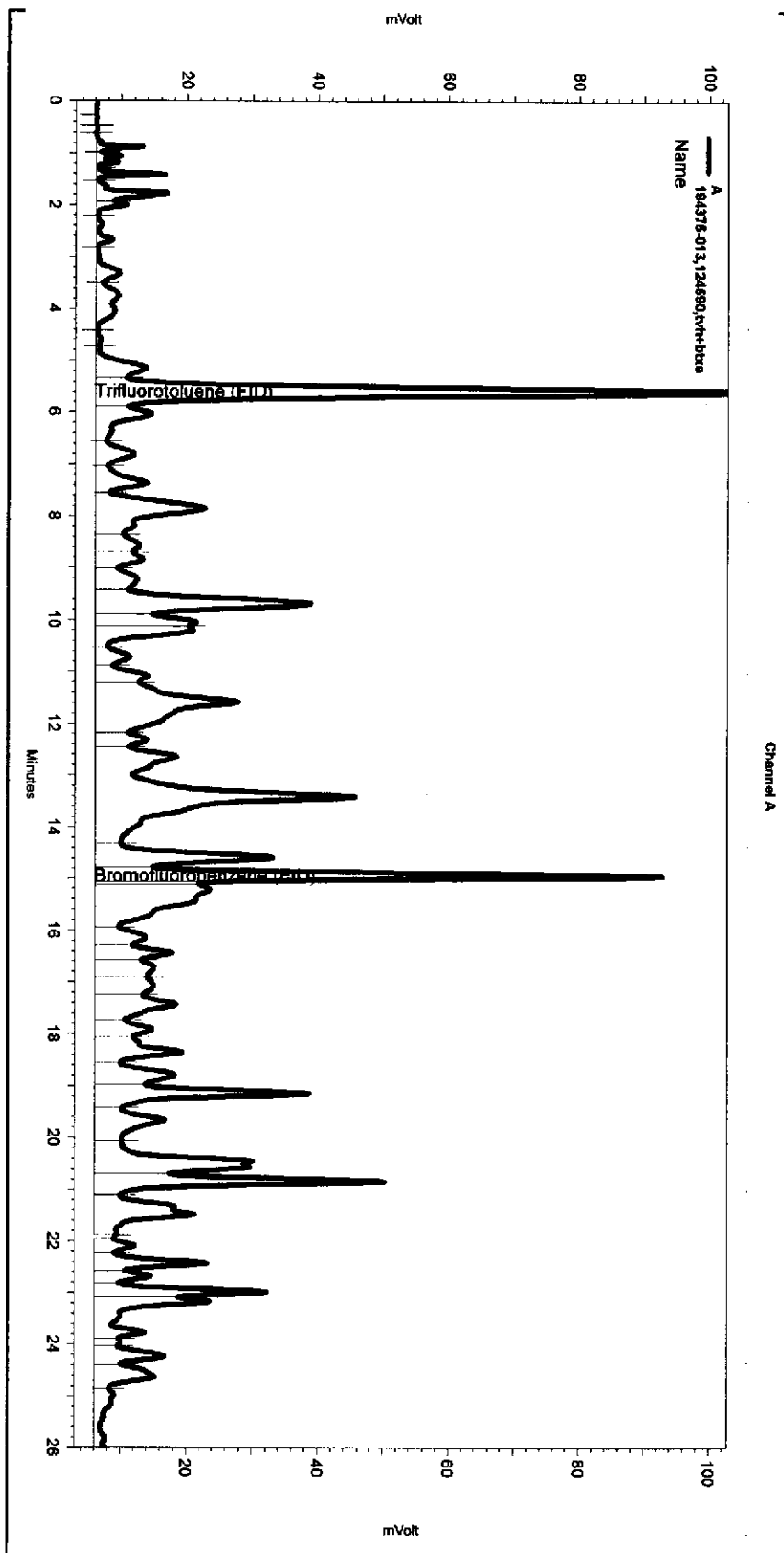
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\116_022

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Basell	0	26.017	0
Yes	Split Peak	5.416	0	0
Yes	Split Peak	5.811	0	0
Yes	Split Peak	14.815	0	0
Yes	Split Peak	15.062	0	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\116.seq
 Sample Name: 194375-013,124590,tvh+bbxe
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\116_025
 Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbbxe106.met

Software Version 3.1.7
 Run Date: 4/27/2007 3:45:11 AM
 Analysis Date: 4/27/2007 10:14:15 AM
 Sample Amount: 1 Multiplier: 1
 Vial & pH or Core ID: A



< General Method Parameters >

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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

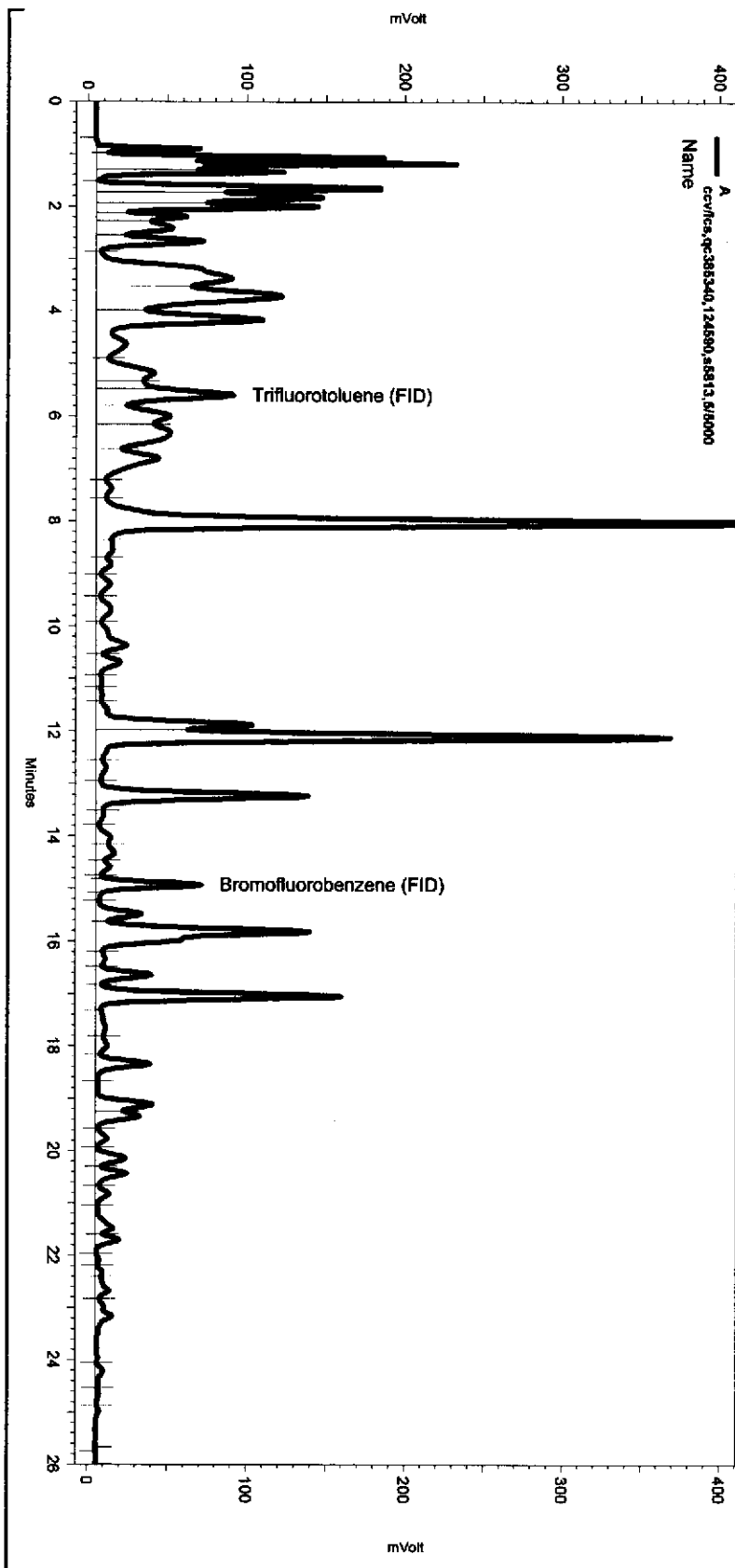
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\116_025

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseline	0	26.017	0
Yes	Split Peak	15.071	0	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\116.seq
 Sample Name: ccv/lcs,qc385340,124590,s5813,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\116_003
 Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst: (lms2k3\tvh2)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\lvhbtxe106.met

Software Version 3.1.7
 Run Date: 4/26/2007 11:31:32 AM
 Analysis Date: 4/27/2007 10:02:51 AM
 Sample Amount: 1 Multiplier: 1
 Vial & pH or Core ID: {Data Description}



Channel A

< General Method Parameters >

No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\116_003

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.478	0	0
Yes	Split Peak	14.811	0	0
Yes	Split Peak	15.088	0	0

Total Extractable Hydrocarbons

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	SHAKER TABLE
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	04/25/07
Units:	mg/Kg	Received:	04/25/07
Basis:	as received	Prepared:	04/26/07
Batch#:	124601		

Field ID:	RM-B1	Diln Fac:	5.000
Type:	SAMPLE	Analyzed:	04/30/07
Lab ID:	194375-002		

Analyte	Result	RL
Diesel C10-C24	800 L Y	5.0
Surrogate	%REC	Limits
Hexacosane	99	40-127

Field ID:	RM-B2	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	04/30/07
Lab ID:	194375-003		

Analyte	Result	RL
Diesel C10-C24	110 L Y	1.0
Surrogate	%REC	Limits
Hexacosane	95	40-127

Field ID:	RM-B3	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	04/30/07
Lab ID:	194375-004		

Analyte	Result	RL
Diesel C10-C24	1.2 L Y	1.0
Surrogate	%REC	Limits
Hexacosane	93	40-127

Field ID:	RM-B4	Diln Fac:	5.000
Type:	SAMPLE	Analyzed:	04/30/07
Lab ID:	194375-005		

Analyte	Result	RL
Diesel C10-C24	990 L Y	5.0
Surrogate	%REC	Limits
Hexacosane	102	40-127

H= Heavier hydrocarbons contributed to the quantitation
 L= Lighter hydrocarbons contributed to the quantitation
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 O= Diluted Out
 D= Not Detected
 RL= Reporting Limit

Total Extractable Hydrocarbons

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	SHAKER TABLE
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	04/25/07
Units:	mg/Kg	Received:	04/25/07
Basis:	as received	Prepared:	04/26/07
Batch#:	124601		

Field ID:	RM-S1	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	04/27/07
Lab ID:	194375-006		

Analyte	Result	RL
Diesel C10-C24	83 H L Y	1.0

Surrogate	%REC	Limits
Hexacosane	121	40-127

Field ID:	RM-S2	Diln Fac:	20.00
Type:	SAMPLE	Analyzed:	04/27/07
Lab ID:	194375-007		

Analyte	Result	RL
Diesel C10-C24	1,300 H L Y	20

Surrogate	%REC	Limits
Hexacosane	DO	40-127

Field ID:	RM-S3	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	04/30/07
Lab ID:	194375-008		

Analyte	Result	RL
Diesel C10-C24	12 H L Y	1.0

Surrogate	%REC	Limits
Hexacosane	97	40-127

Field ID:	RM-N1	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	04/30/07
Lab ID:	194375-009		

Analyte	Result	RL
Diesel C10-C24	61 H L Y	1.0

Surrogate	%REC	Limits
Hexacosane	96	40-127

H= Heavier hydrocarbons contributed to the quantitation
 L= Lighter hydrocarbons contributed to the quantitation
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 ND= Not Detected
 RL= Reporting Limit

Total Extractable Hydrocarbons

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	SHAKER TABLE
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	04/25/07
Units:	mg/Kg	Received:	04/25/07
Basis:	as received	Prepared:	04/26/07
Batch#:	124601		

Field ID:	RM-N2	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	04/30/07
Lab ID:	194375-010		

Analyte	Result	RL
Diesel C10-C24	5.7 L Y	1.0

Surrogate	%REC	Limits
Hexacosane	92	40-127

Field ID:	RM-N3	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	04/30/07
Lab ID:	194375-011		

Analyte	Result	RL
Diesel C10-C24	ND	1.0

Surrogate	%REC	Limits
Hexacosane	92	40-127

Field ID:	RM-E1	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	04/30/07
Lab ID:	194375-012		

Analyte	Result	RL
Diesel C10-C24	ND	1.0

Surrogate	%REC	Limits
Hexacosane	90	40-127

Field ID:	RM-W1	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	04/27/07
Lab ID:	194375-013		

Analyte	Result	RL
Diesel C10-C24	16 H L Y	1.0

Surrogate	%REC	Limits
Hexacosane	111	40-127

H= Heavier hydrocarbons contributed to the quantitation
 L= Lighter hydrocarbons contributed to the quantitation
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 O= Diluted Out
 D= Not Detected
 RL= Reporting Limit

Total Extractable Hydrocarbons

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	SHAKER TABLE
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	04/25/07
Units:	mg/Kg	Received:	04/25/07
Basis:	as received	Prepared:	04/26/07
Batch#:	124601		

Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC385382	Analyzed:	04/27/07

Analyte	Result	RL
Diesel C10-C24	ND	1.0

Surrogate	REC	Limits
Hexacosane	92	40-127

H= Heavier hydrocarbons contributed to the quantitation
 L= Lighter hydrocarbons contributed to the quantitation.
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 O= Diluted Out
 = Not Detected
 L= Reporting Limit

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	SHAKER TABLE
Project#:	STANDARD	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC385383	Batch#:	124601
Matrix:	Soil	Prepared:	04/26/07
Units:	mg/Kg	Analyzed:	04/27/07
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.88	45.10	90	58-127

Surrogate	%REC	Limits
Hexacosane	96	40-127

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	SHAKER TABLE
Project#:	STANDARD	Analysis:	EPA 8015B
Field ID:	RM-W1	Batch#:	124601
MSS Lab ID:	194375-013	Sampled:	04/25/07
Matrix:	Soil	Received:	04/25/07
Units:	mg/Kg	Prepared:	04/26/07
Basis:	as received	Analyzed:	04/30/07
Diln Fac:	1.000		

Type: MS Lab ID: QC385384

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	15.60	49.91	67.19	103	29-147

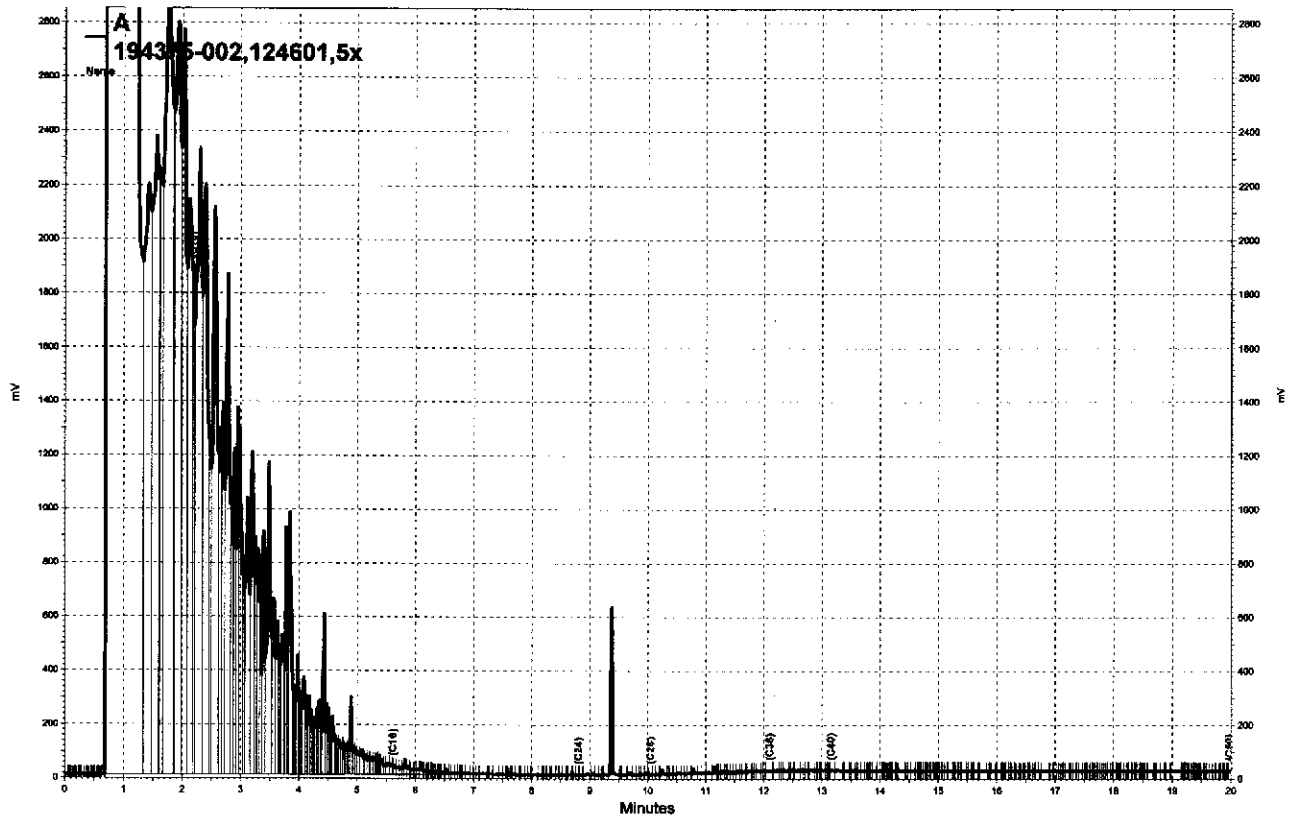
Surrogate	%REC	Limits
Hexacosane	101	40-127

Type: MSD Lab ID: QC385385

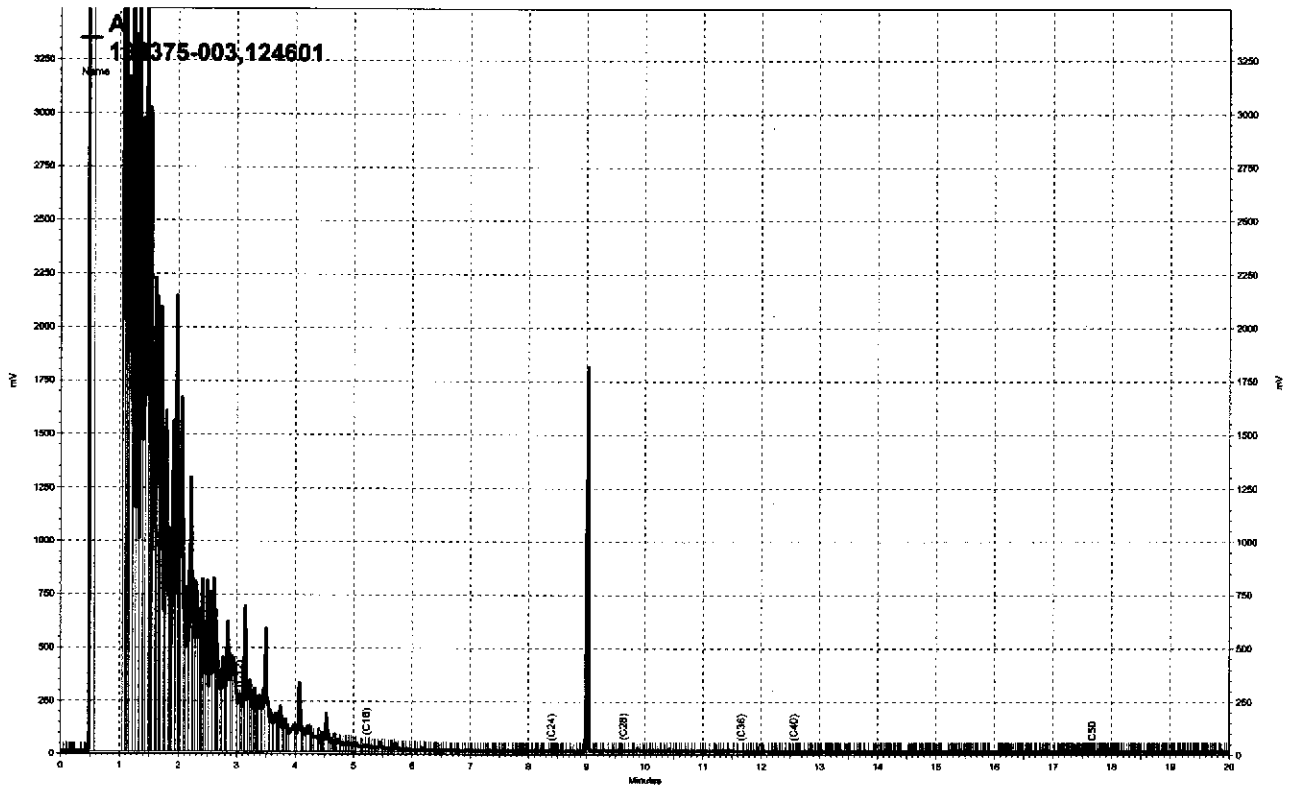
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	49.62	60.04	90	29-147	11	46

Surrogate	%REC	Limits
Hexacosane	96	40-127

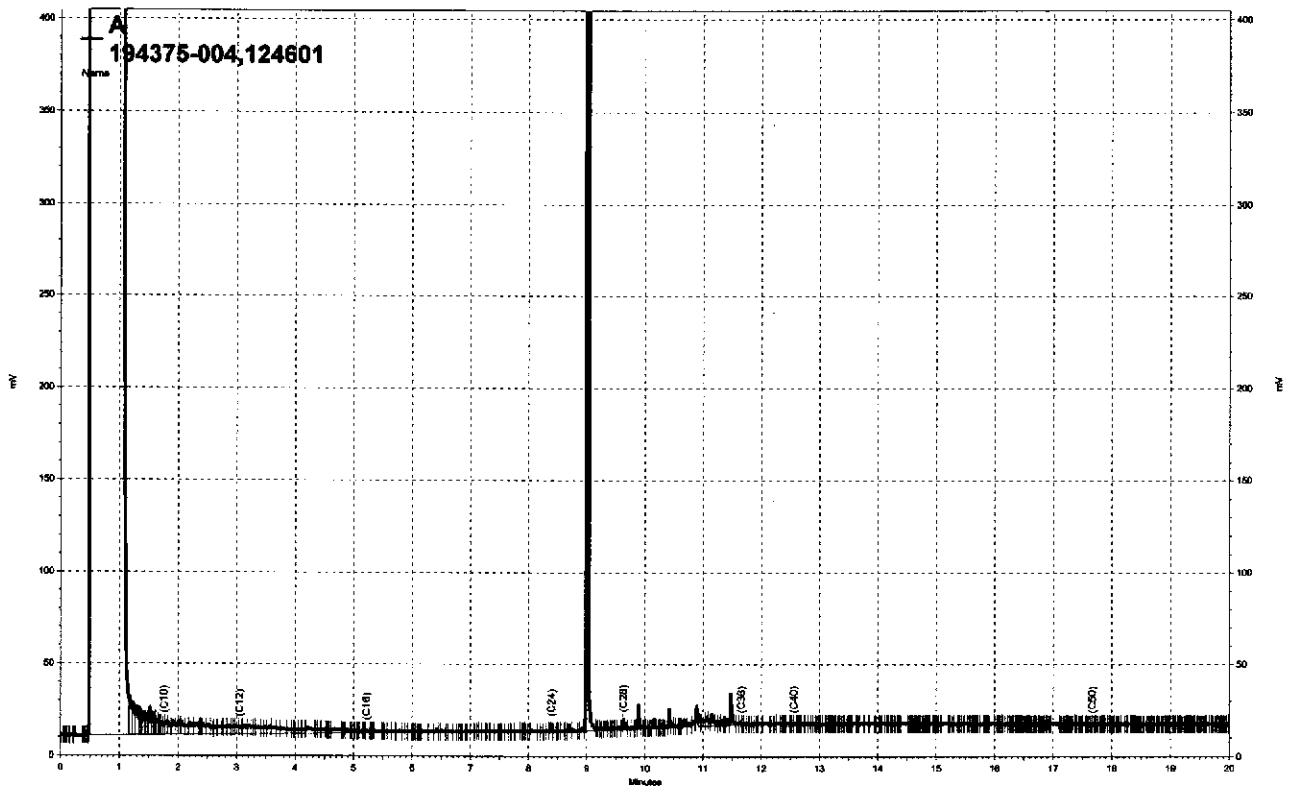
RPD= Relative Percent Difference



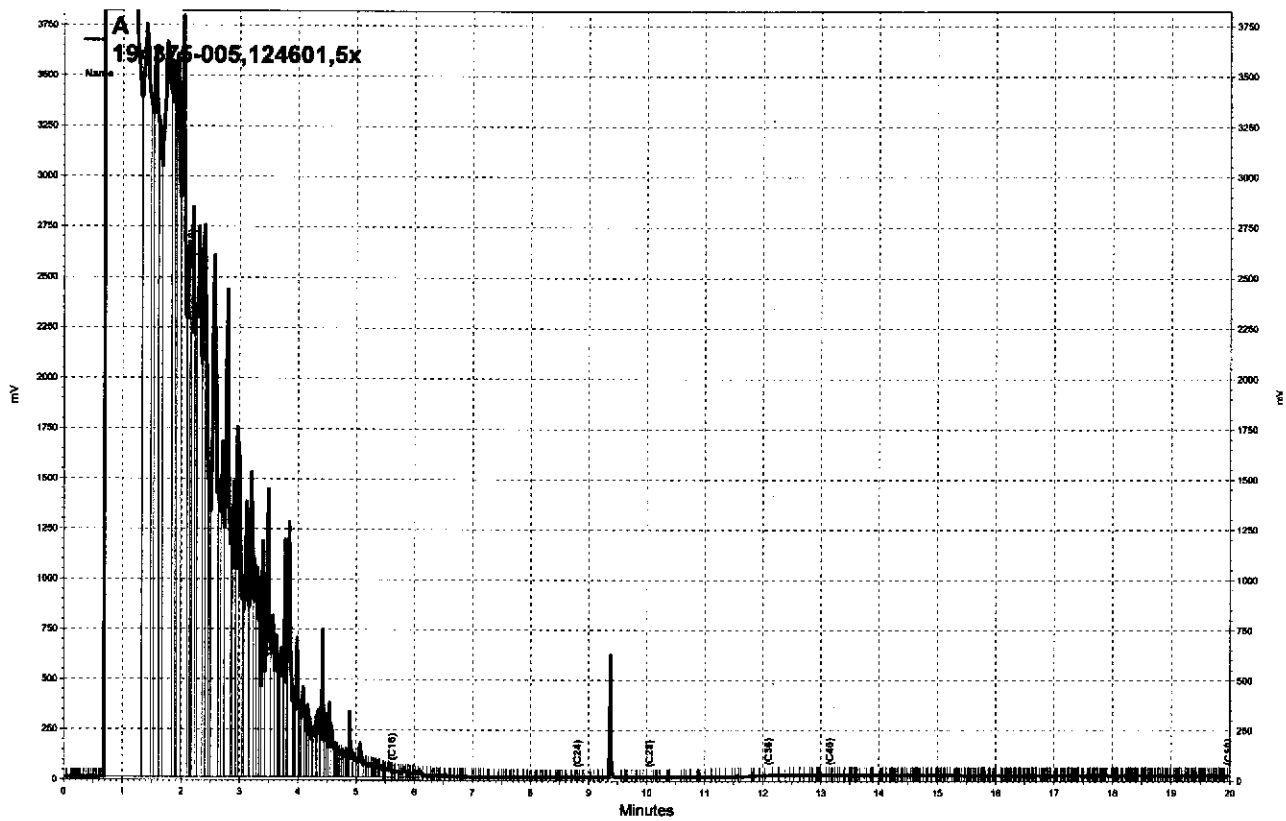
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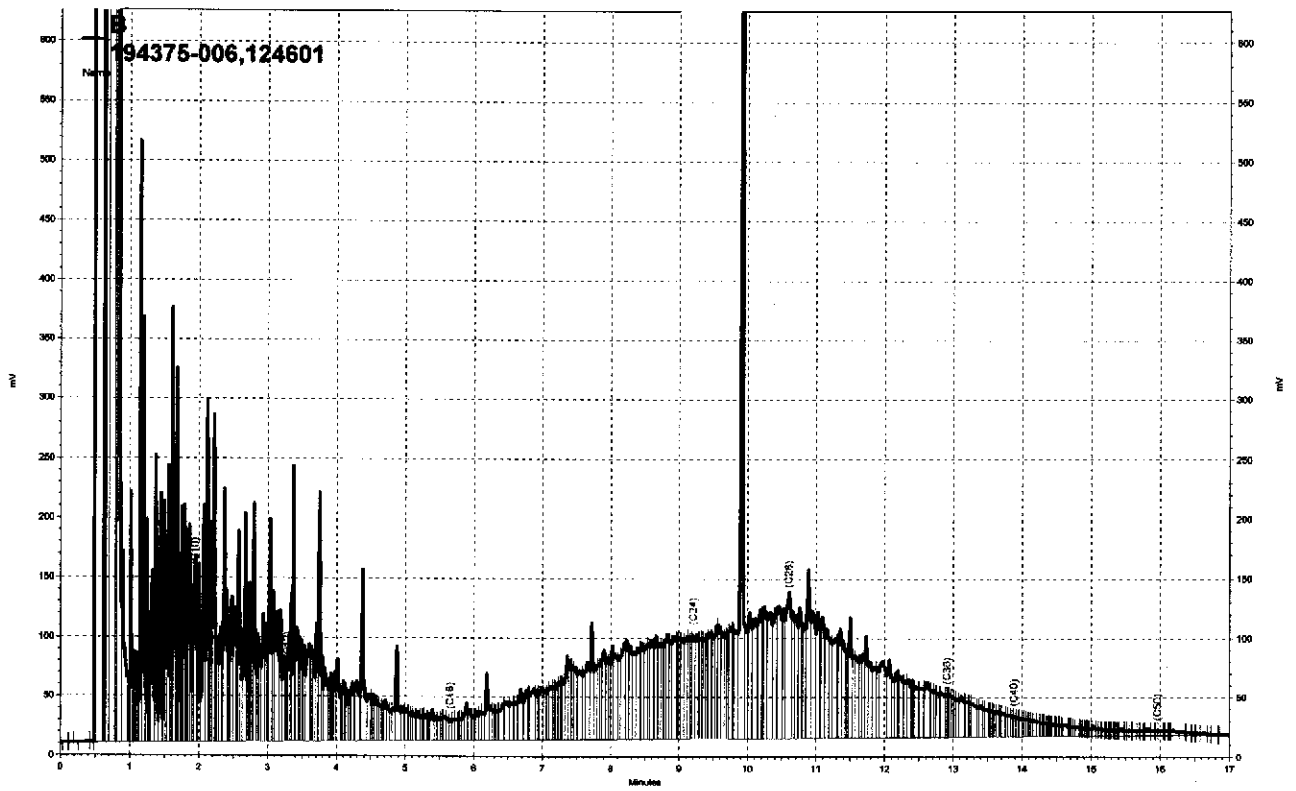
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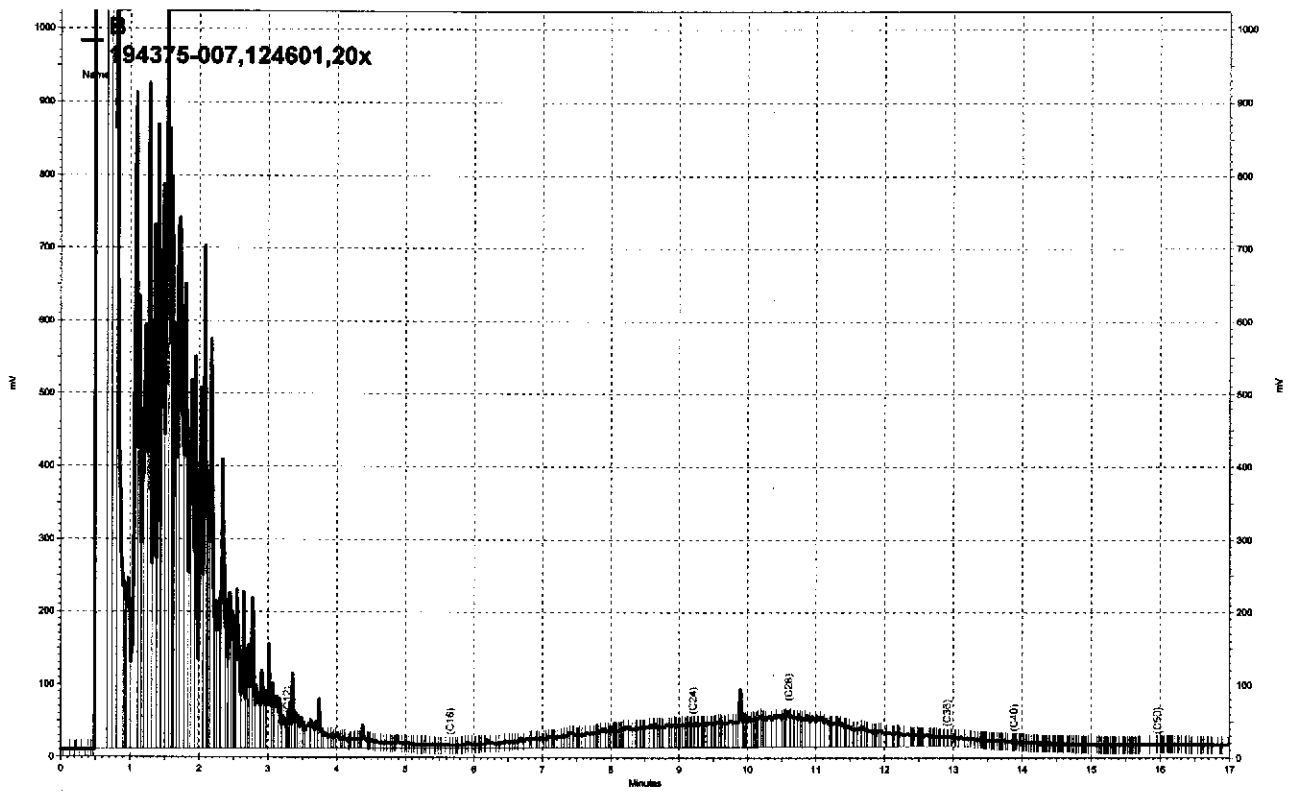
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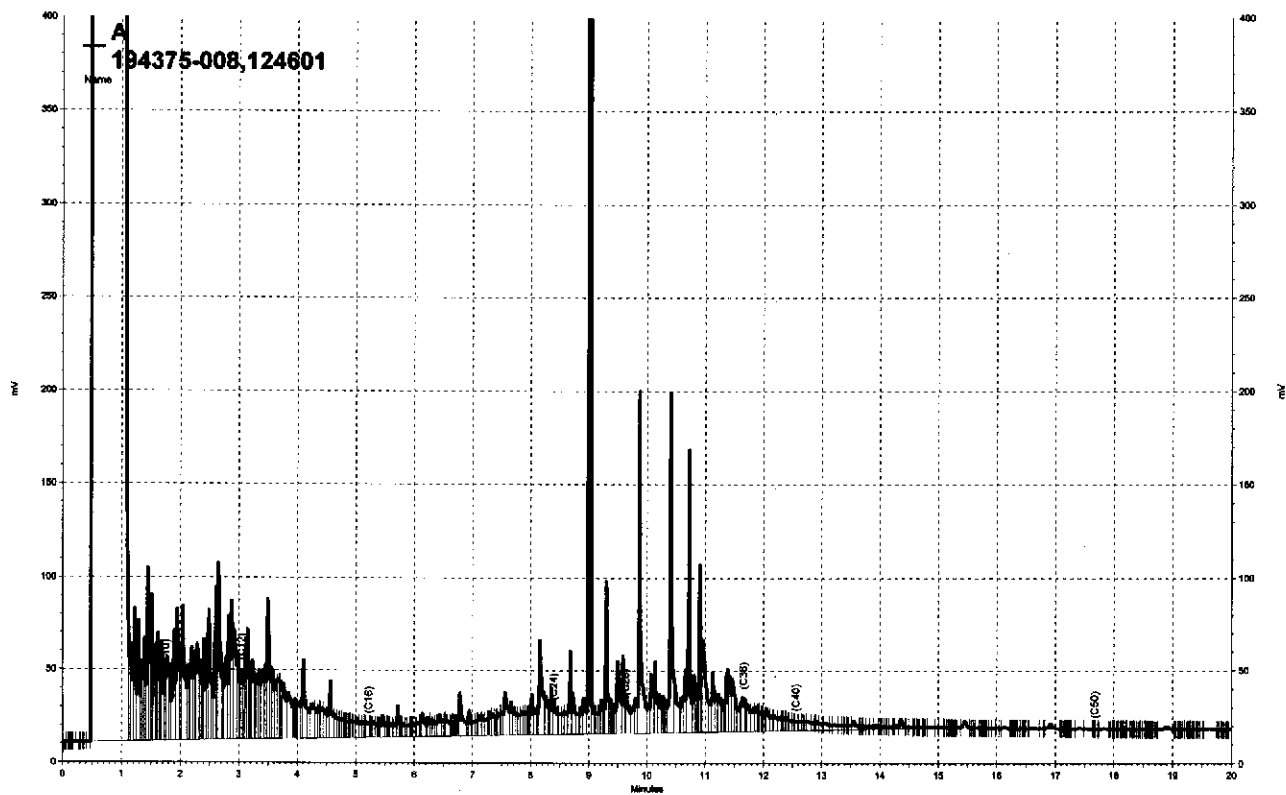
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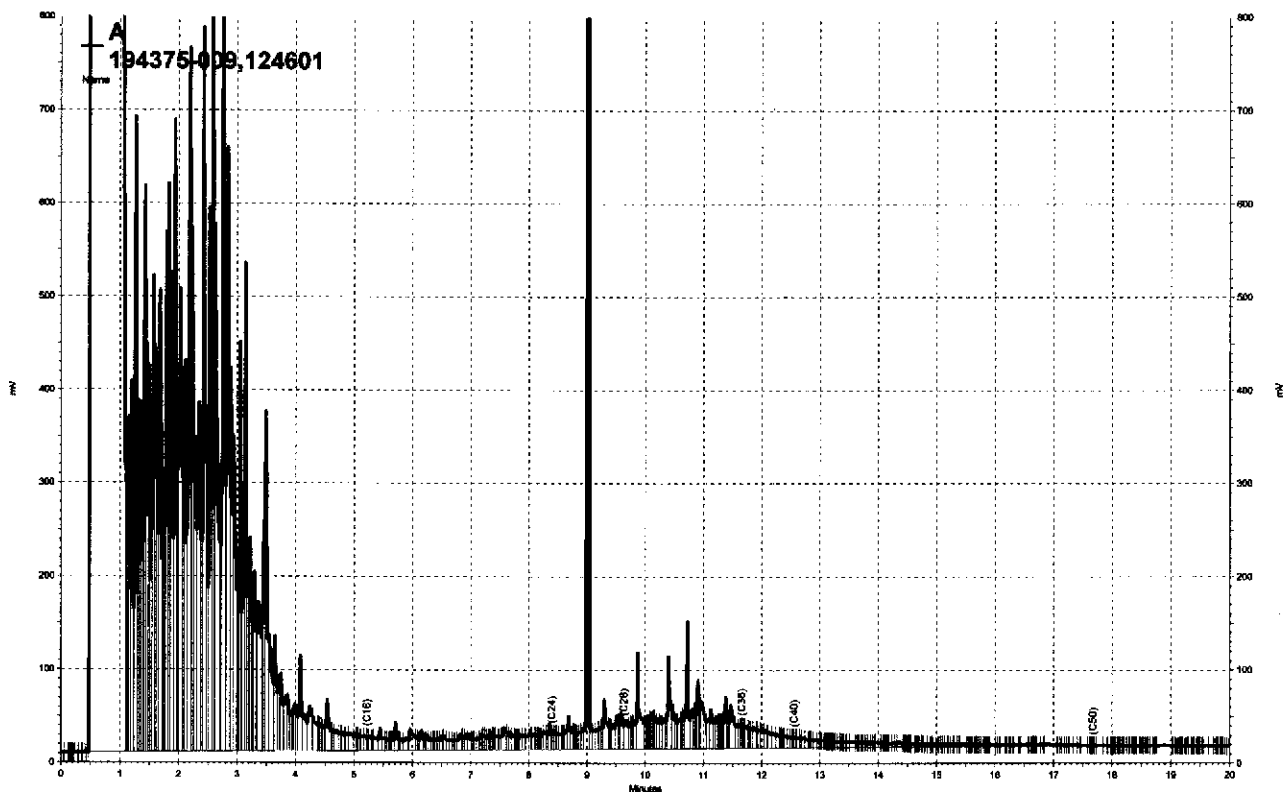
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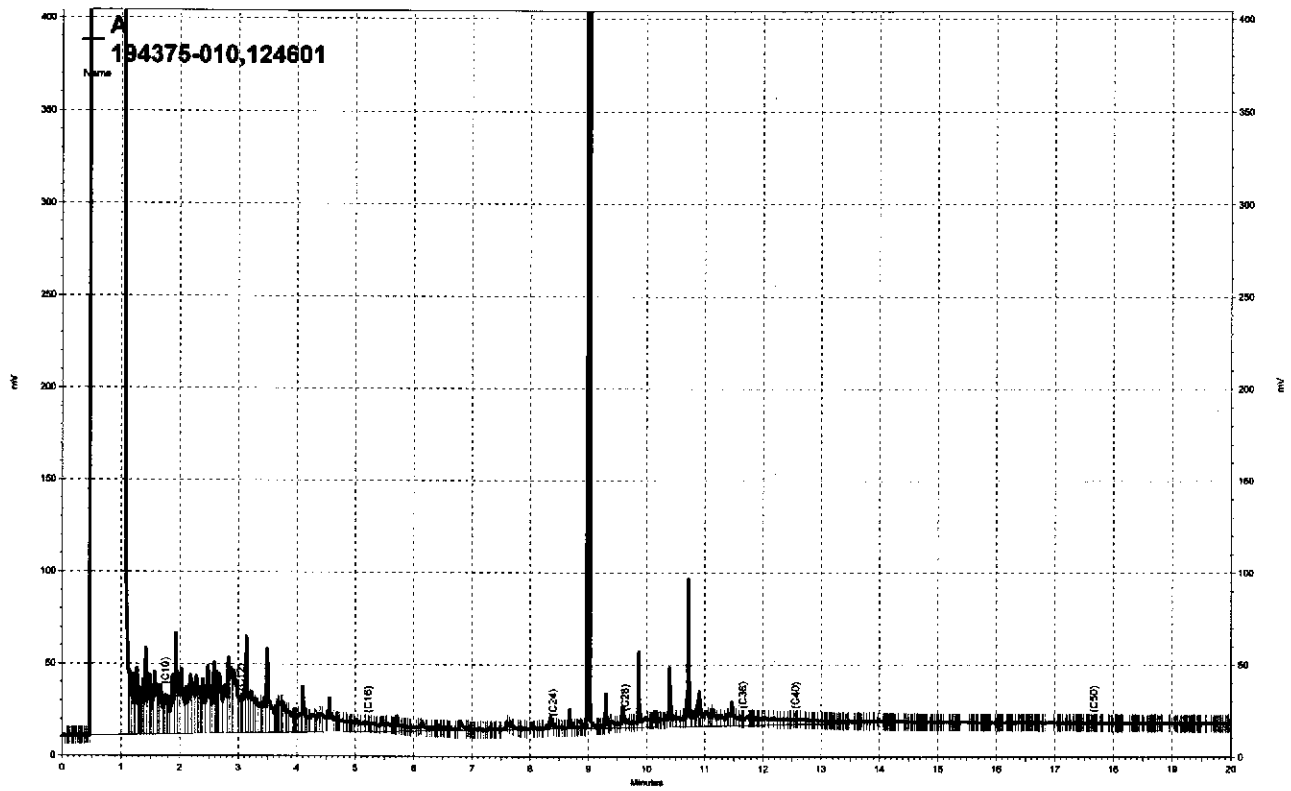
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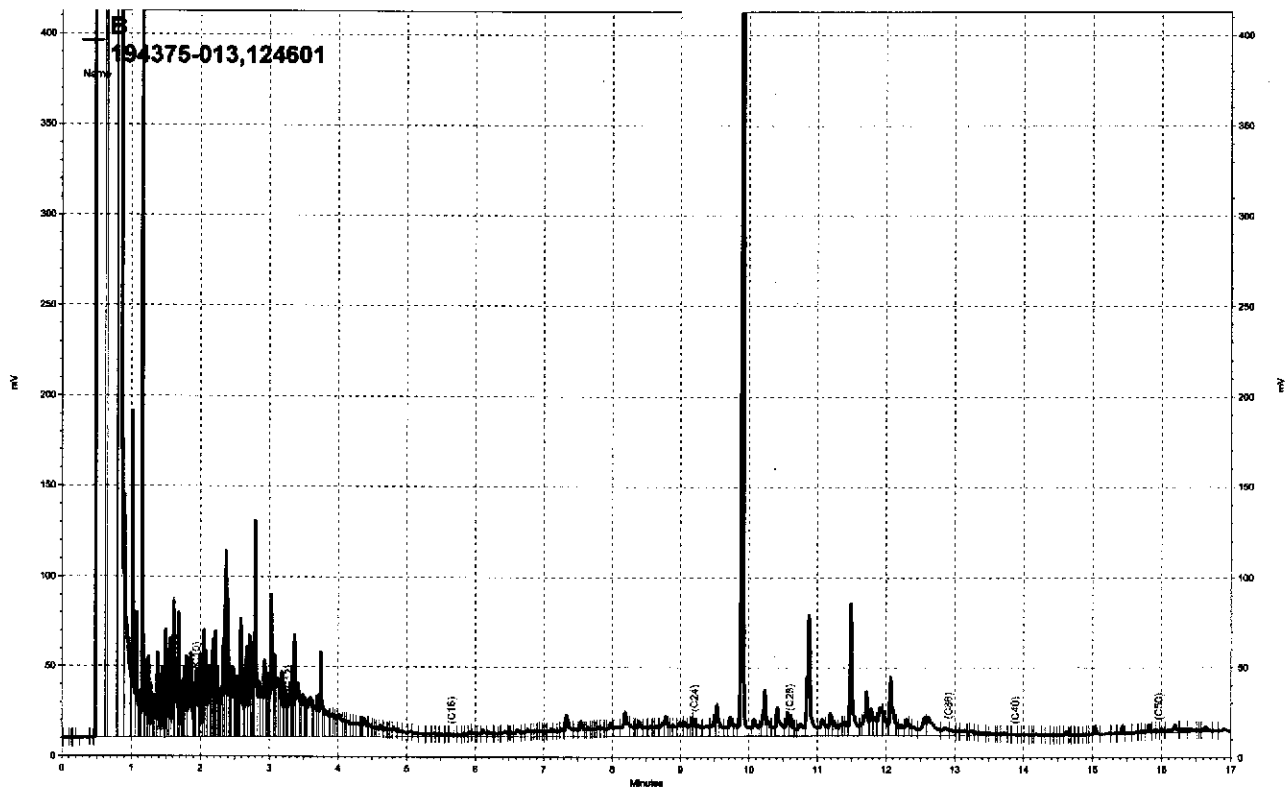
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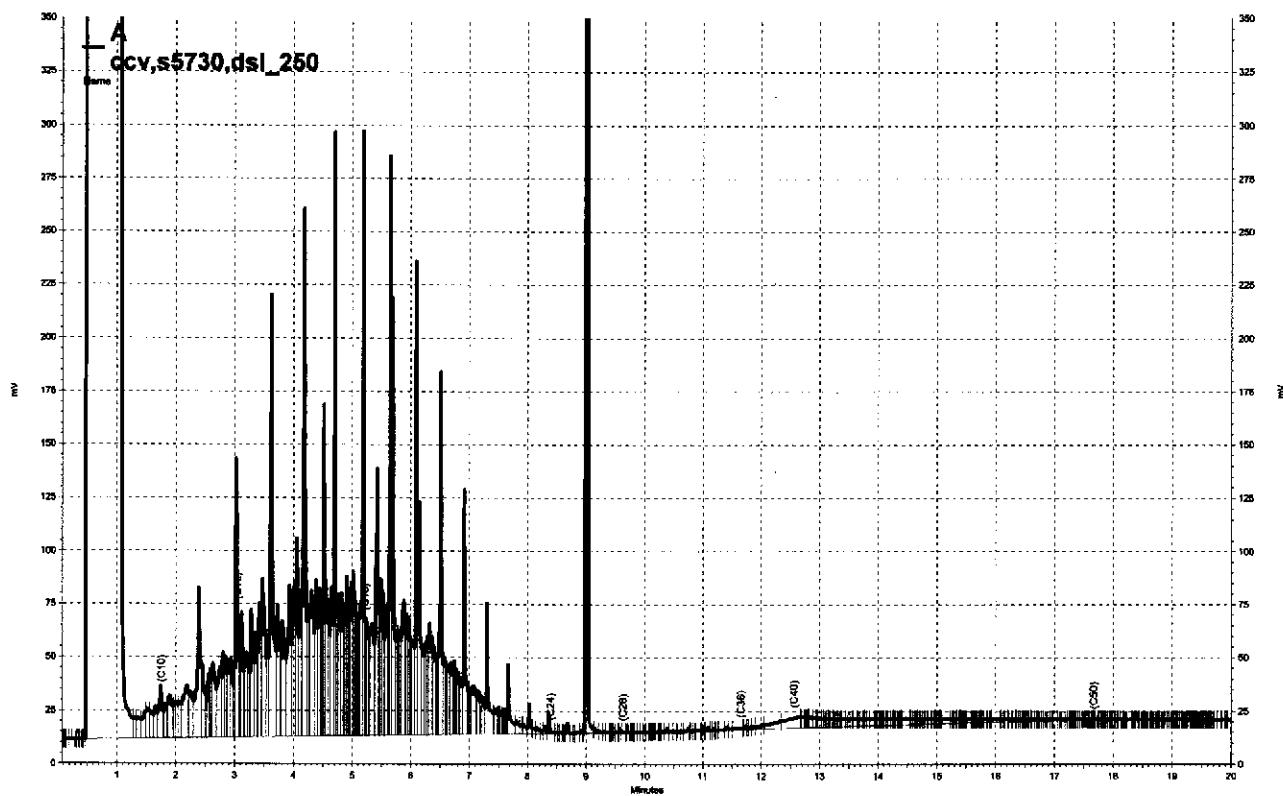
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Purgeable Organics by GC/MS

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	TB-1	Batch#:	124554
Lab ID:	194375-001	Sampled:	04/25/07
Matrix:	Water	Received:	04/25/07
Units:	ug/L	Analyzed:	04/26/07
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND = Not Detected

RL = Reporting Limit

Purgeable Organics by GC/MS

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	TB-1	Batch#:	124554
Lab ID:	194375-001	Sampled:	04/25/07
Matrix:	Water	Received:	04/25/07
Units:	ug/L	Analyzed:	04/26/07
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-123
1,2-Dichloroethane-d4	113	79-134
Toluene-d8	98	80-120
Bromofluorobenzene	106	80-122

ND = Not Detected
 RL = Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC385206	Batch#:	124554
Matrix:	Water	Analyzed:	04/26/07
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND = Not Detected
 RL = Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC385206	Batch#:	124554
Matrix:	Water	Analyzed:	04/26/07
Units:	ug/L		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	91	80-123
1,2-Dichloroethane-d4	110	79-134
Toluene-d8	97	80-120
Bromofluorobenzene	104	80-122

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	124554
Units:	ug/L	Analyzed:	04/26/07
Diln Fac:	1.000		

Type: BS Lab ID: QC385207

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	26.81	107	80-132
Benzene	25.00	25.41	102	80-120
Trichloroethene	25.00	27.72	111	80-120
Toluene	25.00	27.20	109	80-120
Chlorobenzene	25.00	27.94	112	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	88	80-123
1,2-Dichloroethane-d4	104	79-134
Toluene-d8	99	80-120
Bromofluorobenzene	102	80-122

Type: BSD Lab ID: QC385208

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	25.50	102	80-132	5	20
Benzene	25.00	24.89	100	80-120	2	20
Trichloroethene	25.00	26.58	106	80-120	4	20
Toluene	25.00	26.60	106	80-120	2	20
Chlorobenzene	25.00	26.16	105	80-120	7	20

Surrogate	%REC	Limits
Dibromofluoromethane	86	80-123
1,2-Dichloroethane-d4	107	79-134
Toluene-d8	100	80-120
Bromofluorobenzene	102	80-122

RPD= Relative Percent Difference

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	124554
MSS Lab ID:	194361-009	Sampled:	04/24/07
Matrix:	Water	Received:	04/25/07
Units:	ug/L	Analyzed:	04/26/07
Diln Fac:	1.000		

Type: MS Lab ID: QC385263

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	7.787	25.00	34.16	105	80-139
Benzene	<0.1024	25.00	25.57	102	80-123
Trichloroethene	9.903	25.00	36.50	106	75-129
Toluene	<0.08530	25.00	25.80	103	80-122
Chlorobenzene	<0.09805	25.00	25.95	104	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-123
1,2-Dichloroethane-d4	118	79-134
Toluene-d8	101	80-120
Bromofluorobenzene	106	80-122

Type: MSD Lab ID: QC385264

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	32.64	99	80-139	5	20
Benzene	25.00	25.53	102	80-123	0	20
Trichloroethene	25.00	35.37	102	75-129	3	20
Toluene	25.00	26.76	107	80-122	4	20
Chlorobenzene	25.00	26.26	105	80-120	1	20

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-123
1,2-Dichloroethane-d4	115	79-134
Toluene-d8	101	80-120
Bromofluorobenzene	106	80-122

RPD= Relative Percent Difference

Purgeable Organics by GC/MS

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	RM-B1	Diln Fac:	1,000
Lab ID:	194375-002	Batch#:	124991
Matrix:	Soil	Sampled:	04/25/07
Units:	ug/Kg	Received:	04/25/07
Basis:	as received	Analyzed:	05/09/07

Analyte	Result	RL
Freon 12	ND	10,000
Chloromethane	ND	10,000
Vinyl Chloride	ND	10,000
Bromomethane	ND	10,000
Chloroethane	ND	10,000
Trichlorofluoromethane	ND	5,000
Acetone	ND	25,000
Freon 113	ND	5,000
1,1-Dichloroethene	ND	5,000
Methylene Chloride	ND	20,000
Carbon Disulfide	ND	5,000
MTBE	ND	5,000
trans-1,2-Dichloroethene	ND	5,000
Vinyl Acetate	ND	50,000
1,1-Dichloroethane	ND	5,000
2-Butanone	ND	10,000
cis-1,2-Dichloroethene	ND	5,000
2,2-Dichloropropane	ND	5,000
Chloroform	ND	5,000
Bromochloromethane	ND	5,000
1,1,1-Trichloroethane	ND	5,000
1,1-Dichloropropene	ND	5,000
Carbon Tetrachloride	ND	5,000
1,2-Dichloroethane	ND	5,000
Benzene	ND	5,000
Trichloroethene	ND	5,000
1,2-Dichloropropane	ND	5,000
Bromodichloromethane	ND	5,000
Dibromomethane	ND	5,000
4-Methyl-2-Pentanone	ND	10,000
cis-1,3-Dichloropropene	ND	5,000
Toluene	ND	5,000
trans-1,3-Dichloropropene	ND	5,000
1,1,2-Trichloroethane	ND	5,000
2-Hexanone	ND	10,000
1,3-Dichloropropane	ND	5,000
Tetrachloroethene	ND	5,000
Dibromochloromethane	ND	5,000
1,2-Dibromoethane	ND	5,000
Chlorobenzene	ND	5,000
1,1,1,2-Tetrachloroethane	ND	5,000
Ethylbenzene	ND	5,000
m,p-Xylenes	ND	5,000
o-Xylene	ND	5,000
Styrene	ND	5,000
Bromoform	ND	5,000
Isopropylbenzene	5,300	5,000
1,1,2,2-Tetrachloroethane	ND	5,000
1,2,3-Trichloropropane	ND	5,000
Propylbenzene	7,800	5,000
Bromobenzene	ND	5,000
1,3,5-Trimethylbenzene	6,300	5,000
2-Chlorotoluene	ND	5,000

O= Diluted Out
 ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	RM-B1	Diln Fac:	1,000
Lab ID:	194375-002	Batch#:	124991
Matrix:	Soil	Sampled:	04/25/07
Units:	ug/Kg	Received:	04/25/07
Basis:	as received	Analyzed:	05/09/07

Analyte	Result	RL
4-Chlorotoluene	ND	5,000
tert-Butylbenzene	ND	5,000
1,2,4-Trimethylbenzene	24,000	5,000
sec-Butylbenzene	ND	5,000
para-Isopropyl Toluene	ND	5,000
1,3-Dichlorobenzene	ND	5,000
1,4-Dichlorobenzene	ND	5,000
n-Butylbenzene	ND	5,000
1,2-Dichlorobenzene	ND	5,000
1,2-Dibromo-3-Chloropropane	ND	5,000
1,2,4-Trichlorobenzene	ND	5,000
Hexachlorobutadiene	ND	5,000
Naphthalene	ND	5,000
1,2,3-Trichlorobenzene	ND	5,000

Surrogate	REC	Limits
Dibromofluoromethane	93	78-126
1,2-Dichloroethane-d4	99	76-135
Toluene-d8	98	80-120
Bromofluorobenzene	115	80-126
Trifluorotoluene (MeOH)	DO	58-142

DO= Diluted Out
 ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	RM-B2	Diln Fac:	2,000
Lab ID:	194375-003	Batch#:	124991
Matrix:	Soil	Sampled:	04/25/07
Units:	ug/Kg	Received:	04/25/07
Basis:	as received	Analyzed:	05/09/07

Analyte	Result	RL
Freon 12	ND	20,000
Chloromethane	ND	20,000
Vinyl Chloride	ND	20,000
Bromomethane	ND	20,000
Chloroethane	ND	20,000
Trichlorofluoromethane	ND	10,000
Acetone	ND	50,000
Freon 113	ND	10,000
1,1-Dichloroethene	ND	10,000
Methylene Chloride	ND	40,000
Carbon Disulfide	ND	10,000
MTBE	ND	10,000
trans-1,2-Dichloroethene	ND	10,000
Vinyl Acetate	ND	100,000
1,1-Dichloroethane	ND	10,000
2-Butanone	ND	20,000
cis-1,2-Dichloroethene	ND	10,000
2,2-Dichloropropane	ND	10,000
Chloroform	ND	10,000
Bromochloromethane	ND	10,000
1,1,1-Trichloroethane	ND	10,000
1,1-Dichloropropene	ND	10,000
Carbon Tetrachloride	ND	10,000
1,2-Dichloroethane	ND	10,000
Benzene	ND	10,000
Trichloroethene	ND	10,000
1,2-Dichloropropane	ND	10,000
Bromodichloromethane	ND	10,000
Dibromomethane	ND	10,000
4-Methyl-2-Pentanone	ND	20,000
cis-1,3-Dichloropropene	ND	10,000
Toluene	ND	10,000
trans-1,3-Dichloropropene	ND	10,000
1,1,2-Trichloroethane	ND	10,000
2-Hexanone	ND	20,000
1,3-Dichloropropane	ND	10,000
Tetrachloroethene	ND	10,000
Dibromochloromethane	ND	10,000
1,2-Dibromoethane	ND	10,000
Chlorobenzene	ND	10,000
1,1,1,2-Tetrachloroethane	ND	10,000
Ethylbenzene	ND	10,000
m,p-Xylenes	ND	10,000
o-Xylene	ND	10,000
Styrene	ND	10,000
Bromoform	ND	10,000
Isopropylbenzene	ND	10,000
1,1,2,2-Tetrachloroethane	ND	10,000
1,2,3-Trichloropropane	ND	10,000
Propylbenzene	ND	10,000
Bromobenzene	ND	10,000
1,3,5-Trimethylbenzene	ND	10,000
2-Chlorotoluene	ND	10,000

O= Diluted Out
 ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	RM-B2	Diln Fac:	2,000
Lab ID:	194375-003	Batch#:	124991
Matrix:	Soil	Sampled:	04/25/07
Units:	ug/Kg	Received:	04/25/07
Basis:	as received	Analyzed:	05/09/07

Analyte	Result	RL
4-Chlorotoluene	ND	10,000
tert-Butylbenzene	ND	10,000
1,2,4-Trimethylbenzene	ND	10,000
sec-Butylbenzene	ND	10,000
para-Isopropyl Toluene	ND	10,000
1,3-Dichlorobenzene	ND	10,000
1,4-Dichlorobenzene	ND	10,000
n-Butylbenzene	ND	10,000
1,2-Dichlorobenzene	ND	10,000
1,2-Dibromo-3-Chloropropane	ND	10,000
1,2,4-Trichlorobenzene	ND	10,000
Hexachlorobutadiene	ND	10,000
Naphthalene	ND	10,000
1,2,3-Trichlorobenzene	ND	10,000

Surrogate	%REC	Limits
Dibromofluoromethane	90	78-126
1,2-Dichloroethane-d4	82	76-135
Toluene-d8	93	80-120
Bromofluorobenzene	100	80-126
Trifluorotoluene (MeOH)	DO	58-142

DO= Diluted Out
 ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	RM-B3	Diln Fac:	0.9434
Lab ID:	194375-004	Batch#:	124805
Matrix:	Soil	Sampled:	04/25/07
Units:	ug/Kg	Received:	04/25/07
Basis:	as received	Analyzed:	05/03/07

Analyte	Result	RL
Freon 12	ND	9.4
Chloromethane	ND	9.4
Vinyl Chloride	ND	9.4
Bromomethane	ND	9.4
Chloroethane	ND	9.4
Trichlorofluoromethane	ND	4.7
Acetone	ND	24
Freon 113	ND	4.7
1,1-Dichloroethene	ND	4.7
Methylene Chloride	ND	19
Carbon Disulfide	ND	4.7
MTBE	ND	4.7
trans-1,2-Dichloroethene	ND	4.7
Vinyl Acetate	ND	47
1,1-Dichloroethane	ND	4.7
2-Butanone	ND	9.4
cis-1,2-Dichloroethene	ND	4.7
2,2-Dichloropropane	ND	4.7
Chloroform	ND	4.7
Bromochloromethane	ND	4.7
1,1,1-Trichloroethane	ND	4.7
1,1-Dichloropropene	ND	4.7
Carbon Tetrachloride	ND	4.7
1,2-Dichloroethane	ND	4.7
Benzene	ND	4.7
Trichloroethene	ND	4.7
1,2-Dichloropropane	ND	4.7
Bromodichloromethane	ND	4.7
Dibromomethane	ND	4.7
4-Methyl-2-Pentanone	ND	9.4
cis-1,3-Dichloropropene	ND	4.7
Toluene	ND	4.7
trans-1,3-Dichloropropene	ND	4.7
1,1,2-Trichloroethane	ND	4.7
2-Hexanone	ND	9.4
1,3-Dichloropropane	ND	4.7
Tetrachloroethene	ND	4.7

ND = Not Detected
 RL = Reporting Limit

Purgeable Organics by GC/MS

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	RM-B3	Diln Fac:	0.9434
Lab ID:	194375-004	Batch#:	124805
Matrix:	Soil	Sampled:	04/25/07
Units:	ug/Kg	Received:	04/25/07
Basis:	as received	Analyzed:	05/03/07

Analyte	Result	RL
Dibromochloromethane	ND	4.7
1,2-Dibromoethane	ND	4.7
Chlorobenzene	ND	4.7
1,1,1,2-Tetrachloroethane	ND	4.7
Ethylbenzene	ND	4.7
m,p-Xylenes	ND	4.7
o-Xylene	ND	4.7
Styrene	ND	4.7
Bromoform	ND	4.7
Isopropylbenzene	ND	4.7
1,1,2,2-Tetrachloroethane	ND	4.7
1,2,3-Trichloropropane	ND	4.7
Propylbenzene	ND	4.7
Bromobenzene	ND	4.7
1,3,5-Trimethylbenzene	ND	4.7
2-Chlorotoluene	ND	4.7
4-Chlorotoluene	ND	4.7
tert-Butylbenzene	ND	4.7
1,2,4-Trimethylbenzene	ND	4.7
sec-Butylbenzene	ND	4.7
para-Isopropyl Toluene	ND	4.7
1,3-Dichlorobenzene	ND	4.7
1,4-Dichlorobenzene	ND	4.7
n-Butylbenzene	ND	4.7
1,2-Dichlorobenzene	ND	4.7
1,2-Dibromo-3-Chloropropane	ND	4.7
1,2,4-Trichlorobenzene	ND	4.7
Hexachlorobutadiene	ND	4.7
Naphthalene	ND	4.7
1,2,3-Trichlorobenzene	ND	4.7

Surrogate	%REC	Limits
Dibromofluoromethane	104	78-126
1,2-Dichloroethane-d4	99	76-135
Toluene-d8	105	80-120
Bromofluorobenzene	109	80-126

ND = Not Detected
 RL = Reporting Limit

Purgeable Organics by GC/MS

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	RM-B4	Diln Fac:	2,000
Lab ID:	194375-005	Batch#:	124903
Matrix:	Soil	Sampled:	04/25/07
Units:	ug/Kg	Received:	04/25/07
Basis:	as received	Analyzed:	05/07/07

Analyte	Result	RL
Freon 12	ND	20,000
Chloromethane	ND	20,000
Vinyl Chloride	ND	20,000
Bromomethane	ND	20,000
Chloroethane	ND	20,000
Trichlorofluoromethane	ND	10,000
Acetone	ND	50,000
Freon 113	ND	10,000
1,1-Dichloroethene	ND	10,000
Methylene Chloride	ND	40,000
Carbon Disulfide	ND	10,000
MTBE	ND	10,000
trans-1,2-Dichloroethene	ND	10,000
Vinyl Acetate	ND	100,000
1,1-Dichloroethane	ND	10,000
2-Butanone	ND	20,000
cis-1,2-Dichloroethene	ND	10,000
2,2-Dichloropropane	ND	10,000
Chloroform	ND	10,000
Bromochloromethane	ND	10,000
1,1,1-Trichloroethane	ND	10,000
1,1-Dichloropropene	ND	10,000
Carbon Tetrachloride	ND	10,000
1,2-Dichloroethane	ND	10,000
Benzene	ND	10,000
Trichloroethene	ND	10,000
1,2-Dichloropropane	ND	10,000
Bromodichloromethane	ND	10,000
Dibromomethane	ND	10,000
4-Methyl-2-Pentanone	ND	20,000
cis-1,3-Dichloropropene	ND	10,000
Toluene	ND	10,000
trans-1,3-Dichloropropene	ND	10,000
1,1,2-Trichloroethane	ND	10,000
2-Hexanone	ND	20,000
1,3-Dichloropropane	ND	10,000
Tetrachloroethene	ND	10,000
Dibromochloromethane	ND	10,000
1,2-Dibromoethane	ND	10,000
Chlorobenzene	ND	10,000
1,1,1,2-Tetrachloroethane	ND	10,000
Ethylbenzene	ND	10,000
m,p-Xylenes	33,000	10,000
o-Xylene	ND	10,000
Styrene	ND	10,000
Bromoform	ND	10,000
Isopropylbenzene	ND	10,000
1,1,2,2-Tetrachloroethane	ND	10,000
1,2,3-Trichloropropane	ND	10,000
Propylbenzene	13,000	10,000
Bromobenzene	ND	10,000
1,3,5-Trimethylbenzene	21,000	10,000
2-Chlorotoluene	ND	10,000

O= Diluted Out
 ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	RM-B4	Diln Fac:	2,000
Lab ID:	194375-005	Batch#:	124903
Matrix:	Soil	Sampled:	04/25/07
Units:	ug/Kg	Received:	04/25/07
Basis:	as received	Analyzed:	05/07/07

Analyte	Result	RL
4-Chlorotoluene	ND	10,000
tert-Butylbenzene	ND	10,000
1,2,4-Trimethylbenzene	60,000	10,000
sec-Butylbenzene	ND	10,000
para-Isopropyl Toluene	ND	10,000
1,3-Dichlorobenzene	ND	10,000
1,4-Dichlorobenzene	ND	10,000
n-Butylbenzene	ND	10,000
1,2-Dichlorobenzene	ND	10,000
1,2-Dibromo-3-Chloropropane	ND	10,000
1,2,4-Trichlorobenzene	ND	10,000
Hexachlorobutadiene	ND	10,000
Naphthalene	ND	10,000
1,2,3-Trichlorobenzene	ND	10,000

Surrogate	%REC	Limits
Dibromofluoromethane	103	78-126
1,2-Dichloroethane-d4	113	76-135
Toluene-d8	105	80-120
Bromofluorobenzene	116	80-126
Trifluorotoluene (MeOH)	DO	58-142

DO= Diluted Out
 ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	RM-S1	Diln Fac:	5.000
Lab ID:	194375-006	Batch#:	124955
Matrix:	Soil	Sampled:	04/25/07
Units:	ug/Kg	Received:	04/25/07
Basis:	as received	Analyzed:	05/08/07

Analyte	Result	RL
Freon 12	ND	50
Chloromethane	ND	50
Vinyl Chloride	ND	50
Bromomethane	ND	50
Chloroethane	ND	50
Trichlorofluoromethane	ND	25
Acetone	140	130
Freon 113	ND	25
1,1-Dichloroethene	ND	25
Methylene Chloride	ND	100
Carbon Disulfide	ND	25
MTBE	ND	25
trans-1,2-Dichloroethene	ND	25
Vinyl Acetate	ND	250
1,1-Dichloroethane	ND	25
2-Butanone	ND	50
cis-1,2-Dichloroethene	ND	25
2,2-Dichloropropane	ND	25
Chloroform	ND	25
Bromochloromethane	ND	25
1,1,1-Trichloroethane	ND	25
1,1-Dichloropropene	ND	25
Carbon Tetrachloride	ND	25
1,2-Dichloroethane	ND	25
Benzene	ND	25
Trichloroethene	ND	25
1,2-Dichloropropane	ND	25
Bromodichloromethane	ND	25
Dibromomethane	ND	25
4-Methyl-2-Pentanone	ND	50
cis-1,3-Dichloropropene	ND	25
Toluene	ND	25
trans-1,3-Dichloropropene	ND	25
1,1,2-Trichloroethane	ND	25
2-Hexanone	ND	50
1,3-Dichloropropane	ND	25
Tetrachloroethene	ND	25

ND = Not Detected
 RL = Reporting Limit

Purgeable Organics by GC/MS

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	RM-S1	Diln Fac:	5.000
Lab ID:	194375-006	Batch#:	124955
Matrix:	Soil	Sampled:	04/25/07
Units:	ug/Kg	Received:	04/25/07
Basis:	as received	Analyzed:	05/08/07

Analyte	Result	RL
Dibromochloromethane	ND	25
1,2-Dibromoethane	ND	25
Chlorobenzene	ND	25
1,1,1,2-Tetrachloroethane	ND	25
Ethylbenzene	ND	25
m,p-Xylenes	ND	25
o-Xylene	ND	25
Styrene	ND	25
Bromoform	ND	25
Isopropylbenzene	ND	25
1,1,2,2-Tetrachloroethane	ND	25
1,2,3-Trichloropropane	ND	25
Propylbenzene	28	25
Bromobenzene	ND	25
1,3,5-Trimethylbenzene	ND	25
2-Chlorotoluene	ND	25
4-Chlorotoluene	ND	25
tert-Butylbenzene	ND	25
1,2,4-Trimethylbenzene	ND	25
sec-Butylbenzene	41	25
para-Isopropyl Toluene	ND	25
1,3-Dichlorobenzene	ND	25
1,4-Dichlorobenzene	ND	25
n-Butylbenzene	ND	25
1,2-Dichlorobenzene	ND	25
1,2-Dibromo-3-Chloropropane	ND	25
1,2,4-Trichlorobenzene	ND	25
Hexachlorobutadiene	ND	25
Naphthalene	31	25
1,2,3-Trichlorobenzene	ND	25

Surrogate	%REC	Limits
Dibromofluoromethane	93	78-126
1,2-Dichloroethane-d4	94	76-135
Toluene-d8	93	80-120
Bromofluorobenzene	118	80-126

ND = Not Detected
 RL = Reporting Limit

Purgeable Organics by GC/MS

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	RM-S2	Diln Fac:	1,000
Lab ID:	194375-007	Batch#:	124991
Matrix:	Soil	Sampled:	04/25/07
Units:	ug/Kg	Received:	04/25/07
Basis:	as received	Analyzed:	05/09/07

Analyte	Result	RL
Freon 12	ND	10,000
Chloromethane	ND	10,000
Vinyl Chloride	ND	10,000
Bromomethane	ND	10,000
Chloroethane	ND	10,000
Trichlorofluoromethane	ND	5,000
Acetone	ND	25,000
Freon 113	ND	5,000
1,1-Dichloroethene	ND	5,000
Methylene Chloride	ND	20,000
Carbon Disulfide	ND	5,000
MTBE	ND	5,000
trans-1,2-Dichloroethene	ND	5,000
Vinyl Acetate	ND	50,000
1,1-Dichloroethane	ND	5,000
2-Butanone	ND	10,000
cis-1,2-Dichloroethene	ND	5,000
2,2-Dichloropropane	ND	5,000
Chloroform	ND	5,000
Bromochloromethane	ND	5,000
1,1,1-Trichloroethane	ND	5,000
1,1-Dichloropropene	ND	5,000
Carbon Tetrachloride	ND	5,000
1,2-Dichloroethane	ND	5,000
Benzene	ND	5,000
Trichloroethene	ND	5,000
1,2-Dichloropropane	ND	5,000
Bromodichloromethane	ND	5,000
Dibromomethane	ND	5,000
4-Methyl-2-Pentanone	ND	10,000
cis-1,3-Dichloropropene	ND	5,000
Toluene	ND	5,000
trans-1,3-Dichloropropene	ND	5,000
1,1,2-Trichloroethane	ND	5,000
2-Hexanone	ND	10,000
1,3-Dichloropropane	ND	5,000
Tetrachloroethene	ND	5,000
Dibromochloromethane	ND	5,000
1,2-Dibromoethane	ND	5,000
Chlorobenzene	ND	5,000
1,1,1,2-Tetrachloroethane	ND	5,000
Ethylbenzene	ND	5,000
m,p-Xylenes	ND	5,000
o-Xylene	ND	5,000
Styrene	ND	5,000
Bromoform	ND	5,000
Isopropylbenzene	ND	5,000
1,1,2,2-Tetrachloroethane	ND	5,000
1,2,3-Trichloropropane	ND	5,000
Propylbenzene	ND	5,000
Bromobenzene	ND	5,000
1,3,5-Trimethylbenzene	ND	5,000
2-Chlorotoluene	ND	5,000

O= Diluted Out
 ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	RM-S2	Diln Fac:	1,000
Lab ID:	194375-007	Batch#:	124991
Matrix:	Soil	Sampled:	04/25/07
Units:	ug/Kg	Received:	04/25/07
Basis:	as received	Analyzed:	05/09/07

Analyte	Result	RL
4-Chlorotoluene	ND	5,000
tert-Butylbenzene	ND	5,000
1,2,4-Trimethylbenzene	ND	5,000
sec-Butylbenzene	ND	5,000
para-Isopropyl Toluene	ND	5,000
1,3-Dichlorobenzene	ND	5,000
1,4-Dichlorobenzene	ND	5,000
n-Butylbenzene	ND	5,000
1,2-Dichlorobenzene	ND	5,000
1,2-Dibromo-3-Chloropropane	ND	5,000
1,2,4-Trichlorobenzene	ND	5,000
Hexachlorobutadiene	ND	5,000
Naphthalene	ND	5,000
1,2,3-Trichlorobenzene	ND	5,000

Surrogate	%REC	Limits
Dibromofluoromethane	87	78-126
1,2-Dichloroethane-d4	81	76-135
Toluene-d8	92	80-120
Bromofluorobenzene	112	80-126
Trifluorotoluene (MeOH)	DO	58-142

DO= Diluted Out
 ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	RM-S3	Diln Fac:	0.9615
Lab ID:	194375-008	Batch#:	124955
Matrix:	Soil	Sampled:	04/25/07
Units:	ug/Kg	Received:	04/25/07
Basis:	as received	Analyzed:	05/08/07

Analyte	Result	RL
Freon 12	ND	9.6
Chloromethane	ND	9.6
Vinyl Chloride	ND	9.6
Bromomethane	ND	9.6
Chloroethane	ND	9.6
Trichlorofluoromethane	ND	4.8
Acetone	70	24
Freon 113	ND	4.8
1,1-Dichloroethene	ND	4.8
Methylene Chloride	ND	19
Carbon Disulfide	ND	4.8
MTBE	ND	4.8
trans-1,2-Dichloroethene	ND	4.8
Vinyl Acetate	ND	48
1,1-Dichloroethane	ND	4.8
2-Butanone	12	9.6
cis-1,2-Dichloroethene	ND	4.8
2,2-Dichloropropane	ND	4.8
Chloroform	ND	4.8
Bromochloromethane	ND	4.8
1,1,1-Trichloroethane	ND	4.8
1,1-Dichloropropene	ND	4.8
Carbon Tetrachloride	ND	4.8
1,2-Dichloroethane	ND	4.8
Benzene	ND	4.8
Trichloroethene	ND	4.8
1,2-Dichloropropane	ND	4.8
Bromodichloromethane	ND	4.8
Dibromomethane	ND	4.8
4-Methyl-2-Pentanone	ND	9.6
cis-1,3-Dichloropropene	ND	4.8
Toluene	ND	4.8
trans-1,3-Dichloropropene	ND	4.8
1,1,2-Trichloroethane	ND	4.8
2-Hexanone	ND	9.6
1,3-Dichloropropane	ND	4.8
Tetrachloroethene	ND	4.8

ND = Not Detected
 RL = Reporting Limit

Purgeable Organics by GC/MS

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	RM-S3	Diln Fac:	0.9615
Lab ID:	194375-008	Batch#:	124955
Matrix:	Soil	Sampled:	04/25/07
Units:	ug/Kg	Received:	04/25/07
Basis:	as received	Analyzed:	05/08/07

Analyte	Result	RL
Dibromochloromethane	ND	4.8
1,2-Dibromoethane	ND	4.8
Chlorobenzene	ND	4.8
1,1,1,2-Tetrachloroethane	ND	4.8
Ethylbenzene	ND	4.8
m,p-Xylenes	ND	4.8
o-Xylene	ND	4.8
Styrene	ND	4.8
Bromoform	ND	4.8
Isopropylbenzene	ND	4.8
1,1,2,2-Tetrachloroethane	ND	4.8
1,2,3-Trichloropropane	ND	4.8
Propylbenzene	ND	4.8
Bromobenzene	ND	4.8
1,3,5-Trimethylbenzene	ND	4.8
2-Chlorotoluene	ND	4.8
4-Chlorotoluene	ND	4.8
tert-Butylbenzene	ND	4.8
1,2,4-Trimethylbenzene	ND	4.8
sec-Butylbenzene	ND	4.8
para-Isopropyl Toluene	ND	4.8
1,3-Dichlorobenzene	ND	4.8
1,4-Dichlorobenzene	ND	4.8
n-Butylbenzene	ND	4.8
1,2-Dichlorobenzene	ND	4.8
1,2-Dibromo-3-Chloropropane	ND	4.8
1,2,4-Trichlorobenzene	ND	4.8
Hexachlorobutadiene	ND	4.8
Naphthalene	7.5	4.8
1,2,3-Trichlorobenzene	ND	4.8

Surrogate	%REC	Limits
Dibromofluoromethane	97	78-126
1,2-Dichloroethane-d4	109	76-135
Toluene-d8	99	80-120
Bromofluorobenzene	105	80-126

ND = Not Detected
 RL = Reporting Limit

Purgeable Organics by GC/MS

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	RM-N1	Diln Fac:	0.9259
Lab ID:	194375-009	Batch#:	124803
Matrix:	Soil	Sampled:	04/25/07
Units:	ug/Kg	Received:	04/25/07
Basis:	as received	Analyzed:	05/03/07

Analyte	Result	RL
Freon 12	ND	9.3
Chloromethane	ND	9.3
Vinyl Chloride	ND	9.3
Bromomethane	ND	9.3
Chloroethane	ND	9.3
Trichlorofluoromethane	ND	4.6
Acetone	ND	23
Freon 113	ND	4.6
1,1-Dichloroethene	ND	4.6
Methylene Chloride	ND	19
Carbon Disulfide	ND	4.6
MTBE	ND	4.6
trans-1,2-Dichloroethene	ND	4.6
Vinyl Acetate	ND	46
1,1-Dichloroethane	ND	4.6
2-Butanone	ND	9.3
cis-1,2-Dichloroethene	ND	4.6
2,2-Dichloropropane	ND	4.6
Chloroform	ND	4.6
Bromochloromethane	ND	4.6
1,1,1-Trichloroethane	ND	4.6
1,1-Dichloropropene	ND	4.6
Carbon Tetrachloride	ND	4.6
1,2-Dichloroethane	ND	4.6
Benzene	ND	4.6
Trichloroethene	ND	4.6
1,2-Dichloropropane	ND	4.6
Bromodichloromethane	ND	4.6
Dibromomethane	ND	4.6
4-Methyl-2-Pentanone	ND	9.3
cis-1,3-Dichloropropene	ND	4.6
Toluene	ND	4.6
trans-1,3-Dichloropropene	ND	4.6
1,1,2-Trichloroethane	ND	4.6
2-Hexanone	ND	9.3
1,3-Dichloropropane	ND	4.6
Tetrachloroethene	ND	4.6

ND = Not Detected
 RL = Reporting Limit

Purgeable Organics by GC/MS

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	RM-N1	Diln Fac:	0.9259
Lab ID:	194375-009	Batch#:	124803
Matrix:	Soil	Sampled:	04/25/07
Units:	ug/Kg	Received:	04/25/07
Basis:	as received	Analyzed:	05/03/07

Analyte	Result	RL
Dibromochloromethane	ND	4.6
1,2-Dibromoethane	ND	4.6
Chlorobenzene	ND	4.6
1,1,1,2-Tetrachloroethane	ND	4.6
Ethylbenzene	ND	4.6
m,p-Xylenes	ND	4.6
o-Xylene	ND	4.6
Styrene	ND	4.6
Bromoform	ND	4.6
Isopropylbenzene	ND	4.6
1,1,2,2-Tetrachloroethane	ND	4.6
1,2,3-Trichloropropane	ND	4.6
Propylbenzene	ND	4.6
Bromobenzene	ND	4.6
1,3,5-Trimethylbenzene	ND	4.6
2-Chlorotoluene	ND	4.6
4-Chlorotoluene	ND	4.6
tert-Butylbenzene	ND	4.6
1,2,4-Trimethylbenzene	ND	4.6
sec-Butylbenzene	ND	4.6
para-Isopropyl Toluene	ND	4.6
1,3-Dichlorobenzene	ND	4.6
1,4-Dichlorobenzene	ND	4.6
n-Butylbenzene	ND	4.6
1,2-Dichlorobenzene	ND	4.6
1,2-Dibromo-3-Chloropropane	ND	4.6
1,2,4-Trichlorobenzene	ND	4.6
Hexachlorobutadiene	ND	4.6
Naphthalene	24	4.6
1,2,3-Trichlorobenzene	ND	4.6

Surrogate	%REC	Limits
Dibromofluoromethane	97	78-126
1,2-Dichloroethane-d4	83	76-135
Toluene-d8	99	80-120
Bromofluorobenzene	93	80-126

ND = Not Detected
 RL = Reporting Limit

Purgeable Organics by GC/MS

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	RM-N2	Diln Fac:	25.00
Lab ID:	194375-010	Batch#:	124903
Matrix:	Soil	Sampled:	04/25/07
Units:	ug/Kg	Received:	04/25/07
Basis:	as received	Analyzed:	05/07/07

Analyte	Result	RL
Freon 12	ND	250
Chloromethane	ND	250
Vinyl Chloride	ND	250
Bromomethane	ND	250
Chloroethane	ND	250
Trichlorofluoromethane	ND	130
Acetone	ND	630
Freon 113	ND	130
1,1-Dichloroethene	ND	130
Methylene Chloride	ND	500
Carbon Disulfide	ND	130
MTBE	ND	130
trans-1,2-Dichloroethene	ND	130
Vinyl Acetate	ND	1,300
1,1-Dichloroethane	ND	130
2-Butanone	ND	250
cis-1,2-Dichloroethene	ND	130
2,2-Dichloropropane	ND	130
Chloroform	ND	130
Bromochloromethane	ND	130
1,1,1-Trichloroethane	ND	130
1,1-Dichloropropene	ND	130
Carbon Tetrachloride	ND	130
1,2-Dichloroethane	ND	130
Benzene	ND	130
Trichloroethene	ND	130
1,2-Dichloropropane	ND	130
Bromodichloromethane	ND	130
Dibromomethane	ND	130
4-Methyl-2-Pentanone	ND	250
cis-1,3-Dichloropropene	ND	130
Toluene	ND	130
trans-1,3-Dichloropropene	ND	130
1,1,2-Trichloroethane	ND	130
2-Hexanone	ND	250
1,3-Dichloropropane	ND	130
Tetrachloroethene	ND	130

ND = Not Detected
 RL = Reporting Limit

Purgeable Organics by GC/MS

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	RM-N2	Diln Fac:	25.00
Lab ID:	194375-010	Batch#:	124903
Matrix:	Soil	Sampled:	04/25/07
Units:	ug/Kg	Received:	04/25/07
Basis:	as received	Analyzed:	05/07/07

Analyte	Result	RL
Dibromochloromethane	ND	130
1,2-Dibromoethane	ND	130
Chlorobenzene	ND	130
1,1,1,2-Tetrachloroethane	ND	130
Ethylbenzene	ND	130
m,p-Xylenes	ND	130
o-Xylene	ND	130
Styrene	ND	130
Bromoform	ND	130
Isopropylbenzene	ND	130
1,1,2,2-Tetrachloroethane	ND	130
1,2,3-Trichloropropane	ND	130
Propylbenzene	ND	130
Bromobenzene	ND	130
1,3,5-Trimethylbenzene	ND	130
2-Chlorotoluene	ND	130
4-Chlorotoluene	ND	130
tert-Butylbenzene	ND	130
1,2,4-Trimethylbenzene	ND	130
sec-Butylbenzene	ND	130
para-Isopropyl Toluene	ND	130
1,3-Dichlorobenzene	ND	130
1,4-Dichlorobenzene	ND	130
n-Butylbenzene	ND	130
1,2-Dichlorobenzene	ND	130
1,2-Dibromo-3-Chloropropane	ND	130
1,2,4-Trichlorobenzene	ND	130
Hexachlorobutadiene	ND	130
Naphthalene	ND	130
1,2,3-Trichlorobenzene	ND	130

Surrogate	%REC	Limits
Dibromofluoromethane	101	78-126
1,2-Dichloroethane-d4	120	76-135
Toluene-d8	107	80-120
Bromofluorobenzene	107	80-126
Trifluorotoluene (MeOH)	97	58-142

ND = Not Detected
 RL = Reporting Limit

Purgeable Organics by GC/MS

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	RM-N3	Basis:	as received
Lab ID:	194375-011	Sampled:	04/25/07
Matrix:	Soil	Received:	04/25/07
Units:	ug/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
Freon 12	ND	9.3	0.9259	124955	05/08/07
Chloromethane	ND	9.3	0.9259	124955	05/08/07
Vinyl Chloride	ND	9.3	0.9259	124955	05/08/07
Bromomethane	ND	9.3	0.9259	124955	05/08/07
Chloroethane	ND	9.3	0.9259	124955	05/08/07
Trichlorofluoromethane	ND	4.6	0.9259	124955	05/08/07
Acetone	39	23	0.9259	124955	05/08/07
Freon 113	ND	4.6	0.9259	124955	05/08/07
1,1-Dichloroethene	ND	4.6	0.9259	124955	05/08/07
Methylene Chloride	ND	19	0.9259	124955	05/08/07
Carbon Disulfide	ND	4.6	0.9259	124955	05/08/07
MTBE	ND	4.6	0.9259	124955	05/08/07
trans-1,2-Dichloroethene	ND	4.6	0.9259	124955	05/08/07
Vinyl Acetate	ND	46	0.9259	124955	05/08/07
1,1-Dichloroethane	ND	4.6	0.9259	124955	05/08/07
2-Butanone	ND	9.3	0.9259	124955	05/08/07
cis-1,2-Dichloroethene	ND	4.6	0.9259	124955	05/08/07
2,2-Dichloropropane	ND	4.6	0.9259	124955	05/08/07
Chloroform	ND	4.6	0.9259	124955	05/08/07
Bromochloromethane	ND	4.6	0.9259	124955	05/08/07
1,1,1-Trichloroethane	ND	4.6	0.9259	124955	05/08/07
1,1-Dichloropropene	ND	4.6	0.9259	124955	05/08/07
Carbon Tetrachloride	ND	4.6	0.9259	124955	05/08/07
1,2-Dichloroethane	ND	4.6	0.9259	124955	05/08/07
Benzene	ND	4.6	0.9259	124955	05/08/07
Trichloroethene	ND	4.6	0.9259	124955	05/08/07
1,2-Dichloropropane	ND	4.6	0.9259	124955	05/08/07
Bromodichloromethane	ND	4.6	0.9259	124955	05/08/07
Dibromomethane	ND	4.6	0.9259	124955	05/08/07
4-Methyl-2-Pentanone	ND	9.3	0.9259	124955	05/08/07
cis-1,3-Dichloropropene	ND	4.6	0.9259	124955	05/08/07
Toluene	ND	4.6	0.9259	124955	05/08/07
trans-1,3-Dichloropropene	ND	4.6	0.9259	124955	05/08/07
1,1,2-Trichloroethane	ND	4.6	0.9259	124955	05/08/07
2-Hexanone	ND	9.3	0.9259	124955	05/08/07
1,3-Dichloropropane	ND	4.6	0.9259	124955	05/08/07
Tetrachloroethene	ND	4.6	0.9259	124955	05/08/07
Dibromochloromethane	ND	4.6	0.9259	124955	05/08/07

ND = Not Detected
 RL = Reporting Limit

Purgeable Organics by GC/MS

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	RM-N3	Basis:	as received
Lab ID:	194375-011	Sampled:	04/25/07
Matrix:	Soil	Received:	04/25/07
Units:	ug/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
1,2-Dibromoethane	ND	4.6	0.9259	124955	05/08/07
Chlorobenzene	ND	4.6	0.9259	124955	05/08/07
1,1,1,2-Tetrachloroethane	ND	4.6	0.9259	124955	05/08/07
Ethylbenzene	ND	4.6	0.9259	124955	05/08/07
m,p-Xylenes	ND	4.6	0.9259	124955	05/08/07
o-Xylene	ND	4.6	0.9259	124955	05/08/07
Styrene	ND	4.6	0.9259	124955	05/08/07
Bromoform	ND	4.6	0.9259	124955	05/08/07
Isopropylbenzene	ND	4.6	0.9259	124955	05/08/07
1,1,2,2-Tetrachloroethane	ND	4.6	0.9259	124955	05/08/07
1,2,3-Trichloropropane	ND	4.6	0.9259	124955	05/08/07
Propylbenzene	ND	4.6	0.9259	124955	05/08/07
Bromobenzene	ND	4.6	0.9259	124955	05/08/07
1,3,5-Trimethylbenzene	ND	4.6	0.9259	124955	05/08/07
2-Chlorotoluene	ND	4.6	0.9259	124955	05/08/07
4-Chlorotoluene	ND	4.6	0.9259	124955	05/08/07
tert-Butylbenzene	ND	4.6	0.9259	124955	05/08/07
1,2,4-Trimethylbenzene	ND	4.6	0.9259	124955	05/08/07
sec-Butylbenzene	ND	4.6	0.9259	124955	05/08/07
para-Isopropyl Toluene	ND	4.6	0.9259	124955	05/08/07
1,3-Dichlorobenzene	ND	4.6	0.9259	124955	05/08/07
1,4-Dichlorobenzene	ND	4.6	0.9259	124955	05/08/07
n-Butylbenzene	ND	4.6	0.9259	124955	05/08/07
1,2-Dichlorobenzene	ND	4.6	0.9259	124955	05/08/07
1,2-Dibromo-3-Chloropropane	ND	4.6	0.9259	124955	05/08/07
1,2,4-Trichlorobenzene	ND	4.6	0.9259	124955	05/08/07
Hexachlorobutadiene	ND	4.6	0.9259	124955	05/08/07
Naphthalene	ND	4.6	0.9259	124955	05/08/07
1,2,3-Trichlorobenzene	ND	4.6	0.9259	124955	05/08/07

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	92	78-126	0.9259	124955	05/08/07
1,2-Dichloroethane-d4	96	76-135	0.9259	124955	05/08/07
Toluene-d8	97	80-120	0.9259	124955	05/08/07
Bromofluorobenzene	106	80-126	0.9259	124955	05/08/07
Trifluorotoluene (MeOH)	96	58-142	25.00	124903	05/07/07

ND = Not Detected
 RL = Reporting Limit

Purgeable Organics by GC/MS

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	RM-E1	Diln Fac:	1.000
Lab ID:	194375-012	Batch#:	124955
Matrix:	Soil	Sampled:	04/25/07
Units:	ug/Kg	Received:	04/25/07
Basis:	as received	Analyzed:	05/08/07

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	26	25
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND = Not Detected
 RL = Reporting Limit

Purgeable Organics by GC/MS

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	RM-E1	Diln Fac:	1.000
Lab ID:	194375-012	Batch#:	124955
Matrix:	Soil	Sampled:	04/25/07
Units:	ug/Kg	Received:	04/25/07
Basis:	as received	Analyzed:	05/08/07

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	95	78-126
1,2-Dichloroethane-d4	101	76-135
Toluene-d8	97	80-120
Bromofluorobenzene	108	80-126

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	RM-W1	Diln Fac:	0.9615
Lab ID:	194375-013	Batch#:	124955
Matrix:	Soil	Sampled:	04/25/07
Units:	ug/Kg	Received:	04/25/07
Basis:	as received	Analyzed:	05/08/07

Analyte	Result	RL
Freon 12	ND	9.6
Chloromethane	ND	9.6
Vinyl Chloride	ND	9.6
Bromomethane	ND	9.6
Chloroethane	ND	9.6
Trichlorofluoromethane	ND	4.8
Acetone	31	24
Freon 113	ND	4.8
1,1-Dichloroethene	ND	4.8
Methylene Chloride	ND	19
Carbon Disulfide	ND	4.8
MTBE	ND	4.8
trans-1,2-Dichloroethene	ND	4.8
Vinyl Acetate	ND	48
1,1-Dichloroethane	ND	4.8
2-Butanone	ND	9.6
cis-1,2-Dichloroethene	ND	4.8
2,2-Dichloropropane	ND	4.8
Chloroform	ND	4.8
Bromochloromethane	ND	4.8
1,1,1-Trichloroethane	ND	4.8
1,1-Dichloropropene	ND	4.8
Carbon Tetrachloride	ND	4.8
1,2-Dichloroethane	ND	4.8
Benzene	ND	4.8
Trichloroethene	ND	4.8
1,2-Dichloropropane	ND	4.8
Bromodichloromethane	ND	4.8
Dibromomethane	ND	4.8
4-Methyl-2-Pentanone	ND	9.6
cis-1,3-Dichloropropene	ND	4.8
Toluene	ND	4.8
trans-1,3-Dichloropropene	ND	4.8
1,1,2-Trichloroethane	ND	4.8
2-Hexanone	ND	9.6
1,3-Dichloropropane	ND	4.8
Tetrachloroethene	ND	4.8

ND = Not Detected
 RL = Reporting Limit

Purgeable Organics by GC/MS

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	RM-W1	Diln Fac:	0.9615
Lab ID:	194375-013	Batch#:	124955
Matrix:	Soil	Sampled:	04/25/07
Units:	ug/Kg	Received:	04/25/07
Basis:	as received	Analyzed:	05/08/07

Analyte	Result	RL
Dibromochloromethane	ND	4.8
1,2-Dibromoethane	ND	4.8
Chlorobenzene	ND	4.8
1,1,1,2-Tetrachloroethane	ND	4.8
Ethylbenzene	ND	4.8
m,p-Xylenes	ND	4.8
o-Xylene	ND	4.8
Styrene	ND	4.8
Bromoform	ND	4.8
Isopropylbenzene	ND	4.8
1,1,2,2-Tetrachloroethane	ND	4.8
1,2,3-Trichloropropane	ND	4.8
Propylbenzene	ND	4.8
Bromobenzene	ND	4.8
1,3,5-Trimethylbenzene	ND	4.8
2-Chlorotoluene	ND	4.8
4-Chlorotoluene	ND	4.8
tert-Butylbenzene	ND	4.8
1,2,4-Trimethylbenzene	ND	4.8
sec-Butylbenzene	ND	4.8
para-Isopropyl Toluene	ND	4.8
1,3-Dichlorobenzene	ND	4.8
1,4-Dichlorobenzene	ND	4.8
n-Butylbenzene	ND	4.8
1,2-Dichlorobenzene	ND	4.8
1,2-Dibromo-3-Chloropropane	ND	4.8
1,2,4-Trichlorobenzene	ND	4.8
Hexachlorobutadiene	ND	4.8
Naphthalene	ND	4.8
1,2,3-Trichlorobenzene	ND	4.8

Surrogate	%REC	Limits
Dibromofluoromethane	99	78-126
1,2-Dichloroethane-d4	109	76-135
Toluene-d8	99	80-120
Bromofluorobenzene	112	80-126

ND = Not Detected
 RL = Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	LCS	Basis:	as received
Lab ID:	QC386211	Diln Fac:	1.000
Matrix:	Soil	Batch#:	124803
Units:	ug/Kg	Analyzed:	05/03/07

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	24.43	98	76-132
Benzene	25.00	23.33	93	80-120
Trichloroethene	25.00	24.29	97	80-120
Toluene	25.00	23.99	96	80-120
Chlorobenzene	25.00	23.44	94	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	105	78-126
1,2-Dichloroethane-d4	82	76-135
Toluene-d8	98	80-120
Bromofluorobenzene	82	80-126

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC386212	Diln Fac:	1.000
Matrix:	Soil	Batch#:	124803
Units:	ug/Kg	Analyzed:	05/03/07

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	25
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND = Not Detected
 RL = Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC386212	Diln Fac:	1.000
Matrix:	Soil	Batch#:	124803
Units:	ug/Kg	Analyzed:	05/03/07

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	88	78-126
1,2-Dichloroethane-d4	81	76-135
Toluene-d8	98	80-120
Bromofluorobenzene	89	80-126

ND = Not Detected
 RL = Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	LCS	Basis:	as received
Lab ID:	QC386217	Diln Fac:	1.000
Matrix:	Soil	Batch#:	124805
Units:	ug/Kg	Analyzed:	05/03/07

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	28.96	116	76-132
Benzene	25.00	26.96	108	80-120
Trichloroethene	25.00	27.98	112	80-120
Toluene	25.00	28.69	115	80-120
Chlorobenzene	25.00	26.00	104	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	103	78-126
1,2-Dichloroethane-d4	98	76-135
Toluene-d8	105	80-120
Bromofluorobenzene	97	80-126

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC386218	Diln Fac:	1.000
Matrix:	Soil	Batch#:	124805
Units:	ug/Kg	Analyzed:	05/03/07

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	25
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND = Not Detected
 RL = Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC386218	Diln Fac:	1.000
Matrix:	Soil	Batch#:	124805
Units:	ug/Kg	Analyzed:	05/03/07

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	102	78-126
1,2-Dichloroethane-d4	93	76-135
Toluene-d8	102	80-120
Bromofluorobenzene	105	80-126

ND = Not Detected
 RL = Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	RM-B3	Diln Fac:	0.9434
MSS Lab ID:	194375-004	Batch#:	124805
Matrix:	Soil	Sampled:	04/25/07
Units:	ug/Kg	Received:	04/25/07
Basis:	as received	Analyzed:	05/03/07

Type: MS Lab ID: QC386263

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.2943	47.17	56.20	119	72-138
Benzene	<0.2136	47.17	50.30	107	61-122
Trichloroethene	<0.2327	47.17	52.28	111	62-134
Toluene	<0.2392	47.17	53.92	114	57-124
Chlorobenzene	<0.2232	47.17	48.08	102	55-120

Surrogate	%REC	Limits
Dibromofluoromethane	107	78-126
1,2-Dichloroethane-d4	97	76-135
Toluene-d8	106	80-120
Bromofluorobenzene	115	80-126

Type: MSD Lab ID: QC386264

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	47.17	54.49	116	72-138	3	20
Benzene	47.17	47.25	100	61-122	6	20
Trichloroethene	47.17	49.99	106	62-134	4	20
Toluene	47.17	49.38	105	57-124	9	21
Chlorobenzene	47.17	46.22	98	55-120	4	22

Surrogate	%REC	Limits
Dibromofluoromethane	108	78-126
1,2-Dichloroethane-d4	98	76-135
Toluene-d8	105	80-120
Bromofluorobenzene	116	80-126

RPD= Relative Percent Difference

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	LCS	Basis:	as received
Lab ID:	QC386606	Diln Fac:	1.000
Matrix:	Soil	Batch#:	124903
Units:	ug/Kg	Analyzed:	05/07/07

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	23.45	94	76-132
Benzene	25.00	24.40	98	80-120
Trichloroethene	25.00	23.58	94	80-120
Toluene	25.00	24.45	98	80-120
Chlorobenzene	25.00	25.02	100	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	104	78-126
1,2-Dichloroethane-d4	110	76-135
Toluene-d8	101	80-120
Bromofluorobenzene	103	80-126

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC386607	Diln Fac:	1.000
Matrix:	Soil	Batch#:	124903
Units:	ug/Kg	Analyzed:	05/07/07

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	25
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND = Not Detected
 RL = Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC386607	Diln Fac:	1.000
Matrix:	Soil	Batch#:	124903
Units:	ug/Kg	Analyzed:	05/07/07

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	106	78-126
1,2-Dichloroethane-d4	129	76-135
Toluene-d8	103	80-120
Bromofluorobenzene	116	80-126

ND = Not Detected
 RL = Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	LCS	Basis:	as received
Lab ID:	QC386821	Diln Fac:	1.000
Matrix:	Soil	Batch#:	124955
Units:	ug/Kg	Analyzed:	05/08/07

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	26.87	107	76-132
Benzene	25.00	25.45	102	80-120
Trichloroethene	25.00	25.23	101	80-120
Toluene	25.00	25.34	101	80-120
Chlorobenzene	25.00	27.50	110	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	100	78-126
1,2-Dichloroethane-d4	97	76-135
Toluene-d8	97	80-120
Bromofluorobenzene	104	80-126

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC386822	Diln Fac:	1.000
Matrix:	Soil	Batch#:	124955
Units:	ug/Kg	Analyzed:	05/08/07

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	25
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND = Not Detected
 RL = Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC386822	Diln Fac:	1.000
Matrix:	Soil	Batch#:	124955
Units:	ug/Kg	Analyzed:	05/08/07

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	96	78-126
1,2-Dichloroethane-d4	106	76-135
Toluene-d8	99	80-120
Bromofluorobenzene	111	80-126

ND = Not Detected
 RL = Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	RM-S3	Diln Fac:	0.9615
MSS Lab ID:	194375-008	Batch#:	124955
Matrix:	Soil	Sampled:	04/25/07
Units:	ug/Kg	Received:	04/25/07
Basis:	as received	Analyzed:	05/08/07

Type: MS Lab ID: QC386875

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<1.911	48.08	47.64	99	72-138
Benzene	<0.8492	48.08	46.23	96	61-122
Trichloroethene	<1.051	48.08	45.17	94	62-134
Toluene	<1.110	48.08	45.13	94	57-124
Chlorobenzene	<1.271	48.08	43.22	90	55-120

Surrogate	%REC	Limits
Dibromofluoromethane	104	78-126
1,2-Dichloroethane-d4	108	76-135
Toluene-d8	101	80-120
Bromofluorobenzene	105	80-126

Type: MSD Lab ID: QC386876

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	48.08	46.11	96	72-138	3	20
Benzene	48.08	40.81	85	61-122	12	20
Trichloroethene	48.08	38.75	81	62-134	15	20
Toluene	48.08	38.52	80	57-124	16	21
Chlorobenzene	48.08	40.13	83	55-120	7	22

Surrogate	%REC	Limits
Dibromofluoromethane	93	78-126
1,2-Dichloroethane-d4	85	76-135
Toluene-d8	93	80-120
Bromofluorobenzene	105	80-126

RPD= Relative Percent Difference

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	LCS	Basis:	as received
Lab ID:	QC386975	Diln Fac:	1.000
Matrix:	Soil	Batch#:	124991
Units:	ug/Kg	Analyzed:	05/09/07

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	27.20	109	76-132
Benzene	25.00	26.07	104	80-120
Trichloroethene	25.00	24.45	98	80-120
Toluene	25.00	24.60	98	80-120
Chlorobenzene	25.00	27.92	112	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	96	78-126
1,2-Dichloroethane-d4	88	76-135
Toluene-d8	92	80-120
Bromofluorobenzene	101	80-126

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC386976	Diln Fac:	1.000
Matrix:	Soil	Batch#:	124991
Units:	ug/Kg	Analyzed:	05/09/07

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	25
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC386976	Diln Fac:	1.000
Matrix:	Soil	Batch#:	124991
Units:	ug/Kg	Analyzed:	05/09/07

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	95	78-126
1,2-Dichloroethane-d4	100	76-135
Toluene-d8	97	80-120
Bromofluorobenzene	108	80-126

ND= Not Detected
 RL= Reporting Limit

California Title 26 Metals

Lab #:	194375	Project#:	STANDARD
Client:	R&M Environmental	Location:	205/209 Brush St. Oakland
Field ID:	RM-B1	Diln Fac:	1.000
Lab ID:	194375-002	Sampled:	04/25/07
Matrix:	Soil	Received:	04/25/07
Units:	mg/Kg	Prepared:	04/27/07
Basis:	as received		

Analyte	Result	RL	Batch#	Analyzed	Prep	Analysis
Antimony	ND	0.50	124646	04/30/07	EPA 3050B	EPA 6010B
Arsenic	3.8	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Barium	26	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Beryllium	0.25	0.10	124646	04/30/07	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Chromium	57	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Cobalt	5.6	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Copper	20	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Lead	4.2	0.15	124646	04/30/07	EPA 3050B	EPA 6010B
Mercury	0.022	0.020	124626	04/27/07	METHOD	EPA 7471A
Molybdenum	1.2	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Nickel	37	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Selenium	ND	0.50	124646	04/30/07	EPA 3050B	EPA 6010B
Silver	ND	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Thallium	ND	0.50	124646	04/30/07	EPA 3050B	EPA 6010B
Vanadium	47	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Zinc	42	1.0	124646	04/30/07	EPA 3050B	EPA 6010B

ND = Not Detected
 RL = Reporting Limit

California Title 26 Metals

Lab #:	194375	Project#:	STANDARD
Client:	R&M Environmental	Location:	205/209 Brush St. Oakland
Field ID:	RM-B2	Diln Fac:	1.000
Lab ID:	194375-003	Sampled:	04/25/07
Matrix:	Soil	Received:	04/25/07
Units:	mg/Kg	Prepared:	04/27/07
Basis:	as received		

Analyte	Result	RL	Batch#	Analyzed	Prep	Analysis
Antimony	ND	0.50	124646	04/30/07	EPA 3050B	EPA 6010B
Arsenic	1.5	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Barium	53	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Beryllium	0.15	0.10	124646	04/30/07	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Chromium	25	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Cobalt	3.1	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Copper	5.9	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Lead	1.5	0.15	124646	04/30/07	EPA 3050B	EPA 6010B
Mercury	0.041	0.020	124626	04/27/07	METHOD	EPA 7471A
Molybdenum	ND	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Nickel	14	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Selenium	ND	0.50	124646	04/30/07	EPA 3050B	EPA 6010B
Silver	ND	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Thallium	ND	0.50	124646	04/30/07	EPA 3050B	EPA 6010B
Vanadium	20	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Zinc	14	1.0	124646	04/30/07	EPA 3050B	EPA 6010B

ND = Not Detected
 RL = Reporting Limit

California Title 26 Metals

Lab #:	194375	Project#:	STANDARD
Client:	R&M Environmental	Location:	205/209 Brush St. Oakland
Field ID:	RM-B3	Diln Fac:	1.000
Lab ID:	194375-004	Sampled:	04/25/07
Matrix:	Soil	Received:	04/25/07
Units:	mg/Kg	Prepared:	04/27/07
Basis:	as received		

Analyte	Result	RL	Batch#	Analyzed	Prep	Analysis
Antimony	ND	0.50	124646	04/30/07	EPA 3050B	EPA 6010B
Arsenic	1.9	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Barium	51	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Beryllium	0.21	0.10	124646	04/30/07	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Chromium	33	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Cobalt	3.7	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Copper	7.9	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Lead	1.5	0.15	124646	04/30/07	EPA 3050B	EPA 6010B
Mercury	0.13	0.020	124626	04/27/07	METHOD	EPA 7471A
Molybdenum	ND	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Nickel	23	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Selenium	ND	0.50	124646	04/30/07	EPA 3050B	EPA 6010B
Silver	ND	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Thallium	ND	0.50	124646	04/30/07	EPA 3050B	EPA 6010B
Vanadium	26	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Zinc	18	1.0	124646	04/30/07	EPA 3050B	EPA 6010B

ND = Not Detected
 RL = Reporting Limit

California Title 26 Metals

Lab #:	194375	Project#:	STANDARD
Client:	R&M Environmental	Location:	205/209 Brush St. Oakland
Field ID:	RM-B4	Diln Fac:	1.000
Lab ID:	194375-005	Sampled:	04/25/07
Matrix:	Soil	Received:	04/25/07
Units:	mg/Kg	Prepared:	04/27/07
Basis:	as received		

Analyte	Result	RL	Batch#	Analyzed	Prep	Analysis
Antimony	ND	0.50	124646	04/30/07	EPA 3050B	EPA 6010B
Arsenic	2.9	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Barium	59	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Beryllium	0.23	0.10	124646	04/30/07	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Chromium	33	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Cobalt	6.3	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Copper	8.2	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Lead	1.8	0.15	124646	04/30/07	EPA 3050B	EPA 6010B
Mercury	0.024	0.020	124626	04/27/07	METHOD	EPA 7471A
Molybdenum	ND	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Nickel	26	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Selenium	ND	0.50	124646	04/30/07	EPA 3050B	EPA 6010B
Silver	ND	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Thallium	ND	0.50	124646	04/30/07	EPA 3050B	EPA 6010B
Vanadium	27	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Zinc	18	1.0	124646	04/30/07	EPA 3050B	EPA 6010B

ND = Not Detected
 RL = Reporting Limit

California Title 26 Metals

Lab #:	194375	Project#:	STANDARD
Client:	R&M Environmental	Location:	205/209 Brush St. Oakland
Field ID:	RM-S1	Diln Fac:	1.000
Lab ID:	194375-006	Sampled:	04/25/07
Matrix:	Soil	Received:	04/25/07
Units:	mg/Kg	Prepared:	04/27/07
Basis:	as received		

Analyte	Result	RL	Batch#	Analyzed	Prep	Analysis
Antimony	ND	0.50	124646	04/30/07	EPA 3050B	EPA 6010B
Arsenic	2.3	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Barium	58	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Beryllium	0.19	0.10	124646	04/30/07	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Chromium	35	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Cobalt	4.0	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Copper	7.4	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Lead	1.7	0.15	124646	04/30/07	EPA 3050B	EPA 6010B
Mercury	0.033	0.020	124626	04/27/07	METHOD	EPA 7471A
Molybdenum	ND	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Nickel	21	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Selenium	ND	0.50	124646	04/30/07	EPA 3050B	EPA 6010B
Silver	ND	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Thallium	ND	0.50	124646	04/30/07	EPA 3050B	EPA 6010B
Vanadium	24	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Zinc	17	1.0	124646	04/30/07	EPA 3050B	EPA 6010B

ND = Not Detected
 RL = Reporting Limit

California Title 26 Metals

Lab #:	194375	Project#:	STANDARD
Client:	R&M Environmental	Location:	205/209 Brush St. Oakland
Field ID:	RM-S2	Diln Fac:	1.000
Lab ID:	194375-007	Sampled:	04/25/07
Matrix:	Soil	Received:	04/25/07
Units:	mg/Kg	Prepared:	04/27/07
Basis:	as received		

Analyte	Result	RL	Batch#	Analyzed	Prep	Analysis
Antimony	ND	0.50	124646	04/30/07	EPA 3050B	EPA 6010B
Arsenic	2.3	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Barium	60	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Beryllium	0.18	0.10	124646	04/30/07	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Chromium	31	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Cobalt	3.7	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Copper	24	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Lead	14	0.15	124646	04/30/07	EPA 3050B	EPA 6010B
Mercury	0.19	0.020	124626	04/27/07	METHOD	EPA 7471A
Molybdenum	ND	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Nickel	18	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Selenium	ND	0.50	124646	04/30/07	EPA 3050B	EPA 6010B
Silver	ND	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Thallium	ND	0.50	124646	04/30/07	EPA 3050B	EPA 6010B
Vanadium	22	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Zinc	31	1.0	124646	04/30/07	EPA 3050B	EPA 6010B

ND = Not Detected
 RL = Reporting Limit

California Title 26 Metals

Lab #:	194375	Project#:	STANDARD
Client:	R&M Environmental	Location:	205/209 Brush St. Oakland
Field ID:	RM-S3	Diln Fac:	1.000
Lab ID:	194375-008	Sampled:	04/25/07
Matrix:	Soil	Received:	04/25/07
Units:	mg/Kg	Prepared:	04/27/07
Basis:	as received		

Analyte	Result	RL	Batch#	Analyzed	Prep	Analysis
Antimony	ND	0.50	124646	04/30/07	EPA 3050B	EPA 6010B
Arsenic	1.7	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Barium	75	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Beryllium	0.15	0.10	124646	04/30/07	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Chromium	26	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Cobalt	3.2	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Copper	6.3	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Lead	4.2	0.15	124646	04/30/07	EPA 3050B	EPA 6010B
Mercury	0.029	0.021	124626	04/27/07	METHOD	EPA 7471A
Molybdenum	ND	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Nickel	15	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Selenium	ND	0.50	124646	04/30/07	EPA 3050B	EPA 6010B
Silver	ND	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Thallium	ND	0.50	124646	04/30/07	EPA 3050B	EPA 6010B
Vanadium	19	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Zinc	18	1.0	124646	04/30/07	EPA 3050B	EPA 6010B

ND = Not Detected
 RL = Reporting Limit

California Title 26 Metals

Lab #:	194375	Project#:	STANDARD
Client:	R&M Environmental	Location:	205/209 Brush St. Oakland
Field ID:	RM-N1	Diln Fac:	1.000
Lab ID:	194375-009	Sampled:	04/25/07
Matrix:	Soil	Received:	04/25/07
Units:	mg/Kg	Prepared:	04/27/07
Basis:	as received		

Analyte	Result	RL	Batch#	Analyzed	Prep	Analysis
Antimony	ND	0.50	124646	04/30/07	EPA 3050B	EPA 6010B
Arsenic	1.8	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Barium	61	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Beryllium	0.17	0.10	124646	04/30/07	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Chromium	28	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Cobalt	3.3	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Copper	6.3	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Lead	2.0	0.15	124646	04/30/07	EPA 3050B	EPA 6010B
Mercury	ND	0.020	124626	04/27/07	METHOD	EPA 7471A
Molybdenum	ND	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Nickel	16	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Selenium	ND	0.50	124646	04/30/07	EPA 3050B	EPA 6010B
Silver	ND	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Thallium	ND	0.50	124646	04/30/07	EPA 3050B	EPA 6010B
Vanadium	20	0.25	124646	04/30/07	EPA 3050B	EPA 6010B
Zinc	16	1.0	124646	04/30/07	EPA 3050B	EPA 6010B

ND = Not Detected
 RL = Reporting Limit

California Title 26 Metals

Lab #:	194375	Project#:	STANDARD
Client:	R&M Environmental	Location:	205/209 Brush St. Oakland
Field ID:	RM-N2	Basis:	as received
Lab ID:	194375-010	Diln Fac:	1.000
Matrix:	Soil	Sampled:	04/25/07
Units:	mg/Kg	Received:	04/25/07

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	0.50	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Arsenic	1.3	0.25	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Barium	45	0.25	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Beryllium	0.14	0.10	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Chromium	24	0.25	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Cobalt	2.9	0.25	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Copper	5.0	0.25	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Lead	1.9	0.15	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Mercury	ND	0.021	124626	04/27/07	04/27/07	METHOD	EPA 7471A
Molybdenum	ND	0.25	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Nickel	14	0.25	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Selenium	ND	0.50	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Silver	ND	0.25	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Thallium	ND	0.50	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Vanadium	18	0.25	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Zinc	14	1.0	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B

ND = Not Detected
 RL = Reporting Limit

California Title 26 Metals

Lab #:	194375	Project#:	STANDARD
Client:	R&M Environmental	Location:	205/209 Brush St. Oakland
Field ID:	RM-N3	Basis:	as received
Lab ID:	194375-011	Diln Fac:	1.000
Matrix:	Soil	Sampled:	04/25/07
Units:	mg/Kg	Received:	04/25/07

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	0.60	0.50	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Arsenic	1.0	0.25	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Barium	50	0.25	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Beryllium	0.15	0.10	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Chromium	26	0.25	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Cobalt	3.2	0.25	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Copper	5.2	0.25	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Lead	2.0	0.15	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Mercury	ND	0.020	124626	04/27/07	04/27/07	METHOD	EPA 7471A
Molybdenum	ND	0.25	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Nickel	15	0.25	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Selenium	ND	0.50	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Silver	ND	0.25	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Thallium	ND	0.50	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Vanadium	19	0.25	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Zinc	14	1.0	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B

ND = Not Detected
 RL = Reporting Limit

California Title 26 Metals

Lab #:	194375	Project#:	STANDARD
Client:	R&M Environmental	Location:	205/209 Brush St. Oakland
Field ID:	RM-E1	Basis:	as received
Lab ID:	194375-012	Diln Fac:	1.000
Matrix:	Soil	Sampled:	04/25/07
Units:	mg/Kg	Received:	04/25/07

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	0.50	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Arsenic	1.3	0.25	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Barium	59	0.25	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Beryllium	0.17	0.10	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Chromium	25	0.25	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Cobalt	3.2	0.25	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Copper	5.9	0.25	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Lead	5.8	0.15	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Mercury	0.058	0.020	124626	04/27/07	04/27/07	METHOD	EPA 7471A
Molybdenum	ND	0.25	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Nickel	12	0.25	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Selenium	ND	0.50	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Silver	ND	0.25	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Thallium	ND	0.50	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Vanadium	18	0.25	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Zinc	16	1.0	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B

ND = Not Detected
 RL = Reporting Limit

California Title 26 Metals

Lab #:	194375	Project#:	STANDARD
Client:	R&M Environmental	Location:	205/209 Brush St. Oakland
Field ID:	RM-W1	Basis:	as received
Lab ID:	194375-013	Diln Fac:	1.000
Matrix:	Soil	Sampled:	04/25/07
Units:	mg/Kg	Received:	04/25/07

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	0.50	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Arsenic	2.2	0.25	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Barium	71	0.25	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Beryllium	0.21	0.10	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Chromium	24	0.25	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Cobalt	3.9	0.25	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Copper	8.5	0.25	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Lead	35	0.15	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Mercury	0.10	0.020	124626	04/27/07	04/27/07	METHOD	EPA 7471A
Molybdenum	0.28	0.25	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Nickel	15	0.25	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Selenium	ND	0.50	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Silver	ND	0.25	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Thallium	ND	0.50	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Vanadium	17	0.25	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B
Zinc	26	1.0	124690	04/30/07	05/01/07	EPA 3050B	EPA 6010B

ND = Not Detected
 RL = Reporting Limit

Batch QC Report

California Title 26 Metals			
Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	METHOD
Project#:	STANDARD	Analysis:	EPA 7471A
Analyte:	Mercury	Basis:	as received
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC385488	Batch#:	124626
Matrix:	Soil	Prepared:	04/27/07
Units:	mg/Kg	Analyzed:	04/27/07

Result	RL
ND	0.020

ND = Not Detected
RL = Reporting Limit

Batch QC Report

California Title 26 Metals			
Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	METHOD
Project#:	STANDARD	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Matrix:	Soil	Batch#:	124626
Units:	mg/Kg	Prepared:	04/27/07
Basis:	as received	Analyzed:	04/27/07

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC385489	0.5000	0.5510	110	80-120		
BSD	QC385490	0.5000	0.5330	107	80-120	3	20

RPD= Relative Percent Difference

Batch QC Report

California Title 26 Metals

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	METHOD
Project#:	STANDARD	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	124626
MSS Lab ID:	194308-007	Sampled:	04/23/07
Matrix:	Soil	Received:	04/23/07
Units:	mg/Kg	Prepared:	04/27/07
Basis:	as received	Analyzed:	04/27/07

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC385491	0.06690	0.4808	0.5721	105	67-143		
MSD	QC385492		0.4902	0.5814	105	67-143	0	23

RPD= Relative Percent Difference

Batch QC Report

California Title 26 Metals			
Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 3050B
Project#:	STANDARD	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC385576	Batch#:	124646
Matrix:	Soil	Prepared:	04/27/07
Units:	mg/Kg	Analyzed:	04/30/07
Basis:	as received		

Analyte	Result	RL
Antimony	ND	0.50
Arsenic	ND	0.25
Barium	ND	0.25
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.25
Cobalt	ND	0.25
Copper	ND	0.25
Lead	ND	0.15
Molybdenum	ND	0.25
Nickel	ND	0.25
Selenium	ND	0.50
Silver	ND	0.25
Thallium	ND	0.50
Vanadium	ND	0.25
Zinc	ND	1.0

ND = Not Detected
 RL = Reporting Limit

Batch QC Report

California Title 26 Metals			
Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 3050B
Project#:	STANDARD	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	124646
Units:	mg/Kg	Prepared:	04/27/07
Basis:	as received	Analyzed:	04/30/07
Diln Fac:	1.000		

Type: BS Lab ID: QC385577

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	96.69	97	80-120
Arsenic	50.00	48.41	97	80-120
Barium	100.0	100.5	100	80-120
Beryllium	2.500	2.545	102	80-120
Cadmium	10.00	10.07	101	80-120
Chromium	100.0	100.8	101	80-120
Cobalt	25.00	24.35	97	80-120
Copper	12.50	12.14	97	80-120
Lead	100.0	96.01	96	80-120
Molybdenum	20.00	20.47	102	80-120
Nickel	25.00	24.13	97	80-120
Selenium	50.00	47.75	95	80-120
Silver	10.00	9.643	96	80-120
Thallium	50.00	49.15	98	80-120
Vanadium	25.00	25.03	100	80-120
Zinc	25.00	25.22	101	80-120

Type: BSD Lab ID: QC385578

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	96.42	96	80-120	0	20
Arsenic	50.00	49.44	99	80-120	2	20
Barium	100.0	99.05	99	80-120	1	20
Beryllium	2.500	2.526	101	80-120	1	20
Cadmium	10.00	10.23	102	80-120	2	20
Chromium	100.0	99.81	100	80-120	1	20
Cobalt	25.00	24.39	98	80-120	0	20
Copper	12.50	12.03	96	80-120	1	20
Lead	100.0	96.31	96	80-120	0	20
Molybdenum	20.00	20.56	103	80-120	0	20
Nickel	25.00	24.24	97	80-120	0	20
Selenium	50.00	48.22	96	80-120	1	20
Silver	10.00	9.469	95	80-120	2	20
Thallium	50.00	48.78	98	80-120	1	20
Vanadium	25.00	24.75	99	80-120	1	20
Zinc	25.00	24.36	97	80-120	3	20

Batch QC Report

California Title 26 Metals			
Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 3050B
Project#:	STANDARD	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	124646
MSS Lab ID:	194408-004	Sampled:	04/26/07
Matrix:	Soil	Received:	04/26/07
Units:	mg/Kg	Prepared:	04/27/07
Basis:	as received	Analyzed:	04/30/07
Diln Fac:	1.000		

Type: MS Lab ID: QC385579

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	0.2474	96.15	38.84	40	1-129
Arsenic	7.296	48.08	48.17	85	72-120
Barium	394.5	96.15	475.0	84 NM	49-138
Beryllium	0.5601	2.404	2.641	87	80-120
Cadmium	<0.02303	9.615	8.257	86	72-120
Chromium	53.16	96.15	179.2	131 *	63-122
Cobalt	16.28	24.04	36.15	83	61-120
Copper	46.67	12.02	57.23	88	59-137
Lead	8.403	96.15	86.52	81	55-122
Molybdenum	0.5431	19.23	16.38	82	66-120
Nickel	82.39	24.04	113.3	128	45-139
Selenium	<0.04532	48.08	36.90	77	73-120
Silver	<0.05497	9.615	8.511	89	53-120
Thallium	<0.08232	48.08	38.02	79	64-120
Vanadium	45.58	24.04	63.75	76	55-139
Zinc	62.56	24.04	79.73	71	49-140

Type: MSD Lab ID: QC385580

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	94.34	38.49	41	1-129	1	23
Arsenic	47.17	46.54	83	72-120	2	20
Barium	94.34	450.4	59 NM	49-138	5	23
Beryllium	2.358	2.661	89	80-120	2	20
Cadmium	9.434	8.088	86	72-120	0	20
Chromium	94.34	136.9	89	63-122	26 *	20
Cobalt	23.58	35.10	80	61-120	2	23
Copper	11.79	54.66	68	59-137	4	20
Lead	94.34	85.64	82	55-122	1	26
Molybdenum	18.87	15.97	82	66-120	1	20
Nickel	23.58	99.73	74	45-139	12	26
Selenium	47.17	36.07	76	73-120	0	20
Silver	9.434	8.231	87	53-120	1	22
Thallium	47.17	38.07	81	64-120	2	20
Vanadium	23.58	59.21	58	55-139	7	20
Zinc	23.58	82.33	84	49-140	4	23

*= Value outside of QC limits; see narrative
 NM= Not Meaningful: Sample concentration > 4X spike concentration
 RPD= Relative Percent Difference

Batch QC Report

California Title 26 Metals

Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 3050B
Project#:	STANDARD	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC385763	Batch#:	124690
Matrix:	Soil	Prepared:	04/30/07
Units:	mg/Kg	Analyzed:	05/01/07
Basis:	as received		

Analyte	Result	RL
Antimony	ND	0.50
Arsenic	ND	0.25
Barium	ND	0.25
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.25
Cobalt	ND	0.25
Copper	ND	0.25
Lead	ND	0.15
Molybdenum	ND	0.25
Nickel	ND	0.25
Selenium	ND	0.50
Silver	ND	0.25
Thallium	ND	0.50
Vanadium	ND	0.25
Zinc	ND	1.0

ND = Not Detected
 RL = Reporting Limit

Batch QC Report

California Title 26 Metals			
Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 3050B
Project#:	STANDARD	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	124690
Units:	mg/Kg	Prepared:	04/30/07
Basis:	as received	Analyzed:	05/01/07
Diln Fac:	1.000		

Type: BS Lab ID: QC385764

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	97.70	98	80-120
Arsenic	50.00	50.48	101	80-120
Barium	100.0	97.66	98	80-120
Beryllium	2.500	2.660	106	80-120
Cadmium	10.00	10.24	102	80-120
Chromium	100.0	100.6	101	80-120
Cobalt	25.00	24.55	98	80-120
Copper	12.50	12.49	100	80-120
Lead	100.0	97.79	98	80-120
Molybdenum	20.00	20.19	101	80-120
Nickel	25.00	25.08	100	80-120
Selenium	50.00	49.63	99	80-120
Silver	10.00	9.381	94	80-120
Thallium	50.00	48.00	96	80-120
Vanadium	25.00	24.54	98	80-120
Zinc	25.00	26.03	104	80-120

Type: BSD Lab ID: QC385765

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	98.17	98	80-120	0	20
Arsenic	50.00	50.44	101	80-120	0	20
Barium	100.0	96.80	97	80-120	1	20
Beryllium	2.500	2.655	106	80-120	0	20
Cadmium	10.00	10.20	102	80-120	0	20
Chromium	100.0	100.6	101	80-120	0	20
Cobalt	25.00	24.45	98	80-120	0	20
Copper	12.50	12.37	99	80-120	1	20
Lead	100.0	97.13	97	80-120	1	20
Molybdenum	20.00	20.09	100	80-120	0	20
Nickel	25.00	25.01	100	80-120	0	20
Selenium	50.00	49.29	99	80-120	1	20
Silver	10.00	9.280	93	80-120	1	20
Thallium	50.00	48.15	96	80-120	0	20
Vanadium	25.00	24.42	98	80-120	1	20
Zinc	25.00	25.63	103	80-120	2	20

Batch QC Report

California Title 26 Metals			
Lab #:	194375	Location:	205/209 Brush St. Oakland
Client:	R&M Environmental	Prep:	EPA 3050B
Project#:	STANDARD	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	124690
MSS Lab ID:	194430-001	Sampled:	04/24/07
Matrix:	Soil	Received:	04/27/07
Units:	mg/Kg	Prepared:	04/30/07
Basis:	as received	Analyzed:	05/01/07
Diln Fac:	1.000		

Type: MS Lab ID: QC385766

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	1.837	97.09	38.54	38	1-129
Arsenic	2.860	48.54	49.72	97	72-120
Barium	411.6	97.09	742.6 >LR	341 NM	49-138
Beryllium	0.2383	2.427	2.732	103	80-120
Cadmium	0.09256	9.709	9.046	92	72-120
Chromium	19.37	97.09	119.2	103	63-122
Cobalt	5.911	24.27	30.71	102	61-120
Copper	22.61	12.14	39.67	141 *	59-137
Lead	6.157	97.09	88.56	85	55-122
Molybdenum	0.5684	19.42	18.17	91	66-120
Nickel	17.50	24.27	46.86	121	45-139
Selenium	<0.07209	48.54	45.81	94	73-120
Silver	<0.01683	9.709	8.870	91	53-120
Thallium	<0.03180	48.54	38.99	80	64-120
Vanadium	27.32	24.27	61.12	139	55-139
Zinc	44.18	24.27	71.38	112	49-140

Type: MSD Lab ID: QC385767

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	99.01	46.68	45	1-129	17	23
Arsenic	49.50	50.36	96	72-120	1	20
Barium	99.01	512.0 >LR	101 NM	49-138	NC	23
Beryllium	2.475	2.755	102	80-120	1	20
Cadmium	9.901	9.223	92	72-120	0	20
Chromium	99.01	113.8	95	63-122	6	20
Cobalt	24.75	28.89	93	61-120	8	23
Copper	12.38	33.67	89	59-137	17	20
Lead	99.01	90.65	85	55-122	0	26
Molybdenum	19.80	18.75	92	66-120	1	20
Nickel	24.75	41.99	99	45-139	12	26
Selenium	49.50	46.66	94	73-120	0	20
Silver	9.901	8.838	89	53-120	2	22
Thallium	49.50	40.69	82	64-120	2	20
Vanadium	24.75	55.55	114	55-139	10	20
Zinc	24.75	64.00	80	49-140	12	23

*= Value outside of QC limits; see narrative
 NC= Not Calculated
 NM= Not Meaningful: Sample concentration > 4X spike concentration
 LR= Response exceeds instrument's linear range
 RPD= Relative Percent Difference

APPENDIX C

EXCAVATION SAMPLING LOG

EXCAVATION SAMPLING LOG



R&M EIE, Inc.

Date: 4/25/2007

SITE INFORMATION	SUBCONTRACTOR INFORMATION
Name: Documentation and Oversight of Removal Action	Excavating Company: NRC
Location: 205/209 Brush Street, Oakland, CA	Excavator(s): Dave, Mike
Project No: 4011	Sampling Equipment: by hand or excavator bucket
Logged By: C. Adams, R. Carranza	Sampler(s): R. Carranza, C. Adams

SAMPLE ANALYSIS		
Requested Analysis	Container Type	No. of Containers
Method 8015B for TPH-g	1.5" x 6" stainless steel tube	1
Method 8021B for BTEX	1.5" x 6" stainless steel tube	
Method 8015B for TPH-d	1.5" x 6" stainless steel tube	
Methods 5030B/8260B for Purgeable organics by GC/MS	1.5" x 6" stainless steel tube	
Methods/6010/7000 for Title 22 metals (CAM-17 Metals)	1.5" x 6" stainless steel tube	

SAMPLE INFORMATION					
Sample ID	Time	Depth (ft)	Water Encountered	Sampling Device	Soil Observations (color, odor, moist/dry, loose/firm, staining)
RM-B1	9:58	5	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	by hand <input type="checkbox"/> bucket <input checked="" type="checkbox"/>	black, HC odor, moist firm
RM-W1	14:01	3	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	by hand <input type="checkbox"/> bucket <input checked="" type="checkbox"/>	black, HC odor, moist firm
RM-S3	14:04	3	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	by hand <input type="checkbox"/> bucket <input checked="" type="checkbox"/>	black, HC odor, moist firm
RM-B3	14:06	7	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	by hand <input type="checkbox"/> bucket <input checked="" type="checkbox"/>	black, HC odor, moist firm
RM-N3	14:11	3	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	by hand <input type="checkbox"/> bucket <input checked="" type="checkbox"/>	black, HC odor, moist firm
RM-S2	14:13	3	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	by hand <input type="checkbox"/> bucket <input checked="" type="checkbox"/>	black, HC odor, moist firm
RM-B2	14:15	7	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	by hand <input type="checkbox"/> bucket <input checked="" type="checkbox"/>	black, HC odor, moist firm
RM-N2	14:17	3	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	by hand <input type="checkbox"/> bucket <input checked="" type="checkbox"/>	black, HC odor, moist firm
RM-S1	14:24	3	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	by hand <input type="checkbox"/> bucket <input checked="" type="checkbox"/>	black, HC odor, moist firm
RM-B4	14:27	7	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	by hand <input type="checkbox"/> bucket <input checked="" type="checkbox"/>	black, heavy HC odor, moist, firm
RM-N1	14:30	3	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	by hand <input type="checkbox"/> bucket <input checked="" type="checkbox"/>	black, HC odor, moist firm
RM-E1	14:35	3	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	by hand <input checked="" type="checkbox"/> bucket <input type="checkbox"/>	dry, brown, no odor

NOTES
No PID readings on the perimeter at 7:00am and on Southwest stockpile at 7:46
Zero readings for %LEL, H ₂ S, CO on the perimeter and around soil stockpile, 20.9% Oxygen on the perimeter
Can smell VOCs and HC while excavator scraps in trench area @ 8:30
Zero PID & LEL readings in trenches & excavation area @ 8:09
NRC says they will trench to measured depth of 5 ft. @ 9:01
Site excavated to 7ft. bgs

Field Book (Cameron Adams, R&M)

Project Name: 205/209 Brush Street

Project #: 4011

Date: 4/25-27/2007, 4/30/2007

Location: 205/209 Brush Street, Oakland, CA

Work Being Performed: Excavation of impacted area. Collection of soil samples from excavation area. Filling of excavation and compaction of filler material.

Materials, supplies, equipment used:

- Excavator (John Deere 225C)(4/25-27/2007)
- Loader (John Deere 544J)(4/25-27,30/2007)
- 2 x Compactor (John Deere CP-40)(4/25-27/2007) (Ingersoll-Rand SD-45)(4/27,30/2007)
- R&M Equipment, supplies:
 - Photoionization Detector (4/25-27,30/2007)
 - LEL (4/25/2007)
 - 1.5" x 6" stainless steel soil sampling tubes, Teflon covers, 1.5" plastic caps (4/25/2007)
- Troxlor Nuclear Gauge (4/25-27,30/2007)

Weather Conditions:

- 4/25/2007, Wednesday: Cloudy in the morning, cleared up later in the morning, sunny during the day, wind blowing to the North
- 4/26/2007, Thursday: Cloudy in the morning, cleared up later in the morning, sunny during the day, wind blowing to the North
- 4/27/2006, Friday: Clear skies, wind blowing to the North
- 4/30/2007, Monday: Clear skies, light wind blowing to the North

Personnel:

- R&M: Masood Ghassemi, Cameron Adams, Rafael Carranza
- NRC: (4/25-27, 4/30/2007)
 - David Delaso, Project Manager, direct (510) 749-4137, cell (510) 385-0444, plus 2 construction workers
- Keith Matthews, City of Oakland, Fire Dept. Hazardous Materials Inspector, cell (510) 755-6898 (4/25/2007)
- Port of Oakland: Mike MacMillan(4/25/2007), John Prall(4/25-27, 30/2007), Tim Leong(4/27, 30/2007), Phil Granger(4/27/2007)
- DPR representatives (4/27/2007)
- Martin Mills, Inspection Services Inc, cell (415) 385-9783 (4/25-27, 4/30/2007)
- Clean Energy: (4/25/2007)
 - Gilbert Lucero, Project Manager, cell (562) 335-9783, direct (562) 546-0312
- Don Fitterer and female colleague, Salesman for RSC equipment rental cell, (510) 557-0991, direct (510) 635-8485 (4/25/2007)
- Mike Henderson, President, H&K Mechanical, (Contracted by Clean Energy to install CNG station), cell (317) 250-5616, direct (317) 535-6410 plus four workers (4/30/2007)

- Rodney Chew, PG&E representative, (510) 437-2079 (4/25/2007)

Observations:

4/25/2007 Wednesday

- 6:49 - Small amount of water collect on tarp covering excavation.
- 6:51 - wind blowing in a Northern Direction.
- 7:01 - performed site walk, perimeter walk with LEL → 20.9% oxygen, 0.0 for H₂S, methane and CO₂.
- 7:45 - Used PID and LEL on stockpiled soil S.W. of excavation area. Both didn't pick up anything.
- 8:08 - LEL used on trenches in main excavation area, no readings.
- 8:32 - PID = 20.9ppm; spike while excavating with back hoe. Constant readings of 0-5ppm
- 8:27 - took bag sample from area between trenches, sample called BS-1.
- 8:35 - took bag sample from area between trenches, sample called BS-2.
- 8:47 - PID = 40.3ppm; spike at area between original trenches.
- 8:49 - PID = 79.8ppm; spike at area between original trenches.
- 8:50 - PID = 0.0ppm; at breathing level (5 ft above ground surface).
- 8:52 - note: The pattern appears to be this. When backhoe digs/agitates the soil, odor is present, PID spikes. The odor fades relatively quickly, and the PID readings <5.0 ppm.
- 8:56 - PID constant @ 0-5.0ppm at breathing level
- 9:01 - Site perimeter walk; PID = 0.0ppm
- 9:06 - PID = 29.6ppm; PID = 19.8ppm; from freshly stockpiled soil, spikes appear when you agitate the soil.
- 9:26 - Sheen noticed on standing water in excavation (very small, diameter ≈ 4 inches).
- 9:45 - Port of Oakland representative Mike McMillan and Fire Dept. Inspector Keith Matthews show up
- 9:45 - Odor check/site walk: PID ranges from 0-2.2ppm, wind blowing North, odor present downwind from excavation.
- 9:58 - soil sample RM-B1 taken by hand from area between former trenches in excavation area.
- 10:10 - PID = 15.8ppm; PID spike during excavation.
- 10:29 - Odor /PID site walk: PID ranged from 0 - 5.3ppm; wind blowing north, odor and PID readings present downwind (north) from excavation area.
- 10:37 - PG&E representative shows up.
- 10:50 - Bag Sample BS-2, PID reading = 73.0ppm.
- 10:51 - Bag Sample BS-1, PID reading = 3.0ppm.
- 10:53 - Big Rig with cattle creates smell of manure.
- 11:31 - Odor/PID site walk: PID ranged from 0-21.8ppm; wind blowing north, odor and PID readings present downwind (north) from excavation area.
- 11:48 - odor/PID stockpiled soil walk: PID ranged from 0-0.7ppm, odor present, did not agitate soil.
- 12:06 - PID = 0.0ppm; made PID reading near excavation area, while no activity was going on in the excavation area.
- 12:10 - Afternoon digging begins: odor present, PID ranging from 0-5.7ppm.
- 12:17 - PID - 19.1ppm; spike during excavation.
- 12:28 - excavation depth measured to be about 7.5 feet below ground surface.
- 12:43 - multiple, large pieces of wood found during excavation.
- 12:46 - North-west edge of excavation area seems to be boundary of contamination, evidenced by low average PID readings (0≤PID≤5 ppm), compared to middle of the excavation area.

- 12:50 - List of Personnel onsite today: Mike McMillan (Port), Keith Matthews, Fire dept. inspector (510) 755-6898, Martin Mills (ISI, inc) (415) 385-0782, Clean Energy: Gilbert Lucero, Project Manager, cell(562) 335-9783, direct (562) 548-0312, Don Fitterer and female colleague, salesman for RSC equipment rental
- 12:58 - Odor/PID site walk: PID ranged from 0-2 ppm; wind blowing north, odor and PID readings generally confined to area downwind (north) of excavation area.
- 13:40 - Performed soil sampling of excavation area, under the direction of Keith Matthews, collected 11 samples, S1, S2, S3, N1, N2, N3, B2, B3, B4, E1, W1.
- 14:00 - cleaned up R&M equipment, left site, will return tomorrow to oversee and document filling and compaction activities.
- 15:50 - Delivered soil samples to Curtis & Tompkins Laboratory (Berkeley, CA), and requested standard turn around time.

4/26/2007 Thursday

- 7:45 - arrived onsite
- 7:55 - performed site walk: site HC odor present downwind from excavation, PID = 0.0
- 8:00 - water present in bottom of excavation. Not much water, confined to a few puddles.
- 8:10 - first truck load dumps fresh dirt into excavation.
- 8:50 - 3 truck loads completed, trucked leaving to collect fresh materials at Dutra Materials (Richmond, CA).
- 9:40 - Trucks return with loads #4, 5, 6.
- 10:24 - Loader (John Deere 544) moving new filler material into excavation , slight HC odor present
- 10:26 - odor/PID site walk: slight odor near excavation, PID = 0.0
- 10:56 - Trucks arrive with loads # 7,8,9.
- 11:58 - Inspection Services Inc. (Geolabs, Inc.) representative arrives on site, named Martin Mills.
- 12:31 - Trucks with loads # 10, 11, 12 arrive on site.
- 12:55 - Used PID on covered, stockpiled soil, lifted tarp at the edge, readings ranged from 0-3ppm.
- 13:36 - Soil compaction test being performed by Martin Mills, ISI, Inc. (at 3 ft bgs).
- 13:45 - John Prall, representing Port of Oakland, EP&S arrives on site.
- 13:56 - Trucks with loads # 13, 14, 15 arrive.
- 14:00 - Loads # 13, 14, 15 are being dumped at the Southern end of the site. More compaction is required at excavation area before more filler material can be added .
- 14:25 - Francis Chen (Geolabs, Inc.) called, ISI, Inc. representative will be onsite between 10:30-11 on Fri, 4/27/2007.
- 14:39 - Excavator being used to dig lower, so Martin Mills (ISI, Inc.) can do compaction tests are at 4ft and 4.5 ft. (results for 4 ft bgs: 125 = dry density, 7.6% moisture; results for 4.5 ft bgs: 116 = dry density, 6.5% moisture).
- 15:03 - Note: Excavation is currently filled to 3.5 bgs at western end (deepest section of excavation).
- 15:10 - Excavator taking ~1 ft. of soil off of eastern side of the excavation and bringing to the western side. Originally, besides the trenches, the excavation was about 1 ft bgs.
- 15:50 - Loader brought a few loads of filler materials (from loads left onsite) to excavation, used compactor to compact it.
- 16:30 - cleanup up and packed up R&M supplies and materials, Masood and Cameron, left the site.

4/27/2007 Friday

- 6:50 - Cameron arrived onsite.
- 6:52 - Dave from NRC tells me: 6 trucks will be doing the three hour roundtrip to the Altamont landfill today. Should be able to complete 3 trips giving us a max of 18 loads.

- 6:56 - Weather: Clear skies, moderate wind blowing to the North.
- 6:58 - Odor/PID site walk: upwind near excavation: PID = 0.0ppm, no odor; downwind near excavation: PID = 0.0ppm, no odor.
- 6:59 - Truck #1, being loaded with load #1 from stockpiled soil pile.
- 7:05 - PID reading of stockpiled soil: Agitated several areas around soil stockpile with foot. PID = 0.0ppm.
- 7:10 - Truck #2 being loaded with load # 2 from stockpiled soil pile.
- 7:25 - Truck #3 being loaded with load # 3 from stockpiled soil pile.
- 7:32 - Truck #4 being loaded with load #4 from stockpiled soil pile.
- 7:45 - Truck #5 being loaded with load # 5 from stockpiled soil pile.
- 7:48 - Only five trucks arrived, instead of six.
- 7:50 - Picture: Stockpile after removal of 5 loads.
- 7:56 - PID reading for stockpile area where soil was removed by loader → fairly strong Hydrocarbon odor, PID constant between 5-10ppm with spikes up to 28.2ppm.
- 8:24 - loader bringing filler material to excavation site.
- 8:30 - Masood called to inform me that he heard from Martin Mills (ISI, Inc.) about the quality of our compaction, it isn't good enough. Told Mike (NRC) he called Dave (NRC).
- 8:40 - Stockpile odor/PID check: agitated dirt with foot, PID = 208ppm, strong odor, did this to area of stockpile newly exposed by loader.
- 9:05 - Phil Granger (Port of Oakland) arrived onsite.
- 9:08 - John Prall and Tim Leung (Port of Oakland) arrived on site.
- 9:10 - A large group (6-8 persons) representing DPR arrived on site.
- 9:15 - Dave (NRC) arrived back onsite. He told me (C. Adams, R&M), that he ordered a compactor with 3 times the compaction capabilities of the current one. He says it will be onsite in about 1.5 hours. I called Masood and informed him of the situation.
- 9:35 - Brick building to the North of site is 205 & 209 Brush street.
- 10:04 - Marked locations of former borings on a drawing, will put into final figure.
- 10:05 - first truck returning from Altamont landfill, and being loaded with load #6.
- 10:10 - Odor was present while loader was loading truck #1, dissipated shortly after loading completed.
- 10:16 - Larger compactor arrives on-site.
- 10:21 - Truck #2 being filled w/ load #7.
- 10:25 - Compaction begins w/ larger compactor (IR SD-45).
- 10:39 - Truck #3 being filled up with load #8.
- 10:45 - Truck #4 being filled with load #9. Strong hydrocarbon odor present downwind from stockpile.
- 11:45 - PID readings on stockpiled soil. Rafael and I used a shovel to dig into soil, took immediate reading. Readings averaged about 50 ppm, with spikes at 554ppm, 756ppm and 1260ppm. Took readings around the entire stockpile. (Picture)
- 12:10 - Martin Mills (ISI, Inc.) doing compaction testing. Conducted two tests. Compaction not enough, (@ 90%, need 95%)
- 12:24 - Going to run compactor for 45 minutes and then test the compaction level again.
- 12:42 - Loader moving stockpiled soil around, hydrocarbon odor present downwind, PID = 20-100ppm up close to soil.
- 12:58 - Truck #1 arrive to pick up load # 11 (picture).
- 13:12 - Compaction test conducted by Martin Mills (Inc.). Got 95%, OK.
- 13:15 - Wind now blowing South-East.
- 13:25 - Truck #2 being filled with load #12.

- 13:34 - Truck #3 being filled with load #13.
- 13:41 - Truck #4 being filled with load #14.
- 13:42 - Picture: Load #13 covered with a tarp, leaving for the Altamont landfill.
- 13:50 - Load #15 being loaded into Truck #5.
- 14:08 - Picture: NRC workers shoveling last of stockpiled soil into loader before being loaded into Truck #5: load #15.
- 14:48 - Load # 15: the last load, covered with a tarp and leaving the site, stockpile is gone.
- 14:50 - Backfilling begins again, loader bringing filler to excavation.
- 15:10 - Compactor being used on newly added filler material.
- 15:12 - Loader bringing filler material located at Southern end of site, to location West of the excavation (pictures).
- 15:35 - Picture: excavation, compactor running, main excavation depth is now about 1 ft bgs.
- 16:12 - Left site, Picture: site as left Friday afternoon.

4/30/2007 Monday

- 8:00 - Arrive onsite. Compaction already underway. Mike (NRC) tells me that he began compaction at 7:30.
- 8:10 - Spoke to Mike Henderson (H&K Mechanical), he said he was under the impression that our work would be done on Friday, I told him our ETA for completion was 12-12:30, depending on the results we receive from compaction testing.
- 8:45 - Martin Mills arrives onsite to do soil compaction testing.
- 8:50 - Site PID/odor walk: no HC odor, PID = 0.0ppm.
- 9:05 - Compaction testing: 85% dry density and low 90's% dry density. (Picture of testing being conducted). Conducted on final lift, 6" bgs.
- 9:10 - Tim Leung (Port of Oakland) arrives onsite.
- 9:12 - Martin Mills says more compaction needed.
- 9:15 - Compaction begins again.
- 9:50 - Compaction stops, Martin Mills conducting compaction tests → 93% dry density. Testing conducted on final lift, 6" bgs
- 10:10 - Compaction begins again.
- 11:05 - Compaction testing: 1st test = 96%, 2nd test = 93%. Martin says he is going to give the excavation a 93% compaction, and note the 96% reading. Testing conducted on final lift, 6" bgs.
- 11:07 - John Prall arrives onsite.
- 11:19 - H&K Mechanical begin working in excavated area. Pictures: site as left to H&K/Clean Energy.
- 11:23 - Pictures: site as left to H&K Mechanical/Clean Energy.
- 12:55 - NRC truck arrives to pick-up left over filler material. Picture: NRC truck being loaded with filler material. Estimate 2 loads are needed to move filler material offsite.
- 14:55 - NRC truck returns to site, loaded with 2nd load. (Picture)
- 15:01 - 2nd load leaves site. A third load is needed to move the remaining filler material offsite.
- 16:06 - H&K Mechanical leave site (pictures: how H&K left the site).
- 16:35 - NRC truck returns to site for third and final load. Note: Leftover filler material is being taken to Point Molati, Richmond, CA to be stored by NRC).
- 16:51 - Left site, pictures: site as left.

APPENDIX E

**COMPACTION SPECIFICATIONS, BACKFILL MATERIALS SPECIFICATIONS, AND
COMPACTION TEST RESULTS**



Inspection Services, Inc.
 Pier 26, The Embarcadero
 San Francisco, CA 94105
 Phone: 415-243-3265 / Fax: 415-243-3266

NUCLEAR GAUGE FIELD DENSITY TEST

Inspector:	<u>Martin Mills</u>	ISI Project No.:	<u>2209-023</u>
Date:	<u>4-30-07</u>	ISI Project Name:	<u>CNG Station</u>
Day (circle one):	Mon Tue Wed Thu Fri Sat Sun	Address:	
Time arrived at ISI lab for pick-up:		Met with:	<u>Mossud</u>
Time arrived at jobsite:	<u>9:00 a.m.</u>	of:	<u>NRC Enviromental</u>
Time departed jobsite:	<u>11:30 a.m.</u>	Parking:	
Time departed ISI lab after drop-off:		Tolls:	<u>\$4</u>
Hours Worked:	<u>2.5</u> ST <u> </u> OT <u> </u> DT <u> </u> NS <u> </u> NSOT	Noon Break (hrs):	
Work Shift (circle one):	Day Swing Graveyard	Service Code (s):	<u>2701 (Soils/Aggr.) 2801 (AC)</u>
Travel Time: <u>1</u>	Mileage: <u>30</u>	Re-inspection (hrs):	

LOCATION KEY
 BF-Backfill ST-Station SW-Sewer Line WL-Wall
 BP-Building Pad EXC-Excavation SD-Storm Drain WTL-Water Line
 ELC-Electrical FTG-Footing TR-Trench RT-Retest

ELEVATION KEY
 SG-Subgrade TOPC-Top of Pile Cap FAB-Finish Aggregate Base
 FG-Finish Grade TOP-Top of Pipe BTM-Bottom
 AB-Aggregate Base FSG-Finish Subgrade BTP-Below Top of Pipe

Test #	Test Date	General Location	Elevation	Moisture [%]	Dry Density [pcf]	Reference Curve	Rel. Compaction [%]	Specified Comp. [%]	Probe Depth [in.]
1	4-30	CNG Fueling Station	FSG	7.1	130.4	CL-II-AB L-36149	93 95	95	4
2	4-30	CNG Fueling Station	FSG	5.9	130.2	CL-II-AB L-36149	93 95	95	4

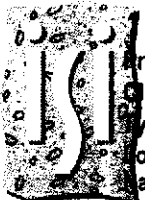
<input type="checkbox"/> Moisture determined by burn-back method; dry densities corrected accordingly		TESTS MEET OR EXCEED THE SPECIFIED COMPACTION REQUIREMENTS EXCEPT AS NOTED *DENOTES FAILURE TO MEET SPECIFIED COMPACTION REQUIREMENTS			
Laboratory Standard:	D-1557	Reference Curve #	Soil Description	Max. Dry Density [pcf]	Opt. Moisture [%]
Field Test Method:	D-2922 / D-3017	CL-II-AB	Grey Gravel w/ Clay & Sand	140.6	5.5
Standard Density Count:	2012	L-36149		131.0	7.0
Standard Moisture Count:	650				
Gauge Model and S/N, underline one:		MC-1 DR-P: MD10606202	MC-1 DR-P: MD80804474	MC-1 DR-P: MD90905302	

____ Troxler 14650
 ISI Inspector Signature

Person notified of inspection results: Francis Chan Reviewed by ISI Supervisor: _____

Report/times reviewed by client/contractor _____ Copy of hand-written results left at jobsite Yes No

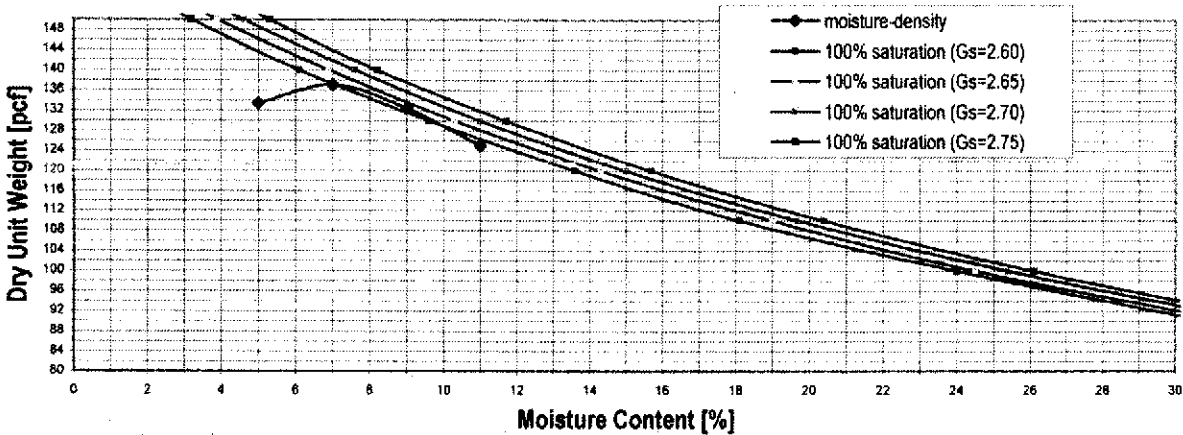
Compaction Test (Moisture-Density), ASTM D698 / D1557



Project Name:	2nd and Bush St, Berkeley ^{Oakland}	ISI File No.:	2209-023.0
Client Name:	GEOLABS, attn.: Francis Chan, P.E., G.E.	ISI Lab No.:	L-36149
Type of Material:	Silty soil with AB		
Location:	Jobsite		
Opt. Water Content [%]:	7.0	Sample No.:	1237
Procedure (A, B, or C):	C	Bulk Sp. Gr. G_m (C127) [-] =	
Preparation (dry / moist):	Dry	Weight (SSD) [g] =	
Rammer (manual / mechanical):	manual	Weight under water [g] =	
Effort (standard / modified):	mod. (D1557)	Dry weight [g] =	
Opt. Water Content [%] =	7.0	Absorption [%] =	
		Max. Dry Unit Weight [pcf] =	137.0

dry soil [g]	6000	6000	6000	6000		
water added [g]	300	420	540	660		
pan + wet soil [g]	6300	6420	6540	6660		
mold + wet soil [lb]	24.50	24.99	24.82	24.40		
mold: 9.38 or 13.99 [lb]	13.99	13.99	13.99	13.99		
wet soil [lb]	10.51	11.00	10.83	10.41		
volume: 0.0334 or 0.075 [ft ³]	0.075	0.075	0.075	0.075		
wet density [pcf]	140.1	146.7	144.4	138.8		
pan + wet soil [g]						
pan + dry soil [g]						
tare [g]						
moisture (D2216 / D4643) [g]						
moisture [%]	5.0	7.0	9.0	11.0		
dry density [pcf]	133.5	137.1	132.5	125.0		

Oversize correction (D4718)	Moist mass [g]	Water cont. [%]	Dry mass [g]	Percentage by dry weight
Fine fraction				
Oversize (coarse) fraction				
Corr. water content C_w [%]				
Corr. dry unit weight C_{d0} [pcf]				



Respectfully Submitted
INSPECTION SERVICES, Inc.

Dr. Sven van der Sluis, P.E.
Senior Civil Engineer

**D DUTRA
MATERIALS**
 1000 POINT SAN PEDRO ROAD
 SAN RAFAEL, CALIFORNIA 94901

Date: 4/26/2007 10:34:31 AM
 Plant: Richmond
 To: Port of Oakland
 Attn: Michael Rojas

Project Name:
 Project Location:
 Project Number:
 Fax Number: 510 553 2145

To Whom it May Concern:

The Class 2 Aggregate Base, which Dutra Materials proposes to supply to the project referenced above, will meet all specifications of Section 26 of the 2002 California Department of Transportation Standard Specifications. As required by Section 26-1.02A the material shall be free from organic matter and other deleterious substances. This material is 100% crushed virgin rock, and contains no recycled material. The following is a representative gradation of the material:

<u>Sieve Size</u>		<u>Percent Passing</u>	<u>Specification</u>
1"	(25 mm)	100	100
3/4"	(19 mm)	97	90-100
1/2"	(12.5 mm)	79	
3/8"	(9.5 mm)	66	
No. 4	(4.75 mm)	50	35-60
No. 8	(2.36 mm)	34	
No. 30	(600 um)	22	10-30
No. 200	(75 um)	8	2-9
Sand Equivalent	(CTM 217)	29	22 minimum
Durability	(CTM 229)	42	35 minimum
R-Value	(CTM 301)	83	78 minimum

NOTE: All third-party sampling of aggregate for the purpose of specification compliance shall be performed in accordance with California Test Method 125. Testing of these materials for compliance purposes shall be done in accordance with applicable California Department of Transportation test methods and practices.

Please call me at (415) 459-7740 if you need any additional information.

Respectfully,

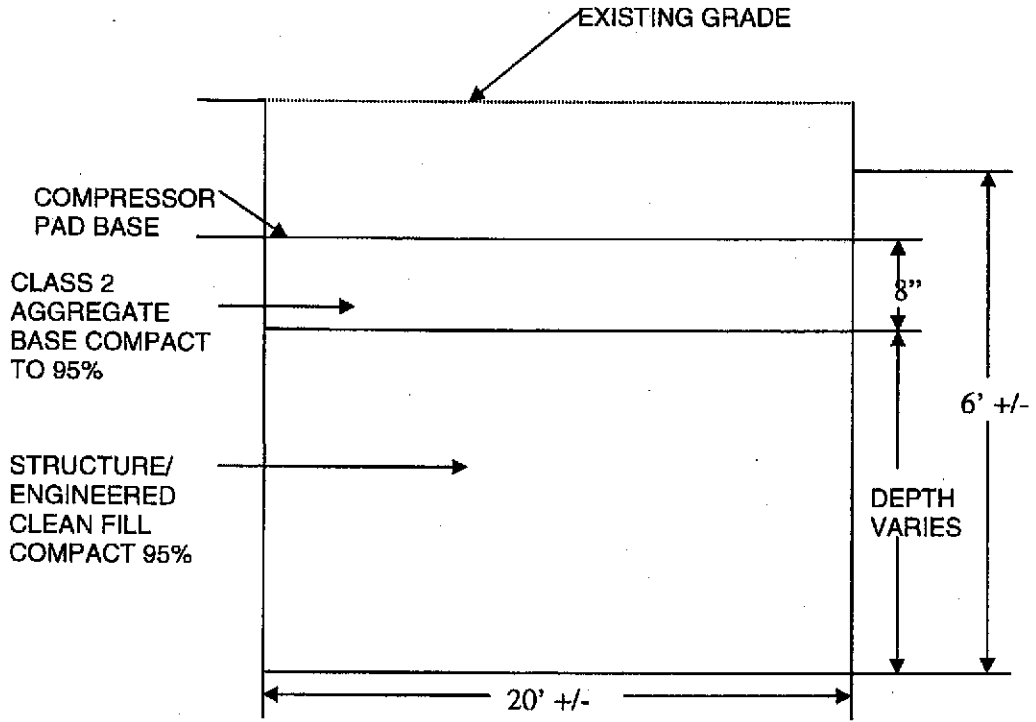


Aaron Johnson
 Sales Manager
 Dutra Materials

Backfill Detail for CNG Station Pad at Brush Street

4/24/07

J. Brown



Sketch N.T.S.

approved for backfilling. No backfill material shall be deposited against the back of concrete abutments, concrete retaining walls, or the outside walls of cast-in-place concrete structures until the concrete has developed a strength of not less than 17 MPa {2,500 pounds per square inch} in compression, or until the concrete has been in place for 28 days, whichever occurs first.

- Backfill at the inside of bridge wingwalls and abutments shall be placed before curbs or sidewalks are constructed over the backfill and before railings on the wingwalls are constructed.

- Compaction of structure backfill by ponding and jetting will be permitted when, as determined by the Engineer, the backfill material is of such character that it will be self-draining when compacted and that foundation materials will not soften or be otherwise damaged by the applied water and no damage from hydrostatic pressure will result to the structure. Ponding and jetting of the upper 1.2 m {4 feet} below finished grade will not be permitted. The work shall be performed without damage to the structure and embankment, and in such a manner that water will not be impounded. Ponding and jetting methods shall be supplemented by the use of vibratory or other compaction equipment when necessary to obtain the required compaction.

- Unless otherwise shown on the plans or specified in these specifications or the special provisions, structure backfill shall be compacted to a relative compaction of not less than 95 percent.

- Structure backfill placed at the following locations shall be compacted to a relative compaction of not less than 90 percent:

1. Overside drains.
2. Footings for slope protection, slope paving, and aprons.
3. All headwalls, endwalls, and culvert wingwalls.
4. Retaining walls, except for portions under any surfacing.
5. Inlets in median areas or in traffic interchange loops.
6. Footings and pumping plants not beneath any surfacing.

- Unless otherwise shown on the plans or specified in these specifications or the special provisions, material for structure backfill to be compacted to a relative compaction of not less than 95 percent and material to be placed behind retaining walls shall have a Sand Equivalent value of not less than 20 and shall conform to the following grading:

Sieve Sizes	Percentage Passing
75-mm {3"}	100
4.75-mm {No. 4}	35 - 100
600-µm {No. 30}	20 - 100

- Unless otherwise shown on the plans or specified in these specifications or the special provisions, material for structure backfill to be compacted to a relative compaction of not less than 90 percent, except material to be placed behind retaining walls, shall consist of material free of stones or lumps exceeding 75 mm {3 inches} in greatest dimension, organic or other unsatisfactory material.

- At locations where directed by the Engineer, the material used to backfill the outer 0.6-m {2-foot} portion of structure backfill adjacent to pipe and culvert inlets

and outlets, and structure backfill placed within 0.6-m {2 feet} of finished grade behind abutments, abutment wingwalls, retaining walls, and other portions of structures shall be a compacted impervious material. The impervious backfill shall be an earthy material, as determined by the Engineer to be suitable for such purpose. The Sand Equivalent requirement shall not apply to the impervious material used for structure backfill.

- The cells formed by the crib members of crib walls and the space between the crib wall and the limits designated for structure excavation, as shown on the plans or specified, including any space due to material being removed outside those limits, shall be backfilled with material conforming to the following grading, quality, placement and compaction requirements:

Structure backfill placed for crib walls shall be of such character that it will not sift or flow through the openings in the wall and shall conform to the type or types listed below for the height of wall.

Backfilling shall progress simultaneously with the erection of the crib wall. Backfill material shall be so placed as to not disturb or damage the crib members, shall be placed in uniform layers before compaction not exceeding the thickness listed in the following table, and shall be compacted by hand tamping, mechanical compaction or other means approved by the Engineer.

Wall Height	Backfill Material Type	Loose Thickness of each Layer of Backfill Material Before Compaction
Under 3 m {10 feet}	C, D or E	0.3-m {1 foot}
3 m to 8 m {10-26 feet}	D or E	0.6-m {2 feet}
Over 8 m {26 feet}	E	1.2 m {4 feet}

Backfill Material Type	Grading		Sand Equivalent	Relative Compaction
	Sieve Size	Percentage Passing		
C	75-mm {3"}	100	None	90% Min.
D	75-mm {3"}	100	30 Min.	90% Min.
	4.75-mm {No. 4}	35 - 100		
E	75-mm {3"}	100	None	90% Min.
	4.75-mm {No. 4}	25 - 70		
	300-µm {No. 50}	5 - 20		
	75-µm {No. 200}	0 - 5		

- Structure backfill placed at bridge supports in waterways and water channels, and not beneath any embankment, pavement or slope protection, need not be compacted, shall consist of soil which is free of organic matter, trash or other unsatisfactory material, and shall be placed to the level of the original ground or finished grade.

- Where structure excavation is performed and material is removed outside the limits designated for structure excavation, as shown on the plans or specified in these specifications or the special provisions, backfill material placed in those excavation areas shall conform to the material and compaction requirements of the adjacent structure backfill.

APPENDIX F

CITY OF OAKLAND HAZARDOUS MATERIALS INSPECTION REPORT

OAKLAND FIRE DEPARTMENT/FIRE PREVENTION BUREAU HAZARDOUS MATERIALS UNIT

250 FRANK OGAWA PLAZA, SUITE 3341, OAKLAND, CA 94612-2032 • (510) 238-3927

HAZARDOUS MATERIALS INSPECTION REPORT

Site Number	Facility Name	Facility Address	Zip Code
	Port/City CNG Project	209 Brush St.	07

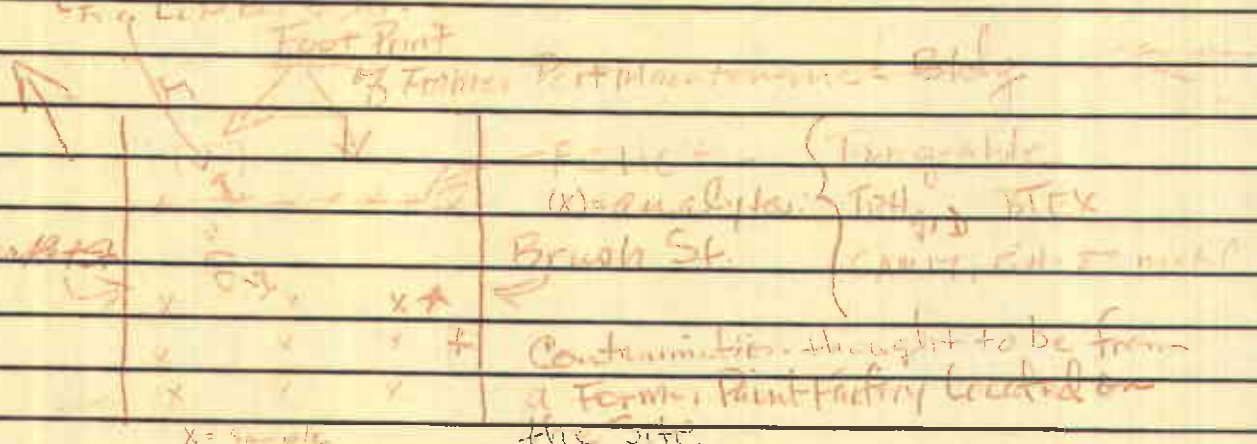
Inspection Report

0955 - 10:45 PERMISSION TO INSPECT GRANTED 13:40 - 14:26

Site Activity: Over excavation of contaminated soil
 followed by confirmation sampling
 in support of C.N.G. Fueling Facility Project

Purpose of Site Visit: Participate in defining Area of Impact
 Soil to be removed and to observe sampling location.

Site located at US 98000 & 2003 corner. Former paint factory.



Port Project: Mr. J. Paul G. 637-1375

Port Contact: Michael W. Miller

REM Envil: Masood, Ghassani oversight Contractor

REM will provide OFD Fire Prevention Bureau
 with a copy of the project report.

<p>Facility Contact/Print Name: MASOOD GHASSEMI</p> <p>Facility Contact/Signature: <i>Masood Ghassani</i> 510-553-2146</p>	<p>Inspected By: <i>KIM</i> 238-3927</p> <p><input type="checkbox"/> Insp. Griffin 238-7759 <input checked="" type="checkbox"/> Insp. Kupers 238-7054 <input checked="" type="checkbox"/> Insp. Matthews 238-2396 <input type="checkbox"/> Insp. Gomez 238-7253</p> <p>Date: 25 April 07</p>
--	---

APPENDIX G

EXCAVATED MATERIAL DISPOSAL MANIFESTS



WEIGHMASTER-Altamont Landfill & Resource Recovery Original
 10840 Altamont Pass Road Ticket# 743314
 Livermore, CA, 94551
 Ph: (925)455-7300

Customer Name NrcEnvironmen Nrc Environment Carrier GEN Altamont Generic
 Ticket Date 04/27/2007 Vehicle# 6M49733WT Volume
 Payment Type Credit Account Container
 Manual Ticket# BIJLEVELD 1WT
 Hauling Ticket# License#
 Route Billing # 0038257
 State Waste Code Gen EPA ID
 Manifest 28270-11
 Destination
 PO
 Profile 55423000 (**Class II Cover Soil-NRC Environmental**)
 Generator

	Time	Scale	Deputy Weighmaster	Inbound	Gross	68900	lb
In	04/27/2007 14:35:02	Scale1 Inboun	RROJAS1841		Tare	29800	lb
Out	04/27/2007 14:35:02		RROJAS1841		Net	39100	lb
					Tons		19.55

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 C2 Cover R&C-Tons-	100	19.55	Tons				Oakland
2 EVL-Env Fee Lg.	100	1	load				Oakland
3 FUEL-Fuel Surcharg	100		*				Oakland

Total Tax
 Total Ticket

THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster, whose name appears on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Dept. of Food and Agriculture.

DRIVER: *James Depledge*

404WMCA

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number: C A D 9 8 1 4 3 0 4 6 5 2. Page 1 of 1 3. Emergency Response Phone: NRGRES 510 749-1390 4. Waste Tracking Number: 28270-11

5. Generator's Name and Mailing Address: PORT OF OAKLAND, 530 WATER STREET, OAKLAND, CA 94607. Generator's Site Address (if different than mailing address): PORT OF OAKLAND, 209 BRUSH STREET, OAKLAND, CA 94607. Generator's Phone: 510 527-1134. AT: JEFF RUBIN

6. Transporter 1 Company Name: Bixwood Packaging U.S. EPA ID Number: 7. Transporter 2 Company Name: U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Waste Management - Altamont, 10840 Altamont Road, Livermore, CA 94550. Facility's Phone: 925 455-7300. U.S. EPA ID Number: C A D 9 8 1 3 8 2 7 1 2

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1.	NON-HAZARDOUS WASTE SOILD (SOIL WITH HYDROCARBONS)	0	DT	00013	Y
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information: WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT. PROFILE# 55423000. JOB# / PO# 28270. TO#: 07-EMRESP-13. WO#: 026915.

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. Generator's/Officer's Printed/Typed Name: JEFFREY L. RUBIN. Signature: [Signature]. Month Day Year: 04 27 07. AGENT ON BEHALF OF PORT OF OAKLAND

15. International Shipments: Import to U.S. Export from U.S. Port of export: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials. Transporter 1 Printed/Typed Name: [Signature] Signature: [Signature] Month Day Year: Transporter 2 Printed/Typed Name: [Signature] Signature: [Signature] Month Day Year:

17. Discrepancy. 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection. Manifest Reference Number:

17b. Alternate Facility (or Generator). U.S. EPA ID Number: Facility's Phone:

17c. Signature of Alternate Facility (or Generator). Month Day Year:

18. Designated Facility Owner or Operator. Certification of receipt of hazardous materials covered by the manifest except as noted in item 17a. Printed/Typed Name: [Signature] Signature: [Signature] Month Day Year: 04 27 07

GENERATOR
TRANSPORTER INTL
TRANSPORTER
DESIGNATED FACILITY



WEIGHMASTER-Altamont Landfill & Resource Recovery Original
 10840 Altamont Pass Road Ticket# 743317
 Livermore, CA, 94551
 Ph: (925)455-7300

Customer Name Nrc Environmen Nrc Environment Carrier GEN Altamont Generic
 Ticket Date 04/27/2007 Vehicle# 9090755WT Volume
 Payment Type Credit Account Container
 Manual Ticket# S&S TRK 64
 Hauling Ticket# License#
 Route Billing # 0038257
 State Waste Code Gen EPA ID
 Manifest 28270-13
 Destination
 PO
 Profile 55423000 (**Class II Cover Soil-NRC Environmental**)
 Generator

	Time	Scale	Deputy Weighmaster	Inbound	Gross	73680	lb
In	04/27/2007 15:02:12	Scale1	Inbound	RR0JAS1841	Tare	30760	lb
Out	04/27/2007 15:02:12			RR0JAS1841	Net	42920	lb
					Tons		21.46

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	C2 Cover RGC-Tons-	100	21.46	Tons				Oakland
2	EVL-Env Fee Lg.	100	1	Load				Oakland
3	FUEL-Fuel Surcharg	100		%				Oakland

Total Tax
 Total Ticket

THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster, whose name appears on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Dept. of Food and Agriculture.

DRIVER: _____

404WMCA



NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
CAD 981430485

2. Page 1 of **1**

3. Emergency Response Phone
NRCRES 510 740-1300

4. Waste Tracking Number
28270-13

5. Generator's Name and Mailing Address
**PORT OF OAKLAND
590 WATER STREET
OAKLAND, CA 94607**

Generator's Site Address (if different than mailing address)
**PORT OF OAKLAND
209 BRUSH STREET
OAKLAND, CA 94607**

Generator's Phone: **510 627-1134**

6. Transporter 1 Company Name
Sab Trans

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Waste Management - Altamont
10840 Altamont Road
Livermore, CA 94550**

U.S. EPA ID Number

Facility's Phone: **925 455-7800**

CAD 981382732

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt/Vol
		No.	Type		
1.	NON HAZARDOUS WASTE SOILD (SOIL WITH HYDROCARBONS)	0	DT	00018	Y
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
**WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT
PROVIDE# 55423000
JOB# / PO# = 28270 TO# = 07-EMRES2-13 WC# = 026815**

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Generator's/Officer's Printed/Typed Name: **JERRY L. RUBIN** Signature: *[Signature]* Month Day Year: **04 27 07**

15. International Shipments: Import to U.S. Export from U.S. Date of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: **DASHER** Signature: *[Signature]* Month Day Year: **04 28 07**
Transporter 2 Printed/Typed Name: Signature: Month Day Year:

17. Discrepancy
17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator): U.S. EPA ID Number:
Facility's Phone:

17c. Signature of Alternate Facility (or Generator): Month Day Year:

18. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 17a
Printed/Typed Name: Signature: *[Signature]* Month Day Year: **04 27 07**

GENERATOR

TRANSPORTER INTL

DESIGNATED FACILITY



WEIGHMASTER-Altamont Landfill & Resource Recovery Original
 10940 Altamont Pass Road Ticket# 749322
 Livermore, CA, 94551
 PH: (925) 460-7500

Customer Name NrcEnvironment Nrc Environment Carrier GEN Altamont Generic
 Ticket Date 04/27/2007 Vehicle# 9049451 Volume
 Payment Type Credit Account Container
 Manual Ticket# CIA TUCKING 786WT
 Hauling Ticket# License#
 Route Billing # 0038257
 State Waste Code Gen EPA ID
 Manifest 29270-14
 Destination
 PO
 Profile 55423000 (**Class II Cover Soil-NRC Environmental**)
 Generator

	Time	Scale	Deputy Weighmaster	Inbound	Gross	66740	lb
In	04/27/2007 15:21:26	Scale1	Inbound	RRDJAS1841	Tare	29780	lb
Out	04/27/2007 15:21:26			RRDJAS1841	Net	36960	lb
					Tons		19.48

Comments

Product	LDs	Qty	UOM	Rate	Tax	Amount	Origin
1	C2 Cover RAO-Tons	100	19.48	Tons			Oakland
2	EVL-Env Fee Lg.	100	1	Load			Oakland
3	FUEL-Fuel Surcharg	100	*				Oakland

Total Tax
 Total Ticket

THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster, whose name appears on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Dept. of Food and Agriculture.

DRIVER: _____

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
CAD 9 8 1 4 3 0 4 6 5

2. Page 1 of **1**

3. Emergency Response Phone
NRCRES 510-749-1380

4. Waste Tracking Number
28270-14

5. Generator's Name and Mailing Address
**PORT OF OAKLAND
630 WATER STREET
OAKLAND CA 94607**

Generator's Site Address (if different than mailing address)
**AL JEFF RUBIN
PORT OF OAKLAND
209 BRUSH STREET
OAKLAND CA 94607**

Generator's Phone: **510 627-1134**

6. Transporter 1 Company Name
CIA TRUCKING 780 CT 2

U.S. EPA ID Number

7. Transporter 2 Company Name
SS TRUCKING

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Waste Management - Alameda
10840 Alameda Road
Livermore, CA 94550**

U.S. EPA ID Number

Facility's Phone: **925 455-7300**

CAD 9 8 1 3 8 2 7 3 2

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit WL/Vol
		No.	Type		
1.	NON HAZARDOUS WASTE SOILD (SOIL WITH HYDROCARBONS)	001	DT	00018	Y
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
**WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT
PROFILE# 55423000
JOB#/PO#: 28270 TO#: 07-EMRESP-13 WO#: 026815**

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's Officer's Printed/Typed Name
JEFFREY L. RUBIN (AGENT ON BEHALF OF PORT OF OAKLAND) Month Day Year **04 27 07**

15. International Shipments Import to U.S. Export from U.S. Post of empty exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter Signature (for exports only):
Transporter 1 Printed/Typed Name **THOMAS E SPRUNER** Signature **[Signature]** Month Day Year **4 27 07**
Transporter 2 Printed/Typed Name Signature

17. Discrepancy
17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 17a
Printed/Typed Name Signature Month Day Year **4 27 07**



WEIGHMASTER-Altamont Landfill & Resource Recovery Original
 10840 Altamont Pass Road Ticket# 743324
 Livermore, CA, 94551
 Ph: (925)455-7300

Customer Name NrcEnvironmen Nrc Environment Carrier GEN Altamont Generic
 Ticket Date 04/27/2007 Vehicle# 9038293 Volume
 Payment Type Credit Account Container
 Manual Ticket# BANWAIT TRK 8296
 Hauling Ticket# License#
 Route Billing # 0038257
 State Waste Code Gen EPA ID
 Manifest 28270-15
 Destination
 PO
 Profile 55423000 (**Class II Cover Soil-NRC Environmental**)
 Generator

	Time	Scale	Deputy Weighmaster	Inbound	Gross	63260	lb
In	04/27/2007 16:07:02	Scale1 Inbound	RR0JAS1841		Tare	31580	lb
Out	04/27/2007 16:07:02		RR0JAS1841		Net	31680	lb
					Tons		15.84

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 C2 Cover RGC-Tons-	100	15.84	Tons				Oakland
2 EVL-Env Fee Lg.	100	1	Load				Oakland
3 FUEL-Fuel Surcharg	100		%				Oakland

Total Tax
 Total Ticket

THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster, whose name appears on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Dept. of Food and Agriculture.

DRIVER: _____

404WMCA



NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number CAD 081430465	2. Page 1 of 1	3. Emergency Response Phone NRCRES 510.749-1390	4. Waste Tracking Number 28270-15
5. Generator's Name and Mailing Address PORT OF OAKLAND 530 WATER STREET OAKLAND CA 94607			Generator's Site Address (if different than mailing address) PORT OF OAKLAND 289 BRUSH STREET OAKLAND CA 94607		
Generator's Phone: 510-527-1134					
6. Transporter 1 Company Name SGS PARAM-TRK			U.S. EPA ID Number		
7. Transporter 2 Company Name SGS PARAM-TRK			U.S. EPA ID Number		
8. Designated Facility Name and Site Address Waste Management 10840 LIVERMORE CA 94550			U.S. EPA ID Number		
Facility's Phone: 925-455-7300			CAD 081382732		
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	NON-HAZARDOUS WASTE SOLID (SOIL WITH HYDROCARBONS)	No.	Type		
		001	DT	00018	Y
	2.				
	3.				
4.					
13. Special Handling Instructions and Additional Information WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT PROFILE# 55423000 JOB#/PO# 28270 TO# 07-EMRESP-13 WOK# 026815					
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Generator's/Officer's Printed/Typed Name JEFFREY L. RUBIN (AGENT ON BEHALF OF PORT OF OAKLAND)			Month Day Year 04 27 07		
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Part of entry/exit: Date leaving U.S.:					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name SGS PARAM-TRK			Signature <i>[Signature]</i>		Month Day Year 4 27 07
Transporter 2 Printed/Typed Name			Signature		Month Day Year
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
Manifest Reference Number:					
17b. Alternate Facility (or Generator)			U.S. EPA ID Number		
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator) Month Day Year					
18. Designated Facility Owner or Operator. Certification of receipt of hazardous materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name			Signature <i>[Signature]</i>		Month Day Year 04 27 07

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY



10840 Altamont Pass Road
 Livermore, CA, 94551
 Ph: (925)455-7300

Ticket# 743323

Customer Name NrcEnvironmen Nrc Environment Carrier GEN Altamont Generic
 Ticket Date 04/27/2007 Vehicle# 9D73930 WT Volume
 Payment Type Credit Account Container
 Manual Ticket# AJ TRK 99WT
 Hauling Ticket# License#
 Route Billing # 0038257
 State Waste Code Gen EPA ID
 Manifest 28270-12
 Destination
 PO
 Profile 55423000 (**Class II Cover Soil-NRC Environmental**)
 Generator

	Time	Scale	Deputy Weighmaster	Inbound	Gross	76800	lb
In	04/27/2007 15:23:37	Scales Inbound	RR0JAS1841		Tare	33780	lb
Out	04/27/2007 15:23:37		RR0JAS1841		Net	43020	lb
					Tons		21.51

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 C2 Cover RGC-Tons-	100	21.51	Tons				Oakland
2 EVL-Env Fee Lg.	100	1	Load				Oakland
3 FUEL-Fuel Surcharg	100		%				Oakland

Total Tax
 Total Ticket

THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster, whose name appears on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Dept. of Food and Agriculture.

DRIVER: _____

404WMCA



NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
CAD 9 8 1 4 3 0 4 6 5

2. Page 1 of **1**

3. Emergency Response Phone
NRCRES 510 749-1390

4. Waste Tracking Number
25270-12

5. Generator's Name and Mailing Address
**PORT OF OAKLAND
530 WATER STREET
OAKLAND CA 94607**

Att. JEFF RUBIN Generator's Site Address (if different than mailing address)
**PORT OF OAKLAND
209 BRUSH STREET
OAKLAND CA 94607**

Generator's Phone: **510 627-1134**

6. Transporter 1 Company Name
A.J. TRUCKING

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Waste Management - Alameda
10840 Alameda Road
Livermore CA 94550**

U.S. EPA ID Number

Facility's Phone: **925 455-7300**

CAD 9 8 1 3 8 2 7 3 2

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit WL/Vol
		No.	Type		
1.	NON HAZARDOUS WASTE SOILD (SOIL WITH HYDROCARBONS)	0 0 1	DT	00018	Y
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
**WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT
PROFILE# 55423000
JOB#/PO#: 28270 TO#: 07-EMRESP-13 WO#: 026815**

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name: **JEFFREY L. RUBIN** Signature: *[Signature]* Month: **04** Day: **27** Year: **07**

15. International Shipments: Import to U.S. Export from U.S. Port of entry: **PORT OF OAKLAND** Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: **AMAR J. SINGH** Signature: *[Signature]* Month: **04** Day: **27** Year: **07**

Transporter 2 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____

17. Discrepancy
17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection
Manifest Reference Number: _____

17b. Alternate Facility (or Generator) U.S. EPA ID Number: _____
Facility's Phone: _____

17c. Signature of Alternate Facility (or Generator) Month: _____ Day: _____ Year: _____

18. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 17a
Printed/Typed Name: *[Signature]* Signature: *[Signature]* Month: **04** Day: **27** Year: **07**



WEIGHMASTER-Altamont Landfill & Resource Recovery Original
 10840 Altamont Pass Road Ticket# 743288
 Livermore, CA, 94551
 Ph: (925)455-7300

Customer Name Nrc Environmen Nrc Environment Carrier GEN Altamont Generic
 Ticket Date 04/27/2007 Vehicle# 6M49733WT Volume
 Payment Type Credit Account Container
 Manual Ticket# BILLEVELD 1WT
 Hauling Ticket# License#
 Route Billing # 0038257
 State Waste Code Gen EPA ID
 Manifest 28270 6
 Destination
 PO
 Profile 55423000 (**Class II Cover Soil-NRC Environmental**)
 Generator

Line	Scale	Deputy Weighmaster	Inbound	Gross	82340	lb
In 04/27/2007 11:26:57	Scale1 Inbound	johns		Tare	29800	lb
Out 04/27/2007 11:26:57		johns		Net	52540	lb
				Tons		26.27

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 C2 Cover RGC-Tons-	100	26.27	Tons				Oakland
2 EVL-Env Fee Lg.	100	1	Load				Oakland
3 FUEL-fuel Surcharg	100		%				Oakland

Total Tax
 Total Ticket

THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster, whose name appears on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Dept. of Food and Agriculture.

DRIVER: *[Signature]*

404WMCA



NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number CAD 981430465	2. Page 1 of 1	3. Emergency Response Phone NRCRES 510 749-1380	4. Waste Tracking Number 28270-6
5. Generator's Name and Mailing Address PORT OF OAKLAND 630 WATER STREET OAKLAND CA 94607			Generator's Site Address (if different than mailing address) PORT OF OAKLAND 209 BRUSH STREET OAKLAND CA 94607		
Generator's Phone: 510 827-1134					
6. Transporter/Company Name Bolton Trucking			U.S. EPA ID Number		
7. Transporter/Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address Waste Management - Altamont 10840 Altamont Road Livermore CA 94550			U.S. EPA ID Number		
Facility's Phone: 925 455-7300			CAD 981382732		
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
	1. NON HAZARDOUS WASTE SOILD (SOIL WITH HYDROCARBONS)	0-0-1	DT	00018	Y
	2.				
	3.				
	4.				
13. Special Handling Instructions and Additional Information WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT PROFILE# 55423000 JOB#/PO#:28270 TO#: 07-EMRESP-13 WO#: 026815					
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Generator's/Officer's Printed/Typed Name JEFFREY L. RUBIN (AGENT ON BEHALF OF PORT OF OAKLAND)					Month Day Year 10/4/27/07
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name James B. ...			Signature		Month Day Year
Transporter 2 Printed/Typed Name ...			Signature		Month Day Year
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
Manifest Reference Number:					
17b. Alternate Facility (or Generator)			U.S. EPA ID Number		
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator)					Month Day Year
18. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name			Signature		Month Day Year
					10/27/07



WEIGHMASTER-Altamont Landfill & Resource Recovery Original
 10840 Altamont Pass Road Ticket# 743294
 Livermore, CA, 94551
 Ph: (925)455-7300

Customer Name Nrc Environmen Nrc Environment Carrier GEN Altamont Generic
 Ticket Date 04/27/2007 Vehicle# 9049451 Volume
 Payment Type Credit Account Container
 Manual Ticket# CIA TUCKING 786WT
 Hauling Ticket# License#
 Route Billing # 0038257
 State Waste Code Gen EPA ID
 Manifest 28270-9
 Destination
 PU
 Profile 55423000 (**Class II Cover Soil-NRC Environmental**)
 Generator

	Time	Scale	Deputy Weighmaster	Inbound	Gross	73380	lb
In	04/27/2007 11:54:52	Scale1 Inbound	rrojas1841		Tare	29780	lb
Out	04/27/2007 11:54:52		rrojas1841		Net	43600	lb
					Tons		21.80

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	C2 Cover RGC-Tons-	100	21.80	Tons				Oakland
2	EVL-Env Fee Lg.	100	1	Load				Oakland
3	FUEL-Fuel Surcharg	100		*				Oakland

Total Tax
 Total Ticket

THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster, whose name appears on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Dept. of Food and Agriculture.

DRIVER: 

404WMCA 

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
CAD 981430465

2. Page 1 of **1**

3. Emergency Response Phone
NRCRES 510-748-1300

4. Waste Tracking Number
28270-9

5. Generator's Name and Mailing Address
**PORT OF OAKLAND
530 WATER STREET
OAKLAND, CA 94607**

AIR JEFF RUBIN Generator's Site Address (if different than mailing address)
**PORT OF OAKLAND
209 BRUSH STREET
OAKLAND, CA 94607**

Generator's Phone: **510 627-1134**

6. Transporter 1 Company Name

X CIA - 786 CT2

U.S. EPA ID Number

7. Transporter 2 Company Name

SS TRUCKING

U.S. EPA ID Number

8. Designated Facility Name and Site Address

**Waste Management - Altamont
10840 Altamont Road
Livermore, CA 94550**

U.S. EPA ID Number

Facility's Phone: **925 455-7300**

CAD 9814382732

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1.	NON-HAZARDOUS WASTE SOILD (SOIL WITH HYDROCARBONS)	001	DT	00018	Y
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information

**WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT
PROFILE# 55423000
JOB#/PO#: 28270 TO#: 07-EMRESP-13 WQ#: 026815**

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator/Officer's Printed/Typed Name: **JEFFREY L. RUBIN** Signature: *[Signature]* Month: **07** Day: **27** Year: **07**

15. International Shipments

Import to U.S. Export from U.S. Port of entry/exit: **OF OAKLAND** Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: **THOMAS E SPRINGER** Signature: *[Signature]* Month: **4** Day: **27** Year: **07**
Transporter 2 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____

17. Discrepancy

17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: _____ Signature: *[Signature]* Month: **4** Day: **27** Year: **07**



WEIGHMASTER-Altamont Landfill & Resource Recovery Original
 10840 Altamont Pass Road Ticket# 743298
 Livermore, CA, 94551
 Ph: (925)455-7300

Customer Name NrcEnvironmen Nrc Environment Carrier GEN Altamont Generic
 Ticket Date 04/27/2007 Vehicle# 9D73930 WT Volume
 Payment type Credit Account Container
 Manual Ticket# AJ TRK 99WT
 Hauling Ticket# License#
 Route Billing # 0038257
 State Waste Code Gen EPA ID
 Manifest 28270 7
 Destination
 PO
 Profile 56423000 (**Class II Cover Soil-NRC Environmental**)
 Generator



	Time	Scale	Deputy Weighmaster	Inbound	Gross	74580	lb
In	04/27/2007 12:09:22	Scale1 Inbound	JOHNS		Tare	33780	lb
Out	04/27/2007 12:09:22		JOHNS		Net	40800	lb
					Tons		20.40

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 C2 Cover RGC-Tons-	100	20.40	Tons				Oakland
2 EVL-Env Fee Lg.	100	1	Load				Oakland
3 FUEL-Fuel Surcharg	100		%				Oakland

Total Tax
 Total Ticket

THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster, whose name appears on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Dept. of Food and Agriculture.

DRIVER: _____
 404WMCA  

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

CAD 981430485

2. Page 1 of

1

3. Emergency Response Phone

NRGRES 510 749-1390

4. Waste Tracking Number

28270-7

5. Generator's Name and Mailing Address

PORT OF OAKLAND
630 WATER STREET
OAKLAND, CA 94607

At: JEFF RUBIN

Generator's Site Address (if different than mailing address)

PORT OF OAKLAND
209 BRUSH STREET
OAKLAND, CA 94607

Generator's Phone:

510 827-1134

6. Transporter 1 Company Name

A. J. TRUCKING

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Waste Management - Altamont
10840 Altamont Road
Livermore, CA 94550

U.S. EPA ID Number

Facility's Phone:

925 455-7300

CAD 981382732

9a. HM

9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))

10. Containers

No.

Type

11. Total Quantity

12. Unit Wt/Vol.

1. NON-HAZARDOUS WASTE SOILD (SOIL WITH HYDROCARBONS)

0 0 1

DT

00013

Y

13. Special Handling Instructions and Additional Information

WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT

PROFILE# 55423000

JOB#/PO#: 28270

TO#: 07-EMRESP-13

WO#: 026815

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name

JEFFREY L. RUBIN AGENT ON BEHALF OF PORT OF OAKLAND

Month Day Year
04 27 07

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

AMAR J. SINGH

Signature

Amar Singh

Month Day Year
04 27 07

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator. Certification of receipt of hazardous materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

[Signature]

Month Day Year
4 27 07

DESIGNATED FACILITY TO GENERATOR



WEIGHMASTER-Altamont Landfill & Resource Recovery Original
10840 Altamont Pass Road Ticket# 743299
Livermore, CA, 94551
Ph: (925)455-7300

Customer Name Nrc Environmen Nrc Environment Carrier GEN Altamont Generic
Ticket Date 04/27/2007 Vehicle# 9090755WT Volume
Payment Type Credit Account Container
Manual Ticket# S&S TRK 64
Hauling Ticket# License#
Route Billing # 0038257
State Waste Code Gen EPA ID
Manifest 28270 8
Destination
PO
Profile 55423000 (**Class II Cover Soil-NRC Environmental**)
Generator

Time	Scale	Deputy Weighmaster	Inbound	Gross	
In 04/27/2007 12:12:10	Scale1	Inbound	JOHNS	Tare	73120 lb
Out 04/27/2007 12:12:10			JOHNS	Net	30760 lb
				Tons	42360 lb
					21.18

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 C2 Cover RGC-Tons-	100	21.18	Tons				Oakland
2 EVL-Env Fee Lg.	100	1	Load				Oakland
3 FUEL-Fuel Surcharg	100		%				Oakland

Total Tax
Total Ticket

THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster, whose name appears on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Dept. of Food and Agriculture.

DRIVER: _____

404WMCA

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
CAD 9 8 1 4 3 0 4 8 5

2. Page 1 of 1

3. Emergency Response Phone
NRCRES 510 749-1390

4. Waste Tracking Number
28270-9

5. Generator's Name and Mailing Address
PORT OF OAKLAND
530 WATER STREET
OAKLAND CA 94607

ATT: JEFF RUBIN

Generator's Site Address (if different than mailing address)
PORT OF OAKLAND
209 BRUSH STREET
OAKLAND CA 94607

Generator's Phone: 510 627-1134

6. Transporter 1 Company Name

SZB Recycling

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Waste Management - Altamont
10840 Altamont Road
Livermore CA 94550

U.S. EPA ID Number

Facility's Phone: 925-465-7300

CAD 9 8 1 3 8 2 7 3 2

9a. HM 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))

10. Containers

No.

Type

11. Total Quantity

12. Unit Wt./Vol.

1. NON HAZARDOUS WASTE SOILD (SOIL WITH HYDROCARBONS)

0 0 1

DT

00018

Y

13. Special Handling Instructions and Additional Information

WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT
PROFILE# 55423000
JOB#/PO#: 28270

TO#: 07-EMRESP-13

WO#: 026815

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name

JEFFREY L RUBIN AGENT ON BEHALF OF PORT OF OAKLAND

Month Day Year
04/27/07

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year

4/27/07

GENERATOR

INTL

TRANSPORTER

DESIGNATED FACILITY



WEIGHMASTER-Altamont Landfill & Resource Recovery Original
 10840 Altamont Pass Road Ticket# 743300
 Livermore, CA, 94551
 Ph: (925)455-7300

Customer Name NrcEnvironmen Nrc Environment Carrier GEN Altamont Generic
 Ticket Date 04/27/2007 Vehicle# 9038906 Volume
 Payment Type Credit Account Container
 Manual Ticket# PARAM TRK. 491
 Hauling Ticket# License#
 Route Billing # 0038257
 State Waste Code Gen EPA ID
 Manifest 28270 10
 Destination
 PO
 Profile 55423000 ("Class II Cover Soil-NRC Environmental")
 Generator

	Time	Scale	Deputy Weighmaster	Inbound	Gross	75720	lb
In	04/27/2007 12:16:02	Scale1 Inbound	JOHNS		Tare	30260	lb
Out	04/27/2007 12:16:02		JOHNS		Net	45460	lb
					Tons		22.73

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 C2 Cover RGC-Tons-	100	22.73	Tons				Oakland
2 EVL-Env Fee Lg.	100	1	Load				Oakland
3 FUEL-Fuel Surcharg	100		%				Oakland

Total Tax
 Total Ticket

THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster, whose name appears on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Dept. of Food and Agriculture.

DRIVER: [Signature]
 404WMCA

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

CAD 981430405

2. Page 1 of

1

3. Emergency Response Phone

NRCRES 510 749-1380

4. Waste Tracking Number

24270-10

5. Generator's Name and Mailing Address

PORT OF OAKLAND
530 WATER STREET
OAKLAND CA 94607

AT: JEFF RUBIN

Generator's Site Address (if different than mailing address)

PORT OF OAKLAND
239 BRUSH STREET
OAKLAND CA 94607

Generator's Phone:

510 627-1134

6. Transporter 1 Company Name

X-25 PARAM-TRK

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Waste Management - Altamont
10840 Altamont Road
Livermore CA 94550

U.S. EPA ID Number

Facility's Phone:

925 455-7300

CAD 981430405

9a.

HM

9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))

1. NON HAZARDOUS WASTE SOILD (SOIL WITH HYDROCARBONS)

10. Containers

No.

Type

11. Total Quantity

12. Unit WL/Vol.

0 0 1

DT

00018

Y

13. Special Handling Instructions and Additional Information

WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT
PROFILE# 55423000
JOB#/PO#: 28270

TO#: 07-EMRESP-13

WO#: 026815

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name

JEFFREY L. RUBIN DEPT OF PORT OF OAKLAND

Month Day Year

04 27 07

15. International Shipments

Import to U.S.

Export from U.S.

Port of origin:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Param TRK

Signature

[Signature]

Month Day Year

4 27 07

Transporter 2 Printed/Typed Name

Signature

[Signature]

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 17a

Printed/Typed Name

Signature

[Signature]

Month Day Year

4 27 07



WEIGHMASTER-Altamont Landfill & Resource Recovery Original
 10840 Altamont Pass Road Ticket# 743248
 Livermore, CA, 94551
 Ph: (925)455-7300

Customer Name NrcEnvironmen Nrc Environment Carrier GEN Altamont Generic
 Ticket Date 04/27/2007 Vehicle# 9D73930 WT Volume
 Payment Type Credit Account Container
 Manual Ticket# AJ TRK 99WT
 Hauling Ticket# License#
 Route Billing # 0038257
 State Waste Code Gen EPA ID
 Manifest 28270-1
 Destination
 PO
 Profile 55423000 (**Class II Cover Soil-NRC Environmental**)
 Generator

	Time	Scale	Deputy Weighmaster	Inbound	Gross	79920	lb
In	04/27/2007 08:29:18	Scale1 Inbound	rrajas1841		Tare	33780	lb
Out	04/27/2007 08:29:18		rrajas1841		Net	46140	lb
					Tons		23.07

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 C2 Cover RGC-Tons-	100	23.07	Tons				Oakland
2 EVL-Env Fee Lg.	100	1	Load				Oakland
3 FUEL-Fuel Surcharg	100		%				Oakland

Total Tax
 Total Ticket

THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster, whose name appears on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Dept. of Food and Agriculture.

DRIVER: _____

404WMCA

AJ



NON-HAZARDOUS
WASTE MANIFEST

1. Generator ID Number

CAD 981430485

2. Page 1 of

1

3. Emergency Response Phone

NRCRES 510 748-1300

4. Waste Tracking Number

29270-1

5. Generator's Name and Mailing Address

PORT OF OAKLAND
530 WATER STREET
OAKLAND, CA 94607

Att: JEFF RUBIN

Generator's Site Address (if different than mailing address)

PORT OF OAKLAND
709 BRUSH STREET
OAKLAND, CA 94607

Generator's Phone: 510 627-1134

6. Transporter 1 Company Name

A.J. TRUCKING

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Waste Management - Altamont
10840 Altamont Road
Livermore CA 94550

U.S. EPA ID Number

Facility's Phone: 925 455-7300

CAD 981382732

9a. HM

9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))

10. Containers

No.

Type

11. Total Quantity

12. Unit Wt./Vol.

1. NON-HAZARDOUS WASTE SOILD (SOIL WITH HYDROCARBONS)

0 0 1

DT

00018

Y

13. WAREHOUSE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT:

PROFILE# 55423000

JOB#/PO#: 28230

TO#: 07-EMRESP-13

WO#: 026815

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name

AGENT ON BEHALF
OF PORT OF OAKLAND

Signature

JEFFREY L. RUBIN

Month Day Year

04 27 07

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

AMAR J. SINGH

Signature

AMAR J. SINGH

Month Day Year

04 27 07

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

U.S. EPA ID Number

17b. Alternate Facility (or Generator)

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year

4 27 07



WEIGHMASTER-Altamont Landfill & Resource Recovery Original
 10840 Altamont Pass Road Ticket# 743249
 Livermore, CA, 94551
 Ph: (925)455-7300

Customer Name Nrc Environmen Nrc Environment Carrier GEN Altamont Generic
 Ticket Date 04/27/2007 Vehicle# 6M49733WT Volume
 Payment Type Credit Account Container
 Manual Ticket# 8IJLEVELD IWT
 Hauling Ticket# License#
 Route Billing # 0038257
 State Waste Code Gen EPA ID
 Manifest 28270-2
 Destination
 PO
 Profile 55423000 (**Class II Cover Soil-NRC Environmental**)
 Generator

	Time	Scale	Deputy Weighmaster	Inbound	Gross	
In	04/27/2007 08:33:33	Scale1 Inbound	rrojasi841		72100	lb
Out	04/27/2007 08:33:33		rrojasi841		29800	lb
					42300	lb
						Tons
						21.15

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	C2 Cover RGC-Tons-	100	21.15	Tons				Oakland
2	EVL-Env Fee Lg.	100	1	Load				Oakland
3	FUEL-Fuel Surcharg	100		*				Oakland

Total Tax
 Total ticket

THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster, whose name appears on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Dept. of Food and Agriculture.

DRIVER: *[Signature]*

404WMCA



NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number **CAD 981430485** 2. Page 1 of **1** 3. Emergency Response Phone **NRGRES 510 740-1300** 4. Waste Tracking Number **28270-2**

5. Generator's Name and Mailing Address **PORT OF OAKLAND 630 WATER STREET OAKLAND CA 94607** At: **JEFF RUBIN** Generator's Site Address (if different than mailing address) **PORT OF OAKLAND 209 BRUSH STREET OAKLAND CA 94607**
 Generator's Phone: **510 627-1134**

6. Transporter 1 Company Name **Bijleveld Trucking / 545** U.S. EPA ID Number
 7. Transporter 2 Company Name U.S. EPA ID Number

8. Designated Facility Name and Site Address **Waste Management - Altamont 10840 Altamont Road Livermore CA 94550** U.S. EPA ID Number
 Facility's Phone: **925 455-7300** **CAD 981382732**

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit WL/Vol
		No.	Type		
	1. NON HAZARDOUS WASTE SOILD (SOIL WITH HYDROCARBONS)	001	DT	00018	Y
	2.				
	3.				
	4.				

13. Special Handling Instructions and Additional Information
WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT
PROFILE# 55423000
JOB#/PO#: 28270 **TO#: 07-EMRESP-13** **WO#: 026815**

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
 Generator's/Officer's Printed/Typed Name **JEFFREY L. RUBIN** Signature **AGENT ON BEHALF PORT OF OAKLAND** Month **04** Day **27** Year **07**

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
 Transporter Signature (for exports only):

16. Transporter 1 Printed/Typed Name **ASAD BIJLEVELD** Signature Month Day Year
 Transporter 2 Printed/Typed Name **ASAD BIJLEVELD** Signature Month Day Year

17. Discrepancy
 17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection
 Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number
 Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 17a
 Printed/Typed Name Signature Month Day Year **4/27/07**



WEIGHMASTER-Altamont Landfill & Resource Recovery Original
 10840 Altamont Pass Road Ticket# 743250
 Livermore, CA, 94551
 Ph: (925)455-7300

Customer Name NrcEnvironmen Nrc Environment Carrier GEN Altamont Generic
 Ticket Date 04/27/2007 Vehicle# 9090755WT Volume
 Payment Type Credit Account Container
 Manual Ticket# S&S TRK 64
 Hauling Ticket# License#
 Route Billing # 0038257
 State Waste Code Gen EPA ID
 Manifest 28270-3
 Destination
 PG
 Profile 55423000 (**Class II Cover Soil-NRC Environmental**)
 Generator

	Time	Scale	Deputy Weighmaster	Inbound	Gross	72320	lb
In	04/27/2007 08:35:29	Scale1 Inboun	rojasi1841		Tare	30760	lb
Out	04/27/2007 08:35:29		rojasi1841		Net	41560	lb
					Tons	20.78	

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 C2 Cover R6C-Tons-	100	20.78	Tons				Oakland
2 EVL-Env Fee Lg.	100	1	Load				Oakland
3 FUEL-Fuel Surcharg	100		%				Oakland

Total Tax
 Total Ticket

THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster, whose name appears on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Dept. of Food and Agriculture.

DRIVER: _____

404WMCA



NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number: CAD981430465 2. Page 1 of 1 3. Emergency Response Phone: NRCRES 510 740-1380 4. Waste Tracking Number: 28270-3

5. Generator's Name and Mailing Address: PORT OF OAKLAND, 530 WATER STREET, OAKLAND CA 94607. Generator's Site Address (if different than mailing address): PORT OF OAKLAND, 209 BRUSH STREET, OAKLAND CA 94607. Generator's Phone: 510 627-1134

6. Transporter 1 Company Name: SCS Leasing U.S. EPA ID Number. 7. Transporter 2 Company Name U.S. EPA ID Number.

8. Designated Facility Name and Site Address: Waste Management - Alameda, 10840 Alameda Road, Livermore CA 94550. Facility's Phone: 925 455-7800. U.S. EPA ID Number: CAD981382732

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1.	NON-HAZARDOUS WASTE SOILD (SOIL WITH HYDROCARBONS)	001	DT	00018	Y
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information: WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT. PROBLE# 55423000. JOB# / PO# : 28270. TO# : 07-EMRESP-13. WO# : 026815.

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. Generator's/Officer's Printed/Typed Name: JEFFREY RUBIN (AGENT ON BEHALF OF PORT OF OAKLAND). Signature: [Signature]. Month: 04, Day: 27, Year: 07.

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials. Transporter 1 Printed/Typed Name: DASHKA. Signature: [Signature]. Month: 04, Day: 27, Year: 07. Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:

17. Discrepancy. 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection. Manifest Reference Number: 17b. Alternate Facility (or Generator): U.S. EPA ID Number: Facility's Phone: 17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 17a. Printed/Typed Name: Signature: Month: 04, Day: 27, Year: 07.

GENERATOR
INTL
TRANSPORTER
DESIGNATED FACILITY



WEIGHMASTER-Altamont Landfill & Resource Recovery Original
 10840 Altamont Pass Road Ticket# 743254
 Livermore, CA, 94551
 Ph: (925)455-7300

Customer Name NrcEnvironmen Nrc Environment Carrier GEN Altamont Generic
 Ticket Date 04/27/2007 Vehicle# 9038906 Volume
 Payment Type Credit Account Container
 Manual Ticket# PARAM TRK. 491
 Hauling Ticket# License#
 Route Billing # 0038257
 State Waste Code Gen EPA ID
 Manifest 28270-5
 Destination
 PO
 Profile 55423000 ("*Class II Cover Soil-NRC Environmental*")
 Generator

	Time	Scale	Deputy Weighmaster	Inbound	Gross	71500	lb
In	04/27/2007 08:55:44	Scale1	Inbound	rrojasi841	Tare	30260	lb
Out	04/27/2007 08:55:44			rrojasi841	Net	41240	lb
					Tons		20.62

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	C2 Cover R6C-Tons-	100	20.62	Tons				Oakland
2	EVL-Env Fee Lg.	100	1	Load				Oakland
3	FUEL-Fuel Surcharg	100		%				Oakland

Total Tax
 Total Ticket

THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster, whose name appears on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Dept. of Food and Agriculture.

DRIVER: ILC

404WMCA



NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

CAD 981430485

2. Page 1 of 1

3. Emergency Response Phone

NBCRES 510 749-1390

4. Waste Tracking Number

29270-5

5. Generator's Name and Mailing Address

PORT OF OAKLAND
530 WATER STREET
OAKLAND, CA 94607

Att: JEFF RUEIN

Generator's Site Address (if different than mailing address)

PORT OF OAKLAND
209 BRUSH STREET
OAKLAND, CA 94607

Generator's Phone:

510 627-1134

6. Transporter 1 Company Name

S&S FARM-TRK

U.S. EPA ID Number

7. Transporter 2 Company Name

HA

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Waste Management - Altamont
10840 Altamont Road
Livermore, CA 94550

U.S. EPA ID Number

Facility's Phone:

925 455-7300

CAD-0-81382732

9a. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))

10. Containers

No. Type

11. Total Quantity

12. Unit Wt./Vol.

1. NON-HAZARDOUS WASTE SOILD (SOIL WITH HYDROCARBONS)

0 01 DT

00018

Y

13. Special Handling Instructions and Additional Information

WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT
PPE# 55423000
JOB#/PO#: 28270 TO#: 07-EMRESP-13 MO#: 026815

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulation for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name

JEFFREY L. ROBINSON AGENT ON BEHALF OF PORT OF OAKLAND

Signature

Month Day Year

04 27 07

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

S&S FARM-TRK

Signature

Month Day Year

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

U.S. EPA ID Number

17b. Alternate Facility (or Generator)

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator. Certification of receipt of hazardous materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year

[Signature]

07/27/07

GENERATOR

TRANSPORTER INTL

DESIGNATED FACILITY



WEIGHMASTER-Altamont Landfill & Resource Recovery Original
 10840 Altamont Pass Road Ticket# 743258
 Livermore, CA, 94551
 Ph: (925)455-7300

Customer Name NrcEnvironmen Nrc Environment Carrier GEN Altamont Generic
 Ticket Date 04/27/2007 Vehicle# 9D49451 Volume
 Payment Type Credit Account Container
 Manual Ticket# CIA TUCKING 786WT
 Hauling Ticket# License#
 Route Billing # 0038257
 State Waste Code Gen EPA IO
 Manifest 28270-4
 Destination
 PO
 Profile 55423000 (**Class II Cover Soil-NRC Environmental**)
 Generator

	Time	Scale	Deputy Weighmaster	Inbound	Gross	70920	lb
In	04/27/2007 09:04:04	Scale1	Inbound	rrojas1841	Tare	29780	lb
Out	04/27/2007 09:04:04			rrojas1841	Net	41140	lb
					Tons		20.57

Comments

Product	LD%	Qty	UDM	Rate	Tax	Amount	Origin
1 C2 Cover RGC-Tons-	100	20.57	Tons				Oakland
2 EVL-Env Fee Lg.	100	1	Load				Oakland
3 FUEL-Fuel Surcharg	100		%				Oakland

Total Tax
 Total Ticket

THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster, whose name appears on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Dept. of Food and Agriculture.

DRIVER: 

404WMCA



NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

CAD 9 8 1 4 3 0 4 8 5

2. Page 1 of

1

3. Emergency Response Phone

NRCRES 510 748-1380

4. Waste Tracking Number

28270-4

5. Generator's Name and Mailing Address
 PORT OF OAKLAND
 530 WATER STREET
 OAKLAND CA 94607

At: JEFF RUBIN

Generator's Site Address (if different than mailing address)
 PORT OF OAKLAND
 209 BRUSH STREET
 OAKLAND CA 94607

Generator's Phone: 510 627-1134

6. Transporter 1 Company Name

786 CTI CIA TRUCKING

U.S. EPA ID Number

7. Transporter 2 Company Name

SS TRUCKING

U.S. EPA ID Number

8. Designated Facility Name and Site Address
 Waste Management - Alameda
 10840 Alameda Road
 Livermore CA 94550

U.S. EPA ID Number

Facility's Phone: 925-465-7800

CAD 9 8 1 3 8 2 7 3 2

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
	1. NON HAZARDOUS WASTE SOILD (SOIL WITH HYDROCARBONS)	0 0 1	DT	00016	Y
	2.				
	3.				
	4.				

13. Special Handling Instructions and Additional Information

WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT
 PROFILE# 55423000
 JOB#/PO#: 28270

TO#: 07-EMRESP-13 WO#: 026815

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name

JERRY L ROBIN

AGENT ON BEHALF OF PORT OF OAKLAND

Signature

Month Day Year
 04 27 09

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Thomas Spreuer

Signature

[Signature]

Month Day Year
 4 27 09

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

[Signature]

Month Day Year
 4 27 09

APPENDIX H

**WORKPLAN, HEALTH & SAFETY PLAN AND R&M, NRC 40 HOUR HAZWOPER
TRAINING CERTIFICATES**

**WORK PLAN AND HEALTH AND SAFETY PLAN
For
DOCUMENTATION AND OVERSIGHT OF REMOVAL ACTION**

**At
Downtown Oakland CNG Station
205/209 Brush Street
Oakland, CA 94607**

Prepared for

**Environmental Programs & Safety Department
Port of Oakland
530 Water Street
Oakland, CA 94607**

**Under Contract/Resolution No. 5135
ON-CALL ENVIRONMENTAL COMPLIANCE CONSULTING SERVICES**

Prepared by

**R&M Environmental and Infrastructure Engineering, Inc.
7996 Capwell Drive
Oakland, CA 94621**

April 24, 2007

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Appendix A – Analytical Laboratory Reports

Appendix B – Health and Safety Plan

FIGURES

1. Location Map
2. Site Layout
3. CNG Fueling Station
4. Approximate Location where Soil Samples Were Collected on 04/16/07

TABLES

1. Summary of Soil Sample Analytical Results

1.0 INTRODUCTION

Under a joint effort with the City of Oakland, the Port of Oakland is undertaking a project to construct a compressed natural gas (CNG) fueling station at 205/209 Brush Street¹ in Oakland, California (See Figure 1, Location Map; and Figure 2, Site Layout). The CNG station is being constructed by Clean Energy. The major components of the station are shown in Figure 3. Following a drying step, the natural gas is compressed in on-site compressors and sent to dispensers via underground piping. The 205/209 Brush Street is currently an asphalt-paved vacant site. An area of approximately 22ft by 66ft is being excavated to construct the pad on which the equipment will be located. While excavating shallow trenches for CNG piping and electrical conduits within the planned pad area, it was noted that a segment of each trench contained soil that was darker in color and had a solvent-like odor and that the color and odor faded upon exposure to air. Based on this observation, excavation activities were halted pending investigation of the cause of the soil coloration and odor. Some photographs of the site as it exists at this time and showing the site excavation, covered soil stockpiles, CNG equipment that will be installed, etc. follow the Figures in this section.

Upon halting of excavation activities, on April 16, 2007, Geolabs, Inc., a subcontractor to Clean Energy, collected two samples of impacted soil from a location in one of the two piping trenches. Figure 4 is a sketch showing the approximate location where the two samples were collected. The samples were collected from depths of 2 ft and 2.5 ft below ground surface. Soil samples were analyzed by Curtis & Tompkins Analytical Laboratories (Berkeley, California) for the following via indicated methods:

Total petroleum hydrocarbons, as gasoline (TPH-g)	EPA Method 8015B
Benzene, Toluene, ethylbenzene, and xylenes (BTEX)	EPA Method 8021B
Total petroleum hydrocarbons, as diesel (TPH-d)	EPA Method 8015B
Purgeable organics by GC/MS	EPA Methods 5030B/8260B
Title 22 metals (CAM-17 Metals)	EPA Methods/6010/7000

Reports received from the laboratory are contained in Appendix A, with results summarized in Table 1. Based on the results, it appears that acetone may have been the main causative agent for the solvent odor of the darker-color soil that was encountered during trench excavation.

Based on recent field observations and soil sample analytical results, a removal action is planned whereby the impacted soil within the footprint of the building pad will be excavated to a maximum depth of close to the water table, if deemed necessary based on field observations and screening. The excavation will then be backfilled with clean imported soil and compacted to Port's specifications. The excavated soil will be profiled and hauled offsite for proper disposal. Representing the Port, R&M Environmental and Infrastructure Engineering, Inc. (R&M) will support the project by providing the following functions and services:

- ☛ Oversight of the removal action including documentation of field activities and observations.
- ☛ Design and enforcement of a health and safety program that includes air quality monitoring in the work area to ensure worker safety and proactively minimize chemical releases to the environment using screening action levels and perimeter air quality sampling for screening level risk evaluation to off-site receptors.

¹ In some documents, the street address for this site is given as 205 or 209 Brush Street.

- ✦ Prepare a report documenting the work performed.

This work plan, which includes a site health and safety plan as an appendix (Appendix B), describes how R&M will carry out the above functions. NRC Environmental Services (Alameda, CA) will perform the removal action under a separate contract with the Port.

2.0 OVERSIGHT OF REMOVAL ACTION

Tasks and activities for which oversight will be provided and their compliance with pertinent requirements will be documented consist of the following:

- Task 1 - Preparatory activities
- Task 2 - Excavation and stockpiling of excavated materials
- Task 3 - Confirmation sampling and sample analysis
- Task 4 - Backfilling and compaction
- Task 5 - Management of excavated materials
- Task 6 - Environmental protection
- Task 7 - Site restoration
- Task 8 - Work area and perimeter air quality monitoring

The health and safety requirements and the monitoring and oversight to ensure compliance with requirements are described in the Health and Safety Plan presented in Appendix B and in Section 2.8 of this work plan. During the performance of field activities, full compliance with the requirements specified in the health and safety plan will be required and strictly enforced. In addition, good housekeeping and keeping disturbances to the site and interference with the normal day-to-day activities of the neighboring residences and businesses to an absolute minimum will be strongly emphasized throughout the duration of field work. Brief descriptions of the activities involved in the above-tasks follow. As noted previously, R&M's function here is to ensure that these tasks are performed and to document that they have been performed. Except for some tasks, such as confirmation soil sampling and air monitoring in support of health and safety program, which will be performed by R&M, the tasks will be performed by others.

2.1 TASK 1 - PREPARATORY ACTIVITIES

This task involves the following activities:

- ✦ Preparation of (this) work plan and health and safety plan (Appendix B) and coordination with Port's Project Engineer for this work.
- ✦ Coordination with regulatory agencies (e.g., City of Oakland, Alameda County Health Care Services Agency, and Bay Area Air Quality Management District) and securing required permits and approvals.
- ✦ Delineating and preparing the work areas (e.g., for staging equipment and supplies on site and for stockpiling excavated soil).
- ✦ Performing subsurface utility clearance and marking.
- ✦ Finalizing arrangements with various vendors and suppliers for timely delivery of required equipment, field personnel, and supplies and services. This effort to include a

determination that the removal action contractor has prepared and will have available on site various planning documents, such as site health and safety plan and storm water pollution prevention plan, and that personnel assigned to field activities have the required training and certifications, including the 40-hour OSHA health and safety training.

2.2 TASK 2 – EXCAVATION AND STOCKPILING OF EXCAVATED MATERIALS

Excavation or the removal action will occur only within the frontprint of the 22' X 66' building pad. Separation and separate stockpiling of the contaminated soil that must be hauled offsite for disposal from the relatively clean soil that can be reused on site as backfill material is essential to reducing disposal costs. Visual and olfactory observations and field monitoring instruments such as the photoionization detector will be relied upon to identify the contaminated soil for separate stockpiling. Such screening method will also be used as the guide in directing field excavation activities and the extent of over-excavation in specific areas. Large buried objects, such as concrete structures and metals pipes that may be encountered and are removed during excavation, will also be separately stockpiled on plastic sheeting (as necessary).

2.3 TASK 3 - CONFIRMATION SAMPLING AND SAMPLE ANALYSIS

The adequacy of excavation in areas appearing to contain impacted soil (based on field screening) will be confirmed by collecting and analyzing soil samples from the walls and sides of excavation. The total number of samples will depend on the size of the excavation and should consist of each sidewall and floor of the final excavation. Soil samples will be collected by driving a stainless steel sample tube into the sidewall or bottom of excavation and retrieving the tube containing the sample. Depending on accessibility and type of soil encountered, a slide hammer may be used to drive the sampling tube into the soil. Alternatively, the soil samples may be collected from the excavator bucket. Upon retrieval, the sampling tube will be capped with a Teflon square and plastic end cap and then sealed with non-adhesive rubberized tape. Each sample will be labeled with sample location, date, and time and placed in a cooler with ice and delivered to the laboratory (Curtis & Tompkins, Berkeley, CA) under chain of custody protocol. The laboratory will be requested to analyze the sample on the quick-turn-around basis so that results will be available within 24 hours.

Unless field observations and screening indicate a need for analysis of samples for additional analytes, the soil samples will be analyzed for the constituent and constituent categories used in the previous round of sampling, as discussed in Section 1.0

2.4 TASK 4 – BACKFILLING AND COMPACTION

Following the excavation of impacted soils within the footprint of the building pad excavation, the excavation will be backfilled. Depending on the depth of the excavation and the groundwater elevation at the site at the time of excavation, some groundwater accumulation in the excavations is anticipated. This water and any rainwater that may accumulate in the excavation pit will be pumped out just prior to fill material placement. The water removed from the excavation will be contained, profiled, and, depending on its characteristics, either hauled offsite for disposal or discharged into sanitary sewer after securing a discharge permit from the East Bay Municipal District.

Fill material placed in the excavations will be from a virgin quarry (no recycled asphalt or concrete will be used). Soil previously excavated from the excavation and stockpiled on site can also be used as fill material, if test results indicate suitability for return to the excavation.

Backfill material placement and compaction will follow the Port of Oakland's specifications.

2.5 TASK 5 - MANAGEMENT OF EXCAVATED MATERIALS

Field screening methods will be used as the basis for segregation and separate stockpiling of heavily impacted soil that may require hauling for offsite disposal from clean soil that may be reused on-site for backfilling. Also, if significant quantities of recyclable materials are encountered and removed from the excavation area they will be placed in separate stockpiles. The stockpiles will be placed on plastic sheeting and covered with plastic sheeting when materials are not being added or removed from them.

Soil stockpiles that may require offsite disposal will be profiled, with the number of samples to be collected and the required analyses determined by the volume of soil in the stockpile and waste disposal facility profiling requirements. All manifests will be signed by a Port authorized person. Care will be exercised during onsite loading and unloading of trucks to minimize spillage or dust generation. All loaded trucks will be covered with tarp prior to being permitted to depart from the site.

2.6 TASK 6 - ENVIRONMENTAL PROTECTION

This task consists of efforts aimed at minimizing impacts of construction activities on the immediate site area and surroundings. Examples include measures that will prevent (a) entry or discharge of contaminated surface runoff, rainwater, or groundwater accumulated in and removed from the excavation pit, or wastewater generated from equipment washing and cleaning operations into storm drains; (b) debris and dusts being blown or carried offsite by wind or vehicles; and (c) damage to trees and vegetation on site or in adjacent streets by the work vehicles. Straw wattles will be placed and storm drains. These requirements will be reviewed with field personnel at the daily tailgate safety meetings.

2.7 TASK 7 - SITE RESTORATION

This task will involve (a) resurfacing, repairing, or replacing surfaces and structures (e.g., fences) outside the originally designated construction area impacted by construction activities; (b) general site cleanup (removal of construction debris, small tools, left-over supplies, etc.); and (c) demobilization and removal construction equipment

2.8 TASK 8 - WORK AREA AND PERIMETER AIR QUALITY MONITORING

2.8.1 General Considerations and Objectives

In addition to providing oversight and documentation of field activities, R&M is responsible for designing and enforcing a health and safety program that should be protective of the environment and of the health and safety of site workers and the residents and tenants in the general area. This program is described in a site-specific health and plan, prepared in accordance with the standard format for such plans, is presented in Appendix B. A Key element of the health and safety program is the air monitoring that can be broken down into two main categories as follows:

- Air quality monitoring in the work area to ensure worker safety and proactively minimize chemical releases to the atmosphere using screening action levels. This effort can involve use of real-time VOC monitor(s) to continuously monitor and establish an action level with corresponding criteria if that level is exceeded.

- Perimeter air quality sampling for screening level risk evaluation to off-site receptors. This could be accomplished using evacuated Summa canisters or Tedlar bags with a vacuum pump. These samples could be collected at upwind and downwind locations during the entire workday (or when excavation/construction activities are performed). The samples would then be submitted to a laboratory for analysis, with expedited analysis if trigger is exceeded. EPA reference method TO-14A for VOC analysis and additional GC analysis for acetone and/or other ambient air oxygenated hydrocarbons (OHCs) will be used. The following is a list of analytes that would be detectable via EPA Method TO-14A, which include some of the compounds detected in the site soil samples (Table 1):

Dichlorodifluoromethane (Freon 12)	Trichloroethene
Chloromethane	cis-1,3-Dichloropropene
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	trans-1,3-Dichloropropene
Vinyl Chloride	1,1,2-Trichloroethane
Bromomethane	Toluene
Chloroethane	1,2-Dibromoethane
Trichlorofluoromethane (Freon 11)	Tetrachloroethylene
1,1-Dichloroethene	Chlorobenzene
Methylene Chloride	Ethylbenzene
trans-1,2-Dichloroethene	m-Xylene
Trichlorotrifluoroethane (Freon 113)	p-Xylene
1,1-Dichloroethane	Styrene
cis-1,2-Dichloroethene	1,1,2,2-Tetrachloroethane
Chloroform	o-Xylene
1,2-Dichloroethane	1,3,5-Trimethylbenzene
1,1,1-Trichloroethane	1,2,4-Trimethylbenzene
Benzene	1,3-Dichlorobenzene
Carbon Tetrachloride	1,2-Dichlorobenzene
1,2-Dichloropropane	1,4-Dichlorobenzene
	1,2,4-Trichlorobenzene
	Hexachloro-1,3-Butadiene

2.8.2 Regulations and Advisories

Federal and state health and safety regulatory agencies have developed regulatory standards or published advisories on safe exposure limits for many chemicals encountered in the work environment. These action or advisory limits will be used, as trigger levels during site monitoring to implement corrective actions or to stop work, as deemed appropriate.

As noted in Table 1, acetone and trimethylbenzene isomers appear to represent the type of organic solvents likely to be encountered in the impacted site soil. However, these chemicals in general, and acetone, in particular, originate from both natural and anthropogenic (man-made) sources and are present in the urban air typically at low concentrations. For example, natural sources of emission for acetone include plants and trees, volcanic eruptions, forest fires, and insects and microbes². Acetone is also produced endogenously and expired in human breath. Some important anthropogenic sources of acetone in the air include vehicular exhaust, chemical

² U.S. Department of Health and Human Services, Public Health Service, Agency for Toxic Substances and Disease Registry, "Toxicological Profile for Acetone", May 1994.

manufacturing, tobacco smoke, wood burning and pulping, refuse and polyethylene combustion, petroleum production, certain landfill sites, and solvent use.

The Occupational Safety and Health Administration (OSHA) has set a maximum concentration limit in workplace air of 1,000 parts of acetone per million parts of air (1,000 ppm) for an 8-hour workday over a 40-hour week to protect workers. The National Institute for Occupational Safety and Health (NIOSH) recommends an acetone exposure limit of 250 ppm in workplace air for up to a 10-hour workday over a 40-hour workweek. NIOSH recommended exposure limit for 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene is a time-weighted average of 25 ppm (125 mg/m³).

2.8.3 Air Monitoring, Sampling Equipment, and VOC Trigger Level

Multi-sensor air monitoring equipment (e.g., the SentryRAE or MultiRAE) will be used for real-time on-site air monitoring. The unit will be equipped with photoionization detector for total VOC measurement and other sensors (e.g., for measuring percent lower explosive limit or percent oxygen), as appropriate. The data from all the instruments will be downloaded to a personal computer on a daily basis and all data will be available on-site. In addition to automatic data logging, readings will be recorded onto the field forms every fifteen minutes during duration of monitoring.

An on-site monitoring breath zone action level of 10 ppm for a 1 minute basis with spikes not to exceed 25ppm and a soil action level of 20 ppm, which are significantly less than the regulatory requirement and recommended exposure levels for acetone, has been selected as the trigger level for initiating sampling to investigate source of possible chemical releases. Such sampling and analysis may include use of colorimetric chemical-specific gas detection tubes (Drager tubes) for on-site gas analysis or collection of gas samples in Summa canisters or Tedlar bags that will be sent to an offsite laboratory for quick (24-hour) turn-around analysis. Confirmation of high concentrations of specific chemicals of concern would require modification to operational procedures, use of engineering controls, and ultimately work stoppage.

3.0 DOCUMENTATION AND REPORTING

R&M's oversight function includes documentation of field activities, events, air monitoring, and observations and of circumstances surrounding them. In addition, throughout the course of the project R&M will keep the Port's Project Manager abreast of activities and findings, and will present recommendations as deemed appropriate. The methods described below will be used to accurately document field activities and events and to communicate with the Port's Project Manager.

3.1 FIELD LOGBOOKS

Bound books will be used as field logbooks. The pages of the logbook will be numbered consecutively and pages will not be removed for any reason. Entries will be made in indelible ink.

Logbooks will be used to document field activities. Because the logbook is a documentation of field activities, it will contain only facts and observations. Each field person will keep a personal logbook of events. Should a page include entries by anyone besides the owner, the page will be signed by all personnel making entries on that page and entries initialized. Field logbooks will be

identified by a project-specific number and stored in a project file while not in use. At the completion of the project, the logbooks will be stored in the permanent project file.

Entries in the logbook for sampling events will include, but not necessarily be limited to, the following:

- ✦ Project name and number
- ✦ Date and time of observations
- ✦ Work location
- ✦ Nature of work being performed (excavation, backfilling, compaction, etc.)
- ✦ Materials, supplies, and equipment being used (backhoe, fill material, hand tools, monitoring equipment, etc.).
- ✦ Weather conditions (general)
- ✦ Sketches showing the locations where specific observations are made
- ✦ Name and affiliation of persons visiting the work site
- ✦ General observations pertinent to the project
- ✦ Monitoring event data
- ✦ Reference to photographs taken
- ✦ Problems encountered and corrective actions taken

3.2 PHOTOGRAPHS

A digital camera will be used to obtain color photographs of key events and observations. The date, time, location, and description of the activity photographed will be recorded in the field logbook.

3.3 USE OF SPECIAL FORMS

In addition to the information recorded in the field logbook, specially prepared forms will be completed by the R&M field representatives to document specific activities (e.g., tailgate safety meetings) or in support of certain functions (e.g., use of chain-of-custody forms that accompany samples that are delivered to laboratory for analysis, or documentation of calibration of monitoring devices).

3.4 DAILY ACTIVITY REPORTS

R&M will communicate with the Port's Project Manager and keep him abreast of the work progress via regular telephone calls and electronic mails. In addition, R&M will submit formal daily activity reports that summarize daily accomplishments, problems encountered and how resolved, and activities planned for the next reporting period.

3.4 FINAL OVERSIGHT REPORT

Following completion of the field activities, an oversight report will be drafted and submitted to the Port for review and approval. The comments received from the Port will be incorporated into a revised report that will be submitted to the Port.

The oversight report will present documentation of field activities for which oversight was provided, describe how assessment and confirmation sampling were carried out and the results obtained, and discuss rationale for assessing the adequacy of removal action. Included as appendices to the report will be support documentation, including the following:

- ❖ Copies of Daily Activity Reports
- ❖ Chain of custody records
- ❖ Copies of signed laboratory reports and data validation reports
- ❖ Copies of "TSDF to Generator" Manifests for all hazardous wastes (if any) hauled offsite
- ❖ Documentation of the volume disposed and final destination of all non-manifested contaminated soil disposed offsite.
- ❖ Logs of work site and perimeter air monitoring
- ❖ Photographs with annotations

TABLE 1
ANALYTICAL RESULTS FOR SOIL SAMPLES COLLECTED ON 4/16/07

Soil Sample	#1 mg/Kg	#2 mg/Kg	ESL ¹	STLC mg/L	TTLc mg/Kg
TITLE 22 METALS					
Antimony	ND<0.5	ND<0.5	40	15	500
Arsenic	1.5	1.6	5.5	5	500
Barium	73	55	1,500	100	10,000
Beryllium	0.17	0.17	8	0.75	75
Cadmium	ND<0.25	ND<0.25	7.4	1	100
Chromium	28	30.00	58	5	500*, 2500**
Cobalt	3.8	4.2	10	80	8,000
Copper	8.3	6.1	230	25	2,500
Lead	19	1.7	750	5	1,000
Mercury	0.13	0.038	10	0.2	20
Molybdenum	ND<0.25	ND<0.25	40	350	3,500
Nickel	16	17	150	20	2,000
Selenium	ND<0.5	ND<0.5	10	1	100
Silver	ND<0.25	ND<0.25	40	5	500
Thallium	ND<0.5	ND<0.5	13	7	700
Vanadium	20	21	200	24	2,400
Zinc	21	14	600	250	5,000

- 1) Samples collected by Geolabs on 4/16/2007 (see Figure 4 for sample location)
 2) Sample No. 1 depth - 2.0 feet bgs; Sample No. 2 depth = 2.5 feet bgs
 3) Samples analyzed by Curtis and Tompkins, Ltd. (See Appendix B for laboratory report)
 ND = Not detected

* for Chromium (VI)

** for Chromium (III)

* = ESLs from Table B, 'ESLs Shallow Soils ($\leq 3m$ bgs)

Groundwater IS NOT a Current of Potential Source of Drinking Water in
 "Screening for Environmental Concerns at Sites with Contaminated Soil
 and Groundwater," report prepared by California Regional Water Quality

TABLE 1, Continued
ANALYTICAL RESULTS FOR SOIL SAMPLES COLLECTED ON 4/16/07

Soil Sample	Unit	#1	#2
TPH (8015B)			
Gasoline	mg/Kg	1.9	9.1
Diesel	mg/Kg	13	39
BTEX (8020)			
Benzene	µg/Kg	<5.1	<5.1
Toluene	µg/Kg	7.4	<5.1
Ethylbenzene	µg/Kg	23	<5.1
Xylenes	µg/Kg	14	<5.1
Purgable Organics (8260B)			
Acetone	µg/Kg	54	27
2-butanone	µg/Kg	16	<9.4
Benzene	µg/Kg	5.2	<4.7
Total xylenes	µg/Kg	21.2	<4.7
Isopropylbenzene	µg/Kg	<4.7	7.4
Propylbenzene	µg/Kg	<4.7	9.2
1,3,5-trimethylbenzene	µg/Kg	8.1	5.6
1,2,4-trimethylbenzene	µg/Kg	22	7.5
Sec-butylbenzene	µg/Kg	<4.7	7.8
Para-isopropyl toluene	µg/Kg	<4.7	6
n-butylbenzene	µg/Kg	<4.7	5.1
Napthalene	µg/Kg	<4.7	14


Notes:

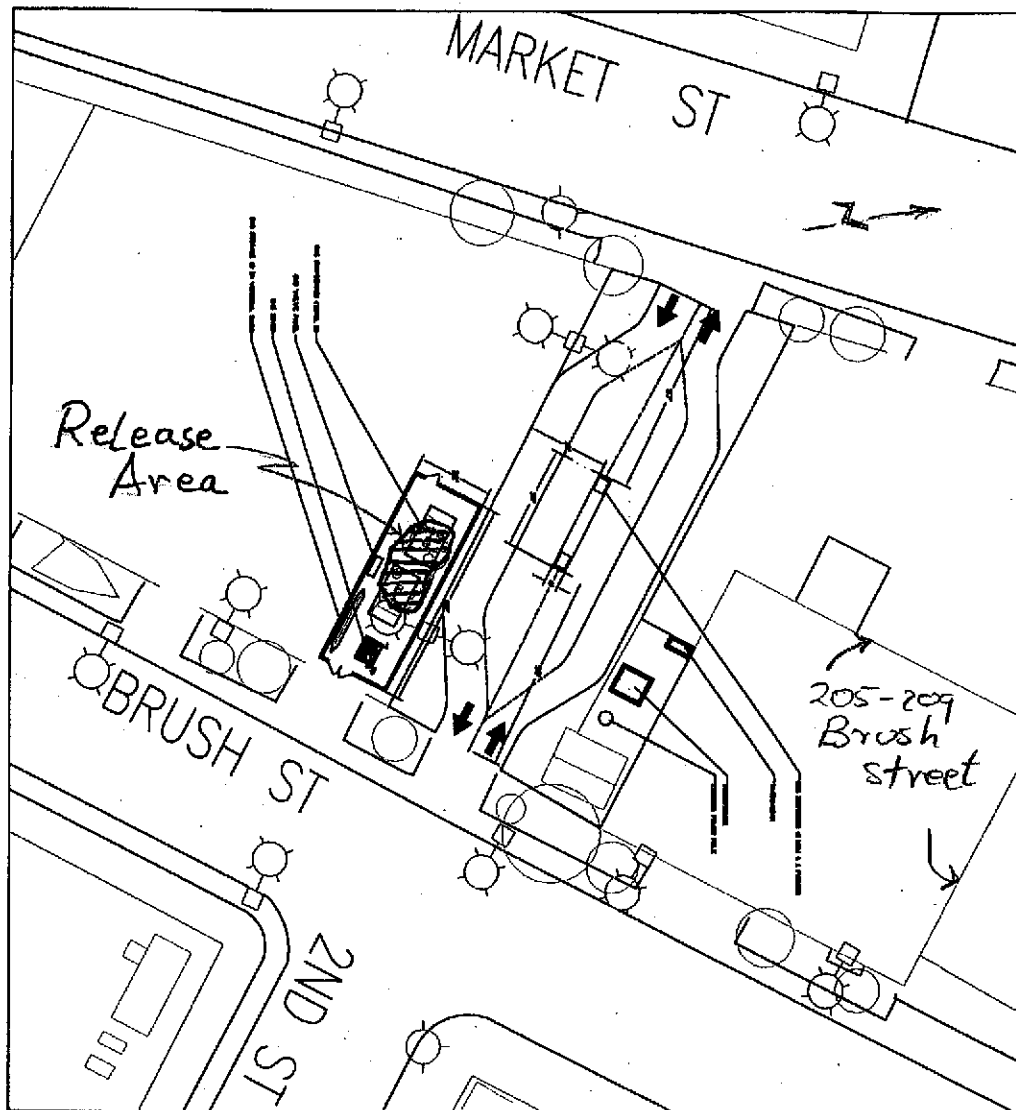
- 1) Samples collected by Geolabs on 4/16/2007 (see Figure 4 for sample location)
- 2) Sample No. 1 depth - 2.0 feet bgs; Sample No. 2 depth = 2.5 feet bgs
- 3) Samples analyzed by Curtis and Tompkins, Ltd. (See Appendix B for laboratory report)



DESIGNED BY:	CHECKED BY:
DRAWN BY: CA	SCALE:
PROJECT NO:	

LOCATION MAP
209 BRUSH STREET
OAKLAND, CA

DATE: 4/20/2007	FIGURE: 1
 R&M Environmental and Infrastructure Engineering, Inc.	



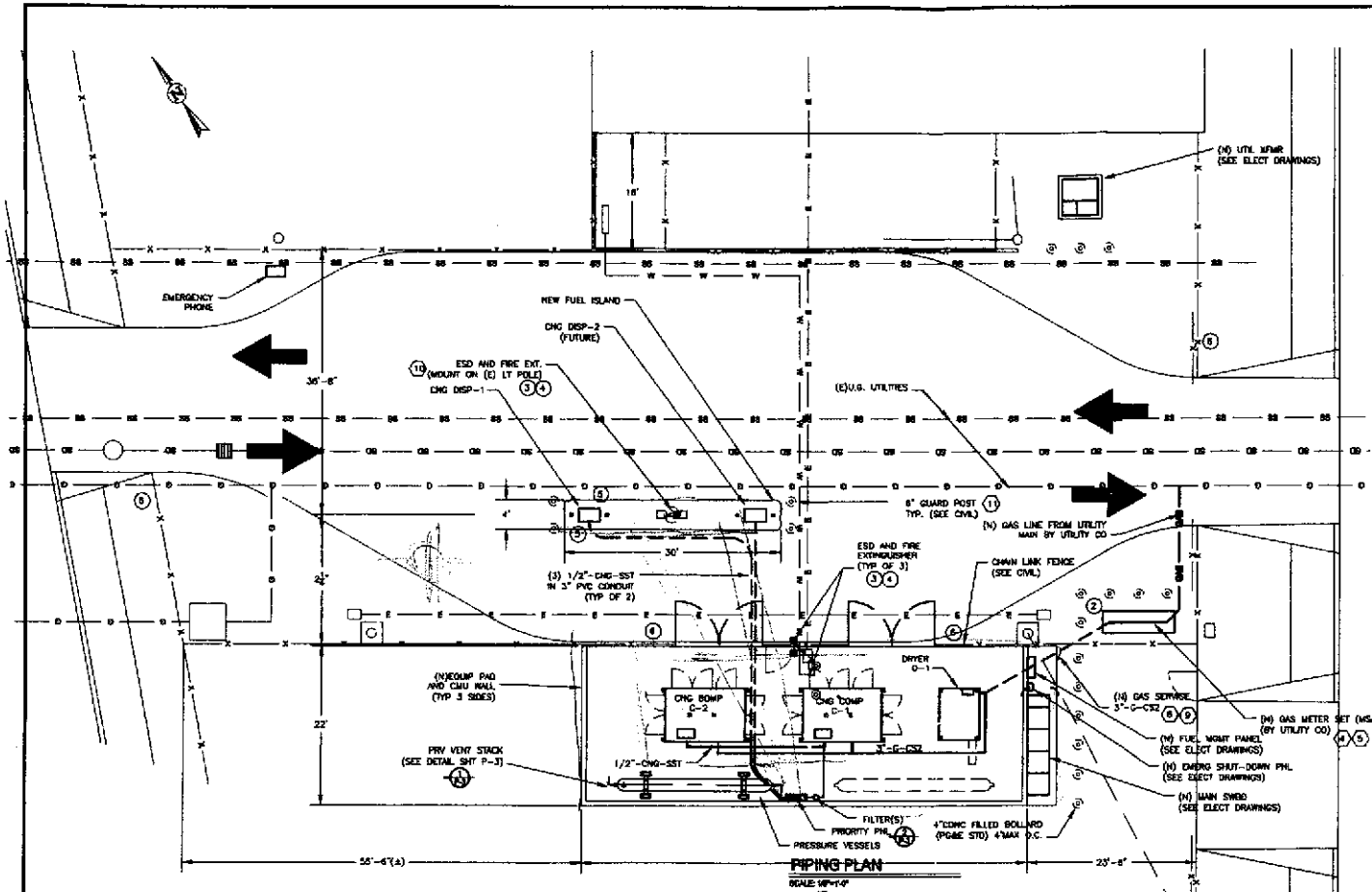
NO.	DATE	DESCRIPTION

FIGURE 2 - SITE LAYOUT
 CNG STATION
 OAKLAND - JACK LONDON SQUARE



3020 OLD RANCH PARKWAY
 SUITE 200
 SEAL BEACH, CA 90740
 TEL: (562) 493-2804
 FAX: (562) 493-4532

GA-1
 N.T.S.
 1.1



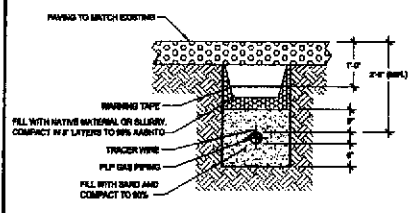
PIPING PLAN
SCALE: 1/8" = 1'-0"

SHEET NOTES:

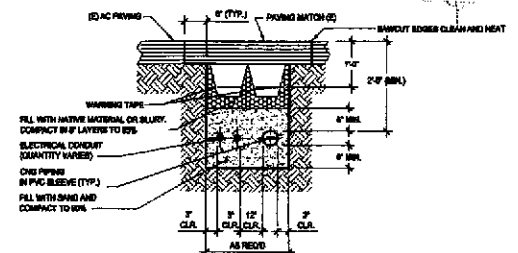
1. COORDINATE EQUIPMENT INSTALLATION AND PIPE ROUTING WITH OTHER WORK INCLUDING CONCRETE AND ELECTRICAL.
2. REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3. VERIFY LOCATION OF EXISTING UTILITIES AND UNDERGROUND CONDUITS PRIOR TO CONSTRUCTION.
4. PROVIDE METER PAD AND TRAFFIC BARRIERS PER POSE REQUIREMENTS.
5. COORDINATE ROUTING AND INSTALLATION OF NEW GAS AND ELECTRIC SERVICE WITH POSE.
6. INSTALLATION SHALL MEET PIPING GAS & ELECTRIC STANDARDS INCLUDING ESDS, ETC. REFER TO SPEC.
7. PROVIDE FULL DEPTH PIPING BLEEDS AROUND ALL PRIMARY PIPING OR TUBING PASSING THROUGH CONCRETE. SEAL VOID BETWEEN PIPING AND BLEEDS WITH WEATHER RESISTANT SEALANT.
8. EQUIPMENT DIMENSIONS AND TIE-IN POINTS ARE APPROXIMATE. COORDINATE INSTALLATION IN THE FIELD BASED UPON ACTUAL EQUIPMENT PROVIDED.
9. BURIED STEEL PIPING SHALL BE ELECTRICALLY ISOLATED FROM ANY GROUND PIPING, STRUCTURES AND EQUIPMENT, AND CATHODICALLY PROTECTED IN ACCORDANCE WITH REQUIREMENTS OF THE NATIONAL FUEL GAS CODE AND NATIONAL ASSOCIATION OF CORROSION ENGINEERS (NACE) STANDARD RP020-2002.
10. EMERGENCY SHUT-DOWN BUTTON (ESD) SHALL BE LOCATED WITHIN 100 FEET OF DISPENSERS.
11. HAND DIG TO ENSURE ADEQUATE CLEARANCE IS MAINTAINED FROM EXISTING UNDERGROUND UTILITIES WHERE SHOWN.

LEGEND:

- ① MESSAGE. SEE SHEET P-4 FOR DETAILS



SECTION - GAS SERVICE
SCALE: 3/4" = 1'-0"



SECTION - CNG PIPING

30210 OLD RANCH PARKWAY
SUITE 200
SEAL BEACH, CA 90740
TEL: (562) 493-2804
FAX: (562) 493-4532



Figure 3 - CNG FUELING STATION
ELECTRICAL
208 BRUSH STREET
OAKLAND, CALIFORNIA
PIPING PLAN AND SECTIONS



JOB SITE

REV	DATE	REVISIONS

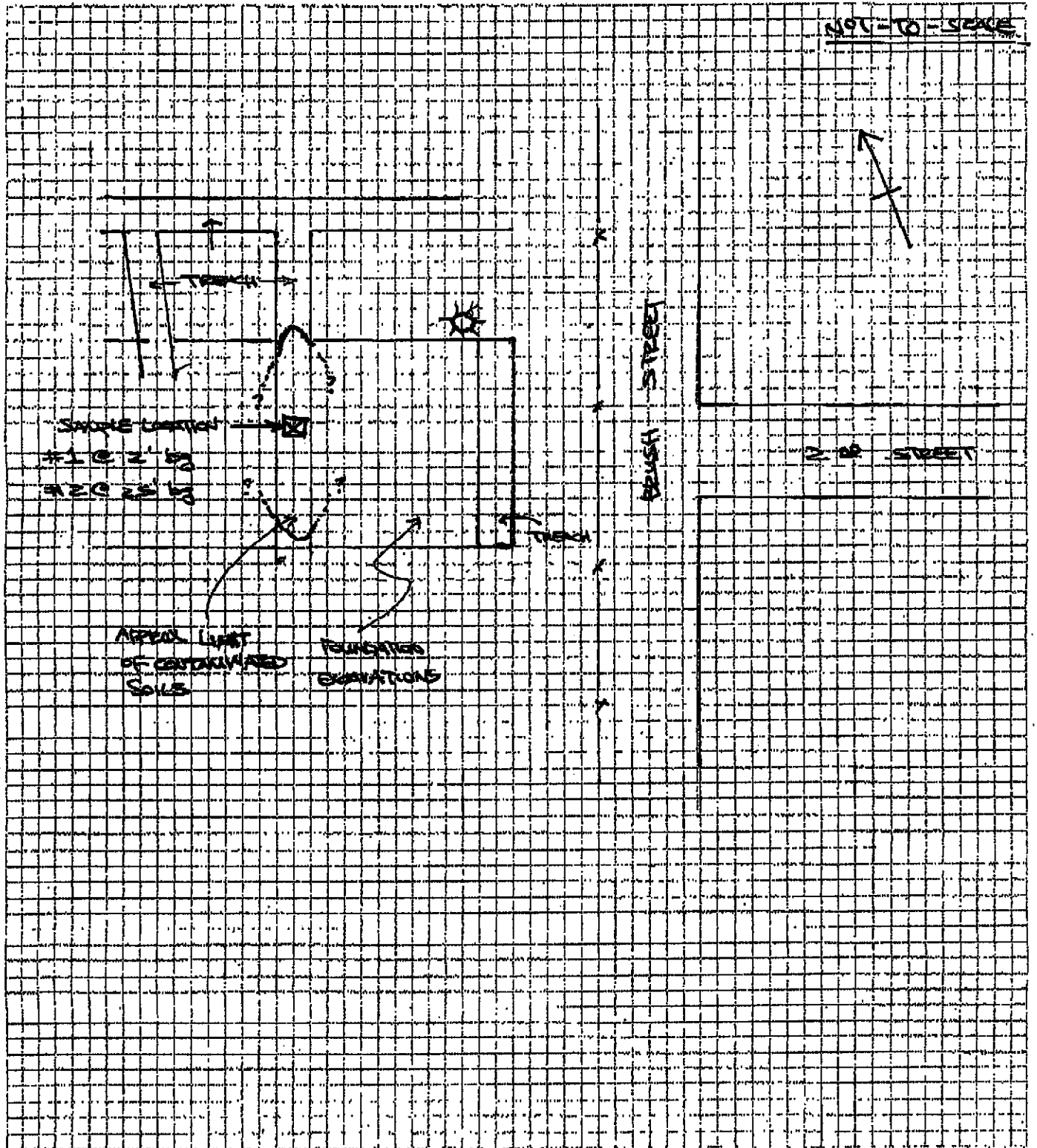
Scale: AS SHOWN
Date: 1/18/07
Drawn by: TOM
Checked by: AS SHOWN

Figure 4 - Approximate Location where Soil Samples Were Collected on 04/16/07



PROJECT CNG STATION @ 2ND & BUSH
(04021-00)
SUBJECT SOIL SAMPLE LOCATIONS

PAGE 1 OF 1
DATE 4/16/07



GEOLABS, INC.

“Downtown Oakland CNG Station Project”



Photo #1 (4/20/2007)– One of the two CNG Compressor Units for the Fueling Station. Equipment pad is located immediately behind the compressor unit. View towards the northwest.

“Downtown Oakland CNG Station Project”



Photo #2 (4/20/2007)– A view of the area being excavated for building pad construction, note the accumulated rainwater on the plastic sheeting covering the equipment pad excavation.

(Looking west from the adjacent sidewalk on Brush Street)

“Downtown Oakland CNG Station Project”



Photo #3 (4/20/2007) – Another view of the building pad excavation area. Equipment pad excavation is on the left side and the dispenser excavation is on the far right side of the photograph.

“Downtown Oakland CNG Station Project”



Photo #4 (4/20/2007) - Pile of excavated soil on and under protective plastic cover

“Downtown Oakland CNG Station Project”



Photo #5 (4/20/2007) - Two of the three saltwater intrusion monitoring wells located outside but adjacent to the site at the terminus of Brush Street

(Note: The numbers indicated the depth of each well; the third well, not shown here, is 100 ft deep)

APPENDIX A

**CERTIFIED ANALYTICAL REPORT FOR SOIL/GROUNDWATER SAMPLING AND
CHAIN-OF-CUSTODY DOCUMENTATION**

- ✦ **Curtis and Tompkins, Ltd. Laboratory Report Nos. 194170 and 194289 for two soil samples collected by Geolabs, Inc. on 04/16/07**

California Title 26 Metals

Lab #:	194289	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	METHOD
Project#:	OL1081-00		
Field ID:	#1	Diln Fac:	1.000
Lab ID:	194289-001	Sampled:	04/16/07
Matrix:	Soil	Received:	04/16/07
Units:	mg/Kg	Prepared:	04/23/07
Basis:	as received	Analyzed:	04/23/07

Analyte	Result	RL	Batch#	Analysis
Antimony	ND	0.50	124423 EPA 6010B	
Arsenic	1.5	0.26	124423 EPA 6010B	
Barium	73	0.26	124423 EPA 6010B	
Beryllium	0.17	0.10	124423 EPA 6010B	
Cadmium	ND	0.26	124423 EPA 6010B	
Chromium	28	0.26	124423 EPA 6010B	
Cobalt	3.8	0.26	124423 EPA 6010B	
Copper	8.3	0.26	124423 EPA 6010B	
Lead	19	0.16	124423 EPA 6010B	
Mercury	0.13	0.020	124441 EPA 7471A	
Molybdenum	ND	0.26	124423 EPA 6010B	
Nickel	16	0.26	124423 EPA 6010B	
Selenium	ND	0.50	124423 EPA 6010B	
Silver	ND	0.26	124423 EPA 6010B	
Thallium	ND	0.50	124423 EPA 6010B	
Vanadium	20	0.26	124423 EPA 6010B	
Zinc	21	1.0	124423 EPA 6010B	

ND = Not Detected
 RL = Reporting Limit

California Title 26 Metals

Lab #:	194289	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	METHOD
Project#:	OL1081-00		
Field ID:	#2	Diln Fac:	1.000
Lab ID:	194289-002	Sampled:	04/16/07
Matrix:	Soil	Received:	04/16/07
Units:	mg/Kg	Prepared:	04/23/07
Basis:	as received	Analyzed:	04/23/07

Analyte	Result	RL	Batch#	Analysis
Antimony	ND	0.50	124423	EPA 6010B
Arsenic	1.6	0.25	124423	EPA 6010B
Barium	55	0.25	124423	EPA 6010B
Beryllium	0.17	0.10	124423	EPA 6010B
Cadmium	ND	0.25	124423	EPA 6010B
Chromium	30	0.25	124423	EPA 6010B
Cobalt	4.2	0.25	124423	EPA 6010B
Copper	6.1	0.25	124423	EPA 6010B
Lead	1.7	0.15	124423	EPA 6010B
Mercury	0.038	0.020	124441	EPA 7471A
Molybdenum	ND	0.25	124423	EPA 6010B
Nickel	17	0.25	124423	EPA 6010B
Selenium	ND	0.50	124423	EPA 6010B
Silver	ND	0.25	124423	EPA 6010B
Thallium	ND	0.50	124423	EPA 6010B
Vanadium	21	0.25	124423	EPA 6010B
Zinc	14	1.0	124423	EPA 6010B

ND = Not Detected
 RL = Reporting Limit

Batch QC Report

California Title 26 Metals

Lab #:	194289	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	METHOD
Project#:	OL1081-00	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC384649	Batch#:	124423
Matrix:	Soil	Prepared:	04/23/07
Units:	mg/Kg	Analyzed:	04/23/07
Basis:	as received		

Analyte	Result	RL
Antimony	ND	0.50
Arsenic	ND	0.25
Barium	ND	0.25
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.25
Cobalt	ND	0.25
Copper	ND	0.25
Lead	ND	0.15
Molybdenum	ND	0.25
Nickel	ND	0.25
Selenium	ND	0.50
Silver	ND	0.25
Thallium	ND	0.50
Vanadium	ND	0.25
Zinc	ND	1.0

ND = Not Detected
 RL = Reporting Limit

Batch QC Report

California Title 26 Metals			
Lab #:	194289	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	METHOD
Project#:	OL1081-00	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	124423
Units:	mg/Kg	Prepared:	04/23/07
Basis:	as received	Analyzed:	04/23/07
Diln Fac:	1.000		

Type: BS Lab ID: QC384650

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	104.3	104	80-120
Arsenic	50.00	55.00	110	80-120
Barium	100.0	108.9	109	80-120
Beryllium	2.500	2.888	116	80-120
Cadmium	10.00	11.60	116	80-120
Chromium	100.0	109.6	110	80-120
Cobalt	25.00	26.29	105	80-120
Copper	12.50	13.43	107	80-120
Lead	100.0	109.1	109	80-120
Molybdenum	20.00	22.97	115	80-120
Nickel	25.00	26.56	106	80-120
Selenium	50.00	54.96	110	80-120
Silver	10.00	10.69	107	80-120
Thallium	50.00	55.87	112	80-120
Vanadium	25.00	27.17	109	80-120
Zinc	25.00	26.12	104	80-120

Type: BSD Lab ID: QC384651

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	105.8	106	80-120	1	20
Arsenic	50.00	54.98	110	80-120	0	20
Barium	100.0	107.8	108	80-120	1	20
Beryllium	2.500	2.855	114	80-120	1	20
Cadmium	10.00	11.65	117	80-120	0	20
Chromium	100.0	108.4	108	80-120	1	20
Cobalt	25.00	26.08	104	80-120	1	20
Copper	12.50	13.20	106	80-120	2	20
Lead	100.0	108.8	109	80-120	0	20
Molybdenum	20.00	22.96	115	80-120	0	20
Nickel	25.00	26.51	106	80-120	0	20
Selenium	50.00	54.13	108	80-120	2	20
Silver	10.00	10.61	106	80-120	1	20
Thallium	50.00	55.07	110	80-120	1	20
Vanadium	25.00	26.88	108	80-120	1	20
Zinc	25.00	25.70	103	80-120	2	20

RPD= Relative Percent Difference

Batch QC Report

California Title 26 Metals			
Lab #:	194289	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	METHOD
Project#:	OL1081-00	Analysis:	EPA 6010B
Field ID:	#1	Batch#:	124423
MSS Lab ID:	194289-001	Sampled:	04/16/07
Matrix:	Soil	Received:	04/16/07
Units:	mg/Kg	Prepared:	04/23/07
Basis:	as received	Analyzed:	04/23/07
Diln Fac:	1.000		

Type: MS Lab ID: QC384652

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	<0.09082	93.46	57.54	62	1-129
Arsenic	1.538	46.73	50.25	104	72-120
Barium	72.71	93.46	171.1	105	49-138
Beryllium	0.1748	2.336	2.808	113	80-120
Cadmium	0.06641	9.346	10.52	112	72-120
Chromium	27.54	93.46	125.7	105	63-122
Cobalt	3.812	23.36	27.29	100	61-120
Copper	8.301	11.68	20.63	106	59-137
Lead	19.19	93.46	116.8	104	55-122
Molybdenum	0.06600	18.69	19.76	105	66-120
Nickel	15.69	23.36	40.18	105	45-139
Selenium	<0.04910	46.73	48.61	104	73-120
Silver	<0.05955	9.346	9.913	106	53-120
Thallium	<0.08918	46.73	48.64	104	64-120
Vanadium	20.06	23.36	44.35	104	55-139
Zinc	20.95	23.36	43.64	97	49-140

Type: MSD Lab ID: QC384653

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	97.09	60.62	62	1-129	1	23
Arsenic	48.54	53.40	107	72-120	2	20
Barium	97.09	173.8	104	49-138	1	23
Beryllium	2.427	2.929	113	80-120	1	20
Cadmium	9.709	11.37	116	72-120	4	20
Chromium	97.09	129.8	105	63-122	0	20
Cobalt	24.27	28.78	103	61-120	2	23
Copper	12.14	20.89	104	59-137	1	20
Lead	97.09	121.7	106	55-122	1	26
Molybdenum	19.42	20.88	107	66-120	2	20
Nickel	24.27	41.32	106	45-139	1	26
Selenium	48.54	51.47	106	73-120	2	20
Silver	9.709	10.37	107	53-120	1	22
Thallium	48.54	50.92	105	64-120	1	20
Vanadium	24.27	45.74	106	55-139	1	20
Zinc	24.27	43.97	95	49-140	1	23

RPD= Relative Percent Difference

Batch QC Report

California Title 26 Metals			
Lab #:	194289	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	METHOD
Project#:	OL1081-00	Analysis:	EPA 7471A
Analyte:	Mercury	Basis:	as received
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC384727	Batch#:	124441
Matrix:	Soil	Prepared:	04/23/07
Units:	mg/Kg	Analyzed:	04/23/07

Result	RL
ND	0.020

ND = Not Detected
RL = Reporting Limit

Batch QC Report

California Title 26 Metals			
Lab #:	194289	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	METHOD
Project#:	OL1081-00	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Matrix:	Soil	Batch#:	124441
Units:	mg/Kg	Prepared:	04/23/07
Basis:	as received	Analyzed:	04/23/07

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC384728	0.5000	0.4620	92	80-120		
BSD	QC384729	0.5000	0.4640	93	80-120	0	20

RPD= Relative Percent Difference

Batch QC Report

California Title 26 Metals			
Lab #:	194289	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	METHOD
Project#:	OL1081-00	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	124441
MSS Lab ID:	194221-004	Sampled:	04/18/07
Matrix:	Soil	Received:	04/18/07
Units:	mg/Kg	Prepared:	04/23/07
Basis:	as received	Analyzed:	04/23/07

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC384731	0.007700	0.5000	0.5410	107	67-143		
MSD	QC384732		0.5000	0.5070	100	67-143	6	23

RPD= Relative Percent Difference

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report			
Lab #:	194170	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	EPA 5030B
Project#:	OL1081-00	Analysis:	EPA 8021B
Type:	LCS	Basis:	as received
Lab ID:	QC384048	Diln Fac:	1.000
Matrix:	Soil	Batch#:	124267
Units:	ug/Kg	Analyzed:	04/17/07

Analyte	Spiked	Result	%REC	Limits
Benzene	100.0	86.53	87	80-120
Toluene	100.0	86.33	86	80-120
Ethylbenzene	100.0	96.47	96	80-120
m,p-Xylenes	100.0	91.76	92	80-120
o-Xylene	100.0	90.42	90	80-120

Surrogate	%REC	Limits
Trifluorotoluene (PID)	88	63-142
Bromofluorobenzene (PID)	81	70-129

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	194170	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	EPA 5030B
Project#:	OL1081-00	Analysis:	EPA 8015B
Type:	LCS	Basis:	as received
Lab ID:	QC384049	Diln Fac:	1.000
Matrix:	Soil	Batch#:	124267
Units:	mg/Kg	Analyzed:	04/17/07

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	10.00	8.886	89	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	117	70-132
Bromofluorobenzene (FID)	110	66-138

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report			
Lab #:	194170	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	EPA 5030B
Project#:	OL1081-00	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	194211-008	Batch#:	124267
Matrix:	Soil	Sampled:	04/17/07
Units:	mg/Kg	Received:	04/17/07
Basis:	as received	Analyzed:	04/17/07

Type: MS Lab ID: QC384078

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.06223	9.804	6.567	66	36-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	103	70-132
Bromofluorobenzene (FID)	103	66-138

Type: MSD Lab ID: QC384079

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.10	6.925	68	36-120	2	29

Surrogate	%REC	Limits
Trifluorotoluene (FID)	107	70-132
Bromofluorobenzene (FID)	97	66-138

RPD= Relative Percent Difference

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	194170	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	EPA 5030B
Project#:	OL1081-00	Analysis:	EPA 8021B
Type:	LCS	Basis:	as received
Lab ID:	QC384221	Diln Fac:	1.000
Matrix:	Soil	Batch#:	124310
Units:	ug/Kg	Analyzed:	04/18/07

Analyte	Spiked	Result	%REC	Limits
Benzene	100.0	102.8	103	80-120
Toluene	100.0	100.2	100	80-120
Ethylbenzene	100.0	103.7	104	80-120
m,p-Xylenes	100.0	111.0	111	80-120
o-Xylene	100.0	110.8	111	80-120

Surrogate	%REC	Limits
Trifluorotoluene (PID)	108	63-142
Bromofluorobenzene (PID)	122	70-129

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report			
Lab #:	194170	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	EPA 5030B
Project#:	OL1081-00	Analysis:	EPA 8015B
Type:	LCS	Basis:	as received
Lab ID:	QC384222	Diln Fac:	1.000
Matrix:	Soil	Batch#:	124310
Units:	mg/Kg	Analyzed:	04/18/07

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	10.00	8.939	89	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	110	70-132
Bromofluorobenzene (FID)	125	66-138

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report			
Lab #:	194170	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	EPA 5030B
Project#:	OL1081-00	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	194179-006	Batch#:	124310
Matrix:	Soil	Sampled:	04/09/07
Units:	mg/Kg	Received:	04/09/07
Basis:	as received	Analyzed:	04/18/07

Type: MS Lab ID: QC384257

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.06680	9.901	9.120	91	36-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	108	70-132
Bromofluorobenzene (FID)	127	66-138

Type: MSD Lab ID: QC384258

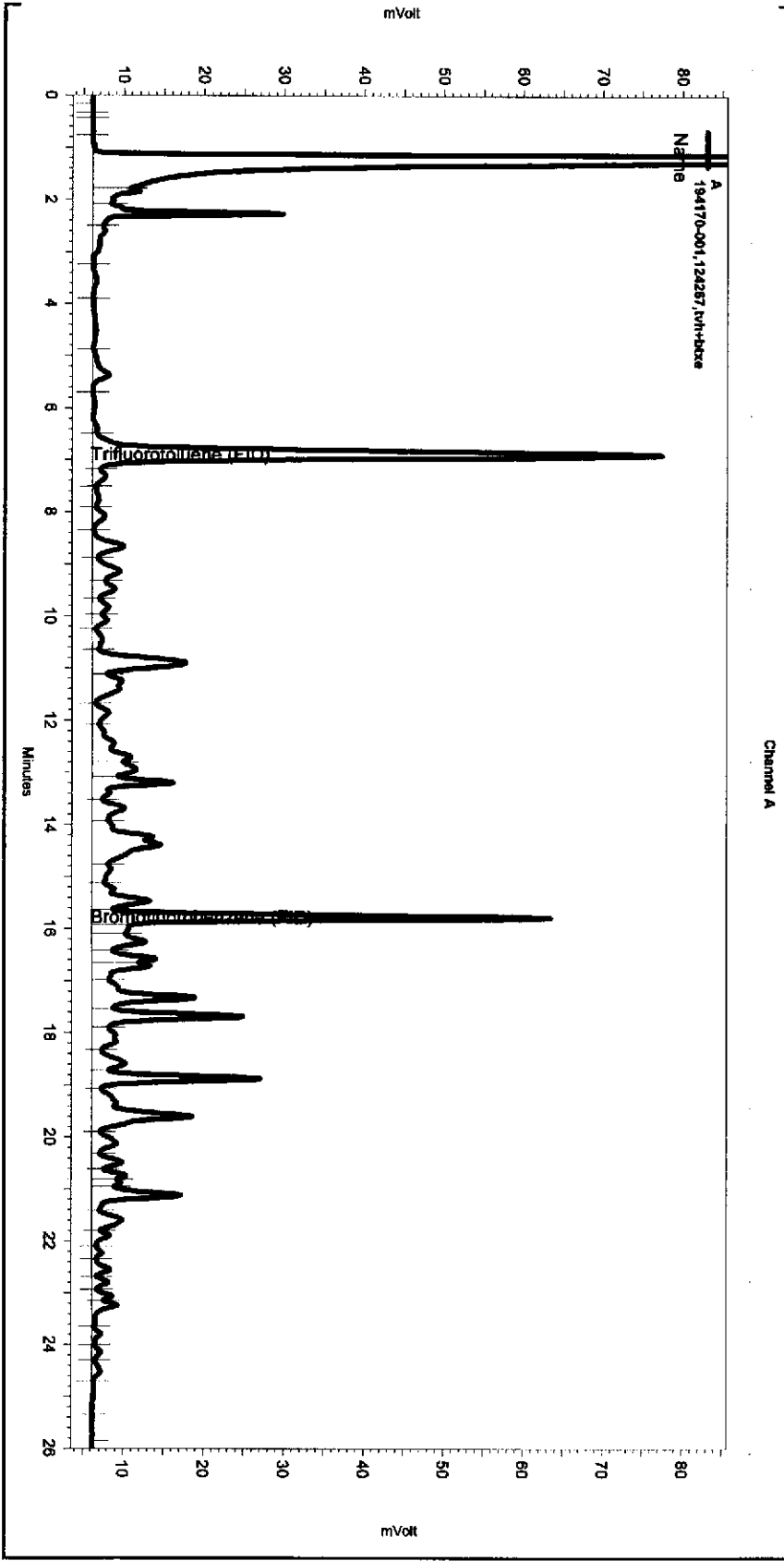
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	9.901	8.990	90	36-120	1	29

Surrogate	%REC	Limits
Trifluorotoluene (FID)	106	70-132
Bromofluorobenzene (FID)	123	66-138

RPD= Relative Percent Difference

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC19\Sequence1107.seq
 Sample Name: 194170-001,124267,tvh+btxe
 Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\1107_009
 Instrument: GC19 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC19\Method\TVHBTXE085.met

Software Version 3.1.7
 Run Date: 4/17/2007 5:40:20 PM
 Analysis Date: 4/18/2007 8:45:43 AM
 Sample Amount: 0.98 Multiplier: 0.98
 Vial & pH or Core ID: A



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

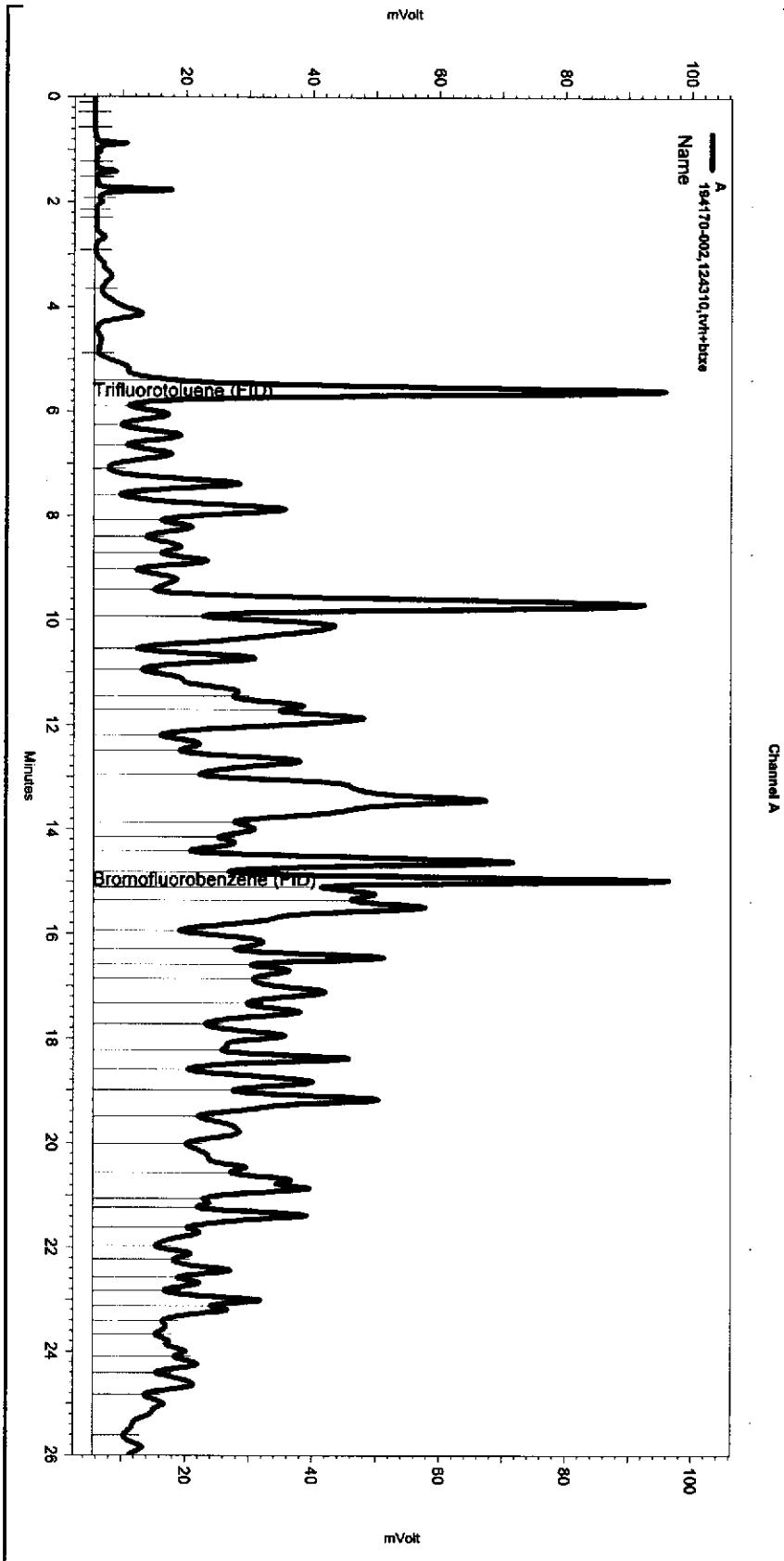
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\1107_009

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	6.481	0	0
Yes	Split Peak	15.932	0	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence108.seq
 Sample Name: 194170-002,124310,tvh+bbxs
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\108_006
 Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2, Analyst (lims2k3\tvh2)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\TVHBBXS106.met

Software Version 3.1.7
 Run Date: 4/18/2007 3:32:13 PM
 Analysis Date: 4/19/2007 8:38:14 AM
 Sample Amount: 0.99 Multiplier: 0.99
 Vial & pH or Core ID: A



< General Method Parameters >

No items selected for this section

< A >

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

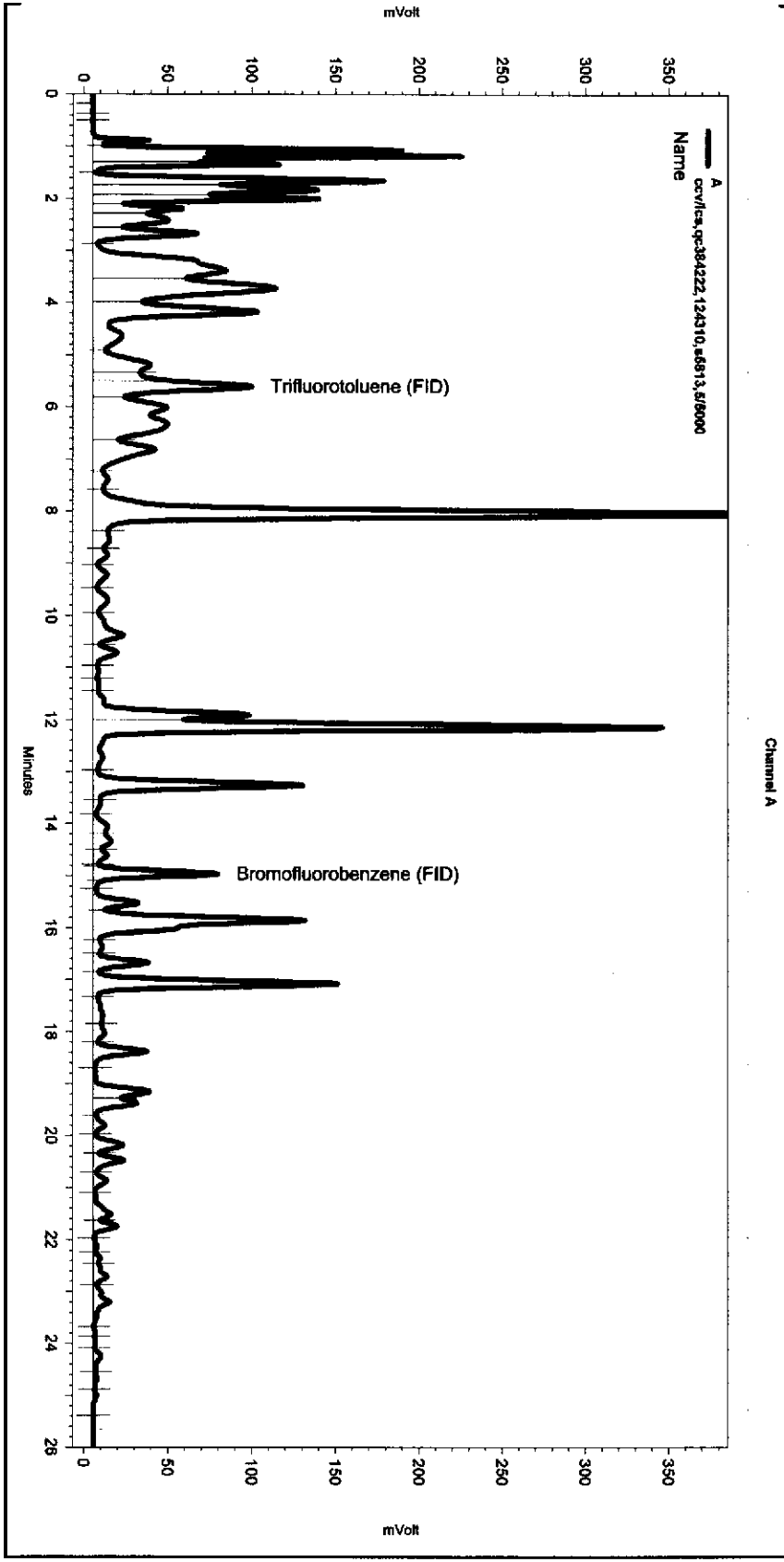
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\108_006

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseline	0	26.017	0
Yes	Split Peak	5.405	0	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\108.seq
 Sample Name: ccv/lcs,qc384222,124310,s5813,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\108_003
 Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe106.met

Software Version 3.1.7
 Run Date: 4/18/2007 1:15:02 PM
 Analysis Date: 4/19/2007 8:38:02 AM
 Sample Amount: 1 Multiplier: 1
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >

No items selected for this section

---< A >

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\108_003

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.498	0	0
Yes	Split Peak	14.823	0	0
Yes	Split Peak	15.095	0	0

Total Extractable Hydrocarbons

Lab #:	194170	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	SHAKER TABLE
Project#:	OL1081-00	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	124283
Units:	mg/Kg	Sampled:	04/16/07
Basis:	as received	Received:	04/16/07
Diln Fac:	1.000	Prepared:	04/18/07

Field ID:	#1	Lab ID:	194170-001
Type:	SAMPLE	Analyzed:	04/19/07

Analyte	Result	RL
Diesel C10-C24	13 H L Y	1.0

Surrogate	%REC	Limits
Hexacosane	100	40-127

Field ID:	#2	Lab ID:	194170-002
Type:	SAMPLE	Analyzed:	04/18/07

Analyte	Result	RL
Diesel C10-C24	39 L Y	1.0

Surrogate	%REC	Limits
Hexacosane	125	40-127

Type:	BLANK	Analyzed:	04/18/07
Lab ID:	QC384103		

Analyte	Result	RL
Diesel C10-C24	ND	1.0

Surrogate	%REC	Limits
Hexacosane	153 *	40-127

*= Value outside of QC limits; see narrative
H= Heavier hydrocarbons contributed to the quantitation
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
D= Not Detected
RL= Reporting Limit

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	194170	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	SHAKER TABLE
Project#:	OL1081-00	Analysis:	EPA 8015B
Type:	LCS	DiIn Fac:	1.000
Lab ID:	QC384104	Batch#:	124283
Matrix:	Soil	Prepared:	04/18/07
Units:	mg/Kg	Analyzed:	04/18/07
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.96	52.46	105	58-127

Surrogate	%REC	Limits
Hexacosane	119	40-127

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	194170	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	SHAKER TABLE
Project#:	OL1081-00	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	124283
MSS Lab ID:	194119-017	Sampled:	04/12/07
Matrix:	Soil	Received:	04/12/07
Units:	mg/Kg	Prepared:	04/18/07
Basis:	as received	Analyzed:	04/18/07
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3630C
Lab ID: QC384105

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	15.72	49.92	56.39	81	29-147

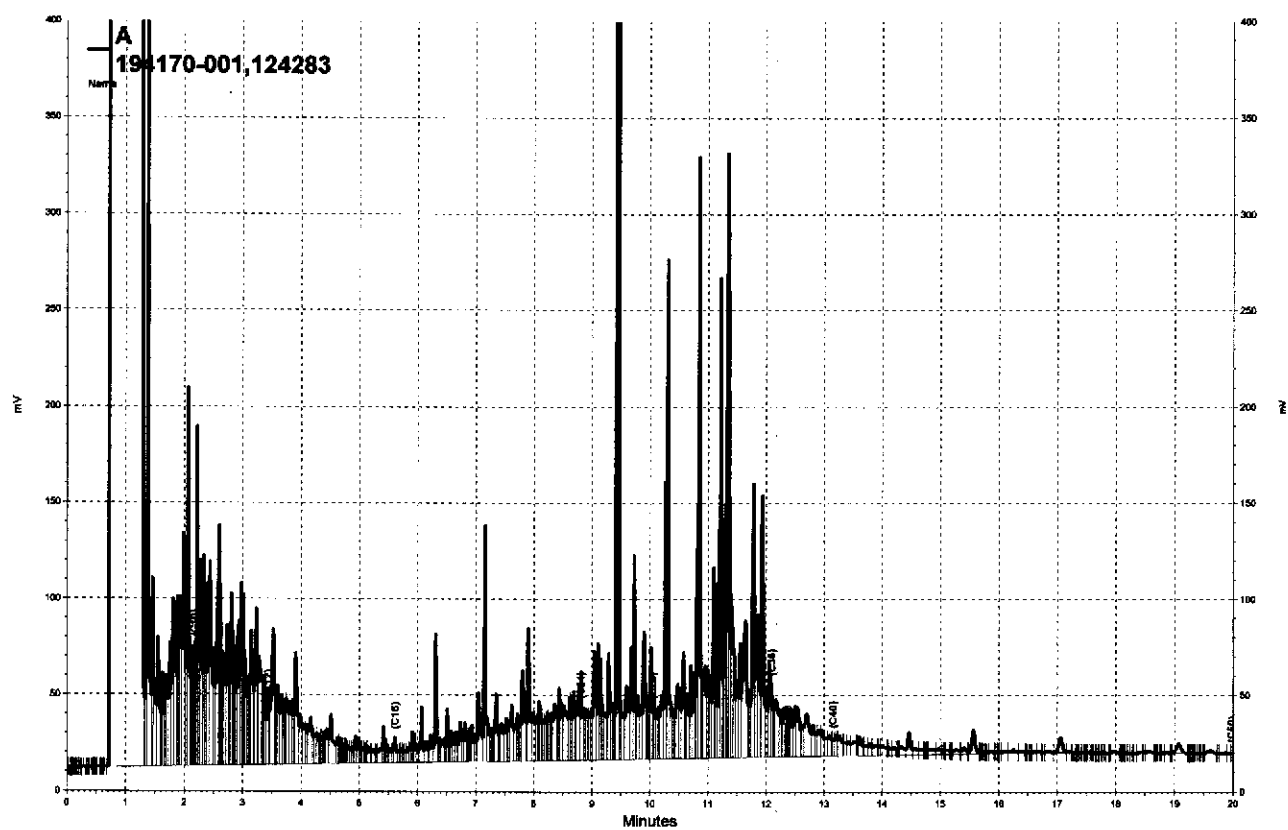
Surrogate	%REC	Limits
Hexacosane	104	40-127

Type: MSD Cleanup Method: EPA 3630C
Lab ID: QC384106

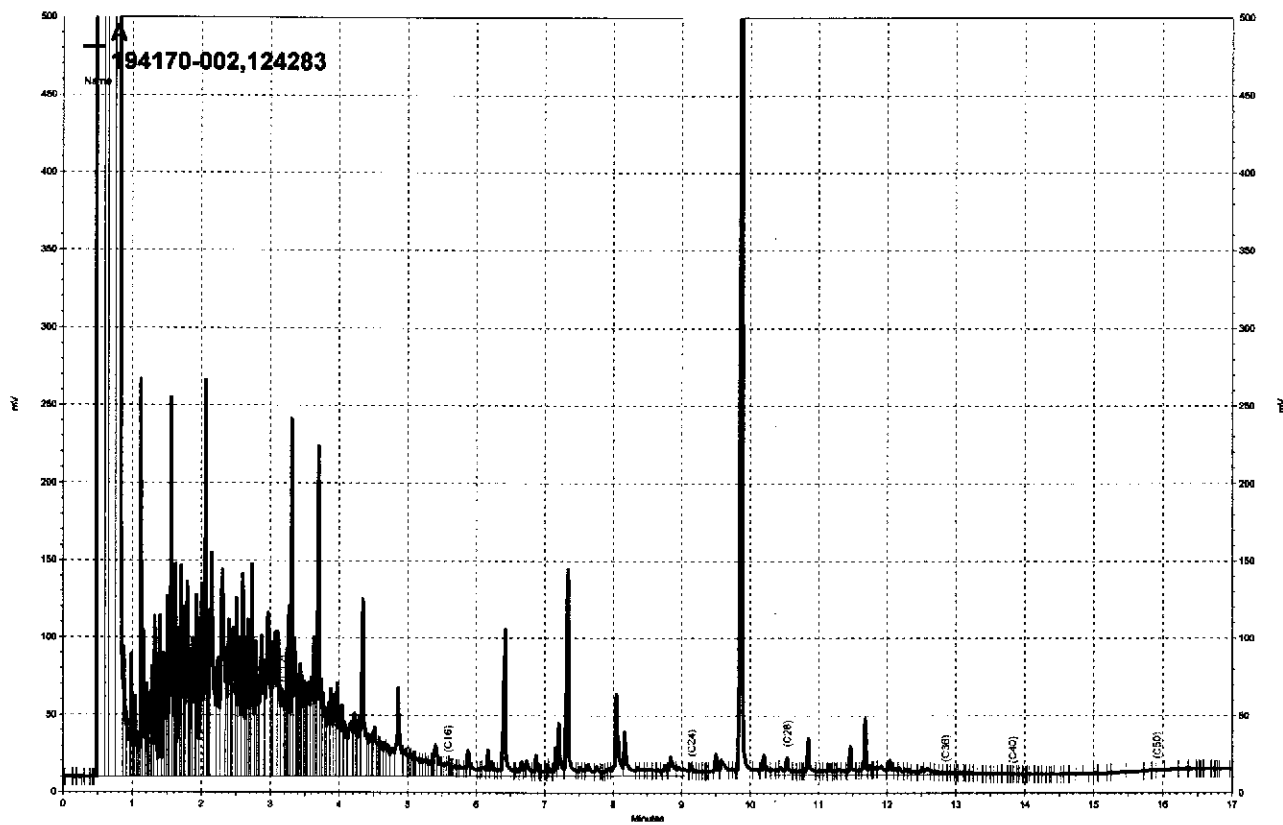
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	49.82	50.98	71	29-147	10	46

Surrogate	%REC	Limits
Hexacosane	94	40-127

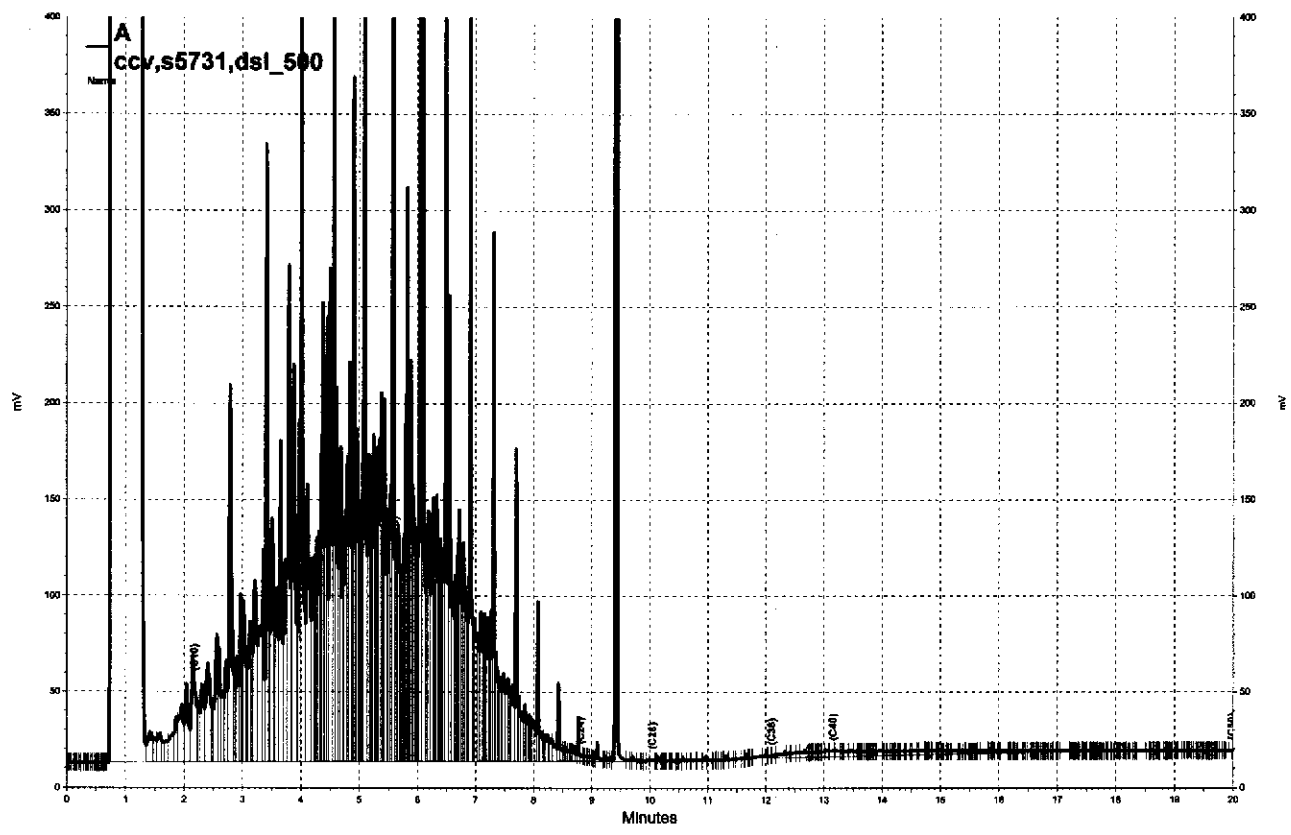
RPD= Relative Percent Difference



— \\Lims\gdrive\ezchrom\Projects\GC17A\Data\109a006, A



\\Lims\gdrive\ezchrom\Projects\GC26\Data\108a023, A



— \\Lims\gdrive\ezchrom\Projects\GC17A\Data\109a003, A

Purgeable Organics by GC/MS

Lab #:	194170	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	EPA 5030B
Project#:	OL1081-00	Analysis:	EPA 8260B
Field ID:	#1	Diln Fac:	0.9434
Lab ID:	194170-001	Batch#:	124239
Matrix:	Soil	Sampled:	04/16/07
Units:	ug/Kg	Received:	04/16/07
Basis:	as received	Analyzed:	04/17/07

Analyte	Result	RL
Freon 12	ND	9.4
Chloromethane	ND	9.4
Vinyl Chloride	ND	9.4
Bromomethane	ND	9.4
Chloroethane	ND	9.4
Trichlorofluoromethane	ND	4.7
Acetone	54	24
Freon 113	ND	4.7
1,1-Dichloroethene	ND	4.7
Methylene Chloride	ND	19
Carbon Disulfide	ND	4.7
MTBE	ND	4.7
trans-1,2-Dichloroethene	ND	4.7
Vinyl Acetate	ND	47
1,1-Dichloroethane	ND	4.7
2-Butanone	16	9.4
cis-1,2-Dichloroethene	ND	4.7
2,2-Dichloropropane	ND	4.7
Chloroform	ND	4.7
Bromochloromethane	ND	4.7
1,1,1-Trichloroethane	ND	4.7
1,1-Dichloropropene	ND	4.7
Carbon Tetrachloride	ND	4.7
1,2-Dichloroethane	ND	4.7
Benzene	5.2	4.7
Trichloroethene	ND	4.7
1,2-Dichloropropane	ND	4.7
Bromodichloromethane	ND	4.7
Dibromomethane	ND	4.7
4-Methyl-2-Pentanone	ND	9.4
cis-1,3-Dichloropropene	ND	4.7
Toluene	ND	4.7
trans-1,3-Dichloropropene	ND	4.7
1,1,2-Trichloroethane	ND	4.7
2-Hexanone	ND	9.4
1,3-Dichloropropane	ND	4.7
Tetrachloroethene	ND	4.7

ND = Not Detected
 RL = Reporting Limit

Purgeable Organics by GC/MS

Lab #:	194170	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	EPA 5030B
Project#:	OL1081-00	Analysis:	EPA 8260B
Field ID:	#1	Diln Fac:	0.9434
Lab ID:	194170-001	Batch#:	124239
Matrix:	Soil	Sampled:	04/16/07
Units:	ug/Kg	Received:	04/16/07
Basis:	as received	Analyzed:	04/17/07

Analyte	Result	RL
Dibromochloromethane	ND	4.7
1,2-Dibromoethane	ND	4.7
Chlorobenzene	ND	4.7
1,1,1,2-Tetrachloroethane	ND	4.7
Ethylbenzene	ND	4.7
m,p-Xylenes	15	4.7
o-Xylene	6.2	4.7
Styrene	ND	4.7
Bromoform	ND	4.7
Isopropylbenzene	ND	4.7
1,1,2,2-Tetrachloroethane	ND	4.7
1,2,3-Trichloropropane	ND	4.7
Propylbenzene	ND	4.7
Bromobenzene	ND	4.7
1,3,5-Trimethylbenzene	8.1	4.7
2-Chlorotoluene	ND	4.7
4-Chlorotoluene	ND	4.7
tert-Butylbenzene	ND	4.7
1,2,4-Trimethylbenzene	22	4.7
sec-Butylbenzene	ND	4.7
para-Isopropyl Toluene	ND	4.7
1,3-Dichlorobenzene	ND	4.7
1,4-Dichlorobenzene	ND	4.7
n-Butylbenzene	ND	4.7
1,2-Dichlorobenzene	ND	4.7
1,2-Dibromo-3-Chloropropane	ND	4.7
1,2,4-Trichlorobenzene	ND	4.7
Hexachlorobutadiene	ND	4.7
Naphthalene	ND	4.7
1,2,3-Trichlorobenzene	ND	4.7

Surrogate	%REC	Limits
Dibromofluoromethane	107	78-126
1,2-Dichloroethane-d4	105	76-135
Toluene-d8	102	80-120
Bromofluorobenzene	105	80-126

ND = Not Detected
 RL = Reporting Limit

Purgeable Organics by GC/MS

Lab #:	194170	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	EPA 5030B
Project#:	OL1081-00	Analysis:	EPA 8260B
Field ID:	#2	Diln Fac:	0.9434
Lab ID:	194170-002	Batch#:	124239
Matrix:	Soil	Sampled:	04/16/07
Units:	ug/Kg	Received:	04/16/07
Basis:	as received	Analyzed:	04/17/07

Analyte	Result	RL
Freon 12	ND	9.4
Chloromethane	ND	9.4
Vinyl Chloride	ND	9.4
Bromomethane	ND	9.4
Chloroethane	ND	9.4
Trichlorofluoromethane	ND	4.7
Acetone	27	24
Freon 113	ND	4.7
1,1-Dichloroethene	ND	4.7
Methylene Chloride	ND	19
Carbon Disulfide	ND	4.7
MTBE	ND	4.7
trans-1,2-Dichloroethene	ND	4.7
Vinyl Acetate	ND	47
1,1-Dichloroethane	ND	4.7
2-Butanone	ND	9.4
cis-1,2-Dichloroethene	ND	4.7
2,2-Dichloropropane	ND	4.7
Chloroform	ND	4.7
Bromochloromethane	ND	4.7
1,1,1-Trichloroethane	ND	4.7
1,1-Dichloropropene	ND	4.7
Carbon Tetrachloride	ND	4.7
1,2-Dichloroethane	ND	4.7
Benzene	ND	4.7
Trichloroethene	ND	4.7
1,2-Dichloropropane	ND	4.7
Bromodichloromethane	ND	4.7
Dibromomethane	ND	4.7
4-Methyl-2-Pentanone	ND	9.4
cis-1,3-Dichloropropene	ND	4.7
Toluene	ND	4.7
trans-1,3-Dichloropropene	ND	4.7
1,1,2-Trichloroethane	ND	4.7
2-Hexanone	ND	9.4
1,3-Dichloropropane	ND	4.7
Tetrachloroethene	ND	4.7

ND = Not Detected
 RL = Reporting Limit

Purgeable Organics by GC/MS

Lab #:	194170	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	EPA 5030B
Project#:	OL1081-00	Analysis:	EPA 8260B
Field ID:	#2	Diln Fac:	0.9434
Lab ID:	194170-002	Batch#:	124239
Matrix:	Soil	Sampled:	04/16/07
Units:	ug/Kg	Received:	04/16/07
Basis:	as received	Analyzed:	04/17/07

Analyte	Result	RL
Dibromochloromethane	ND	4.7
1,2-Dibromoethane	ND	4.7
Chlorobenzene	ND	4.7
1,1,1,2-Tetrachloroethane	ND	4.7
Ethylbenzene	ND	4.7
m,p-Xylenes	ND	4.7
o-Xylene	ND	4.7
Styrene	ND	4.7
Bromoform	ND	4.7
Isopropylbenzene	7.4	4.7
1,1,2,2-Tetrachloroethane	ND	4.7
1,2,3-Trichloropropane	ND	4.7
Propylbenzene	9.2	4.7
Bromobenzene	ND	4.7
1,3,5-Trimethylbenzene	5.6	4.7
2-Chlorotoluene	ND	4.7
4-Chlorotoluene	ND	4.7
tert-Butylbenzene	ND	4.7
1,2,4-Trimethylbenzene	7.5	4.7
sec-Butylbenzene	7.8	4.7
para-Isopropyl Toluene	6.0	4.7
1,3-Dichlorobenzene	ND	4.7
1,4-Dichlorobenzene	ND	4.7
n-Butylbenzene	5.1	4.7
1,2-Dichlorobenzene	ND	4.7
1,2-Dibromo-3-Chloropropane	ND	4.7
1,2,4-Trichlorobenzene	ND	4.7
Hexachlorobutadiene	ND	4.7
Naphthalene	14	4.7
1,2,3-Trichlorobenzene	ND	4.7

Surrogate	%REC	Limits
Dibromofluoromethane	108	78-126
1,2-Dichloroethane-d4	98	76-135
Toluene-d8	98	80-120
Bromofluorobenzene	119	80-126

ND = Not Detected
 RL = Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	194170	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	EPA 5030B
Project#:	OL1081-00	Analysis:	EPA 8260B
Type:	LCS	Basis:	as received
Lab ID:	QC383939	Diln Fac:	1.000
Matrix:	Soil	Batch#:	124239
Units:	ug/Kg	Analyzed:	04/17/07

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	26.27	105	76-132
Benzene	25.00	26.28	105	80-120
Trichloroethene	25.00	26.94	108	80-120
Toluene	25.00	26.92	108	80-120
Chlorobenzene	25.00	26.96	108	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	100	78-126
1,2-Dichloroethane-d4	95	76-135
Toluene-d8	99	80-120
Bromofluorobenzene	100	80-126

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	194170	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	EPA 5030B
Project#:	OL1081-00	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC383940	Diln Fac:	1.000
Matrix:	Soil	Batch#:	124239
Units:	ug/Kg	Analyzed:	04/17/07

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	25
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND = Not Detected
 RL = Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	194170	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	EPA 5030B
Project#:	OL1081-00	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC383940	Diln Fac:	1.000
Matrix:	Soil	Batch#:	124239
Units:	ug/Kg	Analyzed:	04/17/07

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	105	78-126
1,2-Dichloroethane-d4	99	76-135
Toluene-d8	96	80-120
Bromofluorobenzene	102	80-126

ND = Not Detected
 RL = Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	194170	Location:	CNG Fueling Station
Client:	Geolabs, Inc.	Prep:	EPA 5030B
Project#:	OL1081-00	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Diln Fac:	0.9091
MSS Lab ID:	194169-005	Batch#:	124239
Matrix:	Soil	Sampled:	04/16/07
Units:	ug/Kg	Received:	04/16/07
Basis:	as received	Analyzed:	04/17/07

Type: MS Lab ID: QC383978

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.5202	45.45	50.24	111	72-138
Benzene	<0.1253	45.45	41.68	92	61-122
Trichloroethene	<0.2974	45.45	44.21	97	62-134
Toluene	<0.5024	45.45	42.81	94	57-124
Chlorobenzene	<0.4701	45.45	42.09	93	55-120

Surrogate	%REC	Limits
Dibromofluoromethane	92	78-126
1,2-Dichloroethane-d4	77	76-135
Toluene-d8	93	80-120
Bromofluorobenzene	98	80-126

Type: MSD Lab ID: QC383979

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	45.45	51.06	112	72-138	2	20
Benzene	45.45	42.56	94	61-122	2	20
Trichloroethene	45.45	44.51	98	62-134	1	20
Toluene	45.45	43.13	95	57-124	1	21
Chlorobenzene	45.45	41.79	92	55-120	1	22

Surrogate	%REC	Limits
Dibromofluoromethane	96	78-126
1,2-Dichloroethane-d4	80	76-135
Toluene-d8	96	80-120
Bromofluorobenzene	97	80-126

RPD= Relative Percent Difference

**HEALTH AND SAFETY PLAN
for
REMOVAL ACTION**

**At
Downtown Oakland CNG Station
205/209 Brush Street
Oakland, CA 94607**

Prepared for

**Environmental Programs & Safety Department
Port of Oakland
530 Water Street
Oakland, CA 94607**

**Under Contract/Resolution No. 5135
ON-CALL ENVIRONMENTAL COMPLIANCE CONSULTING SERVICES**

Prepared by

**R&M Environmental and Infrastructure Engineering, Inc.
7996 Capwell Drive
Oakland, CA 94621**

April 23, 2007

SIGNATURE SHEET

**REMOVAL ACTION
AT
209 BRUSH STREET
OAKLAND, CALIFORNIA**

R&M Environmental and Infrastructure Engineering, Inc. Approvals

Rafael Carranza
R&M Site Health and Safety Officer

Date

Masood Ghassemi, Ph.D., P.E.
R&M Project Manager

Date

ACKNOWLEDGEMENT AND COMPLIANCE COMMITMENT

I have read and understood this Health and Safety Plan for field activities at 205/209 Brush Street, Oakland, California.

I will comply with the requirements stipulated in this document.

I agree to notify the responsible employee of R&M Environmental and Infrastructure Engineering, Inc. (R&M) should any unsafe act be witnessed by me while I am on this site.

Name (Print)	Organization	Signature	Date

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ABBREVIATIONS AND ACRONYMS

CFR	Code of federal regulations
EM	Engineering Manual
HSP	Health and safety plan
IDW	Investigation-derived waste
NIOSH	National Institute of Occupational Safety and Health
NMCR	Navy and Marine Corps Reserve Center
OSHA	Occupational Safety and Health Administration
OVA	Organic vapor analyzer
PCB	Polychlorinated biphenyl
PPE	Personal protective equipment
R&M	R&M Environmental and Infrastructure Engineering, Inc.
SHSO	Site health and safety officer
TPH	Total petroleum hydrocarbons
UST	Underground storage tank

1.0 INTRODUCTION

This health and safety plan (HSP) covers work to be performed by R&M Environmental and Infrastructure Engineering, Inc. (R&M) under contract/resolution no. 5135, On-call Environmental Compliance Consulting Services with the Port of Oakland. The work involves oversight and documentation of field activities associated with a removal action involving excavation of potentially contaminated soil, assessment and confirmation soil sampling, placement and compaction of backfill material, and management of materials and wastes resulting from site activities.

All field activities must be performed in compliance with the requirements stipulated in R&M's Corporate Health and Safety Program (included as attachment to this plan), and any additional requirements identified and presented in this job-specific HSP.

2.0 BACKGROUND

While excavating an area of approximately 22 ft by 66 ft to construct a pad and two shallow conduit trenches for a compressed natural gas (CNG) fueling station at 205/209 Brush Street¹ in Oakland, California, it was noted that a segment of each trench contained soil that was darker in color and had a solvent-like odor and that the color and odor faded on exposure to air. Upon this observation, excavation activities were halted pending investigation of the cause of the soil coloration and odor. Analytical results for two samples of soil taken from depths of 2.0 ft and 2.5 ft below the ground surface have indicated the presence of certain volatile organic compounds, particularly acetone, which was detected at a concentration of 27 µg/kg and 54 µg/kg in the two samples (See Table 1). Based on field observations and soil sample analytical results, a removal action is planned whereby the impacted soil within the footprint of the equipment pad will be excavated to a maximum depth of close to the water table, if deemed necessary based on field observations and screening. The excavation will then be backfilled and compacted and the facility construction re-started. The excavated soil will be profiled and hauled offsite for proper disposal. Representing the Port, R&M Environmental and Infrastructure Engineering, Inc. (R&M) will support the project providing removal action oversight and documentation of field activities and a health and safety program (including on-site air monitoring) that should be protective of the environment and of the health and safety of site workers and the residents and tenants in the general area.

This health and safety plan (HSP) covers the following field activities:

- ⌘ Preliminary and preparatory work including subsurface utility clearance, agency notifications, and work area delineation
- ⌘ Excavation and stockpiling of excavated materials
- ⌘ Confirmation sampling and sample analysis
- ⌘ Backfilling and compaction
- ⌘ Management of excavated materials
- ⌘ Environmental protection
- ⌘ Site restoration

¹ In some documents, the street address for this site is given as 205/209 Brush Street.

Health and safety monitoring

Table 1: Summary of Soil Sample Analytical Results

209 Brush Street, Oakland, CA

Soil Sampling Analytical Results; Sampling performed April 16, 2007

Soil Sample	#1	#2	Units
TPH			
Gasoline (C7-C12)	1,900 (H)	100 (H)(Y)	µg/kg
Diesel (C10-C24)	0 (H)(L)(Y)	39 (L)(Y)	µg/kg
BTEX			
Benzene	ND<5.1	ND<5.1	µg/kg
Toluene	ND<5.1	ND<5.1	µg/kg
Ethylbenzene	7.4	ND<5.1	µg/kg
m,p - Xylenes	23	ND<5.1	µg/kg
o - Xylenes	14	36 (C)	µg/kg
PURGEABLE ORGANICS*			
Acetone	54	27	µg/kg
2-Butanone	16	ND<9.4	µg/kg
Isopropylbenzene	ND<4.7	7.4	µg/kg
Propylbenzene	ND<4.7	9.2	µg/kg
1,3,5-Trimethylbenzene	8.1	5.6	µg/kg
1,2,4-Trimethylbenzene	22	7.5	µg/kg
sec-Butylbenzene	ND<4.7	7.8	µg/kg
para-Isopropyl Toluene	ND<4.7	6	µg/kg
n-Butylbenzene	ND<4.7	5.1	µg/kg
Naphthalene	ND<4.7	14	µg/kg

* Only analytes that were detected above the detection limits in one or both soil samples are listed here. See the laboratory reports provided in the Appendix

TPH-g = Total petroleum hydrocarbons as gasoline

TPH-d = Total petroleum hydrocarbon as diesel

BTEX = Benzene, toluene, ethylbenzene, and xylenes

ND = Not detected

H = Heavier hydrocarbons contributed to the quantitation

L = Lighter hydrocarbons contributed to the quantitation

Y = Sample exhibits chromatographic pattern which does not resemble standard

C = Presence confirmed, but RPD between columns exceeds 40%

TABLE 1
ANALYTICAL RESULTS FOR SOIL SAMPLES COLLECTED ON 4/16/07

Soil Sample	#1 mg/Kg	#2 mg/Kg	ESL	STLC mg/L	PTLC mg/Kg
TITLE 22 METALS					
Antimony	ND<0.5	ND<0.5	40	15	500
Arsenic	1.5	1.6	5.5	5	500
Barium	73	55	1,500	100	10,000
Beryllium	0.17	0.17	8	0.75	75
Cadmium	ND<0.25	ND<0.25	7.4	1	100
Chromium	28	30.00	58	5	500*, 2500**
Cobalt	3.8	4.2	10	80	8,000
Copper	8.3	6.1	230	25	2,500
Lead	19	1.7	750	5	1,000
Mercury	0.13	0.038	10	0.2	20
Molybdenum	ND<0.25	ND<0.25	40	350	3,500
Nickel	16	17	150	20	2,000
Selenium	ND<0.5	ND<0.5	10	1	100
Silver	ND<0.25	ND<0.25	40	5	500
Thallium	ND<0.5	ND<0.5	13	7	700
Vanadium	20	21	200	24	2,400
Zinc	21	14	600	250	5,000

1) Samples collected by Geolabs on 4/16/2007 (see Figure 4 for sample location)

2) Sample No. 1 depth - 2.0 feet bgs; Sample No. 2 depth = 2.5 feet bgs

3) Samples analyzed by Curtis and Tompkins, Ltd. (See Appendix B for laboratory report)

ND = Not detected

* for Chromium (VI)

** for Chromium (III)

* = ESLs from Table B, 'ESLs Shallow Soils ($\leq 3m$ bgs) Groundwater IS NOT a Current of Potential Source of Drinking Water' in "Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater," report prepared by California R

3.0 HEALTH AND SAFETY REQUIREMENTS AND RESPONSIBILITIES

This section outlines the minimum requirements of this HSP and the responsibilities of the site health and safety officer (SHSO).

3.1 REGULATORY REQUIREMENTS

Work performed under this contract will comply with U. S. Army Corps of Engineers Safety Manual EM 385-1-1 (2003) and applicable Federal, State of California, and local safety and occupational health laws and regulations. Applicable regulations include, but are not limited to

Occupational Safety and Health Administration (OSHA) Standards 29 CFR, Part 1910, specifically Section 120, "Hazardous Waste Site Operations and Emergency Response" and CCR 5192 "Hazwoper" Section 6. Where the requirements of this specification, applicable laws, criteria, ordinances, regulations and referenced documents vary, the most stringent will apply.

2.2 GENERAL REQUIREMENTS

R&M is committed to performing all field activities in a safe and environmentally sound manner. We commit to comply with the guidelines provided in the following documents:

- Engineer Manual (EM) 385-1-1, US Army Corps of Engineers, "Safety and Health Requirements Manual" 3 November 2003
- Code of Federal Regulations (CFR) 29.1910.120
- State OSHA Regulations (CCR 5192 Section 6)

This HSP presents baseline health and safety requirements for establishing and maintaining a safe working environment during the course of the specific work described herein. If the work requirements or site conditions change from those that are presented in this HSP, the Site Health and Safety Officer (SHSO) shall be informed immediately and appropriate changes shall be made to this HSP.

A copy of this HSP shall be kept on site, easily accessible to all site workers and authorized inspectors. Another copy of this HSP shall be placed in the R&M's files for the project.

R&M and all subcontractors' field personnel who are on site during field activities will be required to remain in full compliance with the applicable requirements of this project-specific HSP. It is expected that subcontractors' personnel and other contractors that work directly for the Port will also observe strict compliance with their own corporate health and safety plans. At a minimum, all field personnel working onsite must:

- Have read and understood this HSP.
- Have completed all training requirements specified in the Code of Federal Regulations (CFR) 29 1910.120.

3.3 SITE HEALTH AND SAFETY OFFICER AND HIS RESPONSIBILITIES

Mr. Rafael Carranza will act as the R&M site health and safety officer (SHSO). Mr. Carranza meets the requirements of Occupational Safety and Health Administration (OSHA) Hazardous Waste Operations and Emergency Response Standard 29 CFR 1910.120. He has completed 40-hour OSHA Hazardous Material Training.

The following are the health and safety project responsibilities of Mr. Carranza:

- Ensure that all personnel engaged in the removal action are fully qualified with the appropriate training and updates.
- Ensure that all personnel engaging in fieldwork at the site comply fully with this HSP.
- Keep R&M's Project Manager informed on project developments, including: (1) injuries, exposures, or illnesses and (2) proposed changes in work scope and procedures requiring adjustment to the health and safety plan.
- Ensure that resources are available to provide a safe and healthy environment for site workers.
- Conduct daily safety tailgate meetings to ensure that onsite personnel receive proper training and are informed of potential hazards anticipated at the site, precautions to be taken, and procedures to be implemented on the job.
- Assess the potential health and safety hazards at the site and their potential impacts on site personnel.
- Implement appropriate safeguards and procedures.
- Modify this HSP, as necessary.
- Approve changes in safeguards used or operating procedures employed by R&M and subcontractors' personnel working at the site.

The SHSO or his designated person will be present on site during all filed operation.

4.0 POTENTIAL HAZARDS AND CONTROL REQUIREMENTS

Potential chemical, physical, and general safety hazards anticipated during the activities at the site are listed in the Job Hazard Analysis (JHA) presented in Tables 1 and 2. The hazards and the protection measures that will be used to guard against them are discussed in the following sections.

4.1 CHEMICAL HAZARDS AND CONTROLS

Contaminants of concern are listed in Table 1 and 2. Among these are petroleum products, such as gasoline- and diesel-range hydrocarbons, benzene, toluene, ethylbenzene, and xylenes (BTEX); and certain volatile organic compounds, such as acetone and trimethylbenzenes which may be found at low concentrations in the soil and groundwater and metals. Potential physical contact with chemicals of concern that may require implementation of certain site control measures and use of appropriate personal protective equipment (PPE) is possible during field activities including sampling. It is anticipated that the work will generally require Level D PPE. At the 209 Brush Street project site, the minimum requirements for PPE for all field personnel engaged in any type of field activity include the following:

- ✦ Hard hat
- ✦ Safety glasses
- ✦ Steel toed/steel-shank boots
- ✦ Bright orange or yellow safety vest
- ✦ Hearing protection

In addition, all personnel will wear disposable gloves when collecting and handling samples. Higher levels of protection, which may include use of chemical-resistance clothing and half-mask respirators, may become necessary, depending on ambient and breathing zone air monitoring data, and additional knowledge of contaminant levels. Personnel will leave the area if serious hazards exceeding the effective limits of protection afforded by Level C PPE are detected by the organic vapor monitor or if personnel show signs or symptoms of exposure.

No eating, smoking, or drinking will be permitted in the work area.

4.2 PHYSICAL HAZARDS AND CONTROLS

Physical hazards associated with field activities planned during this task will be primarily of the following nature:

- The general hazards from being or working in areas where heavy construction equipment are operating.
- Slip, trip, and fall hazards

- Heat stress (during hot days)

The SHSO will take special care to emphasize these hazards in daily tailgate meetings, and field personnel will be briefed on any changes in site conditions. While in the field, the work areas shall be maintained in a neat and orderly state to minimize the possibility of slips, trips, and falls. Materials shall not be stored on the ground in areas where there is foot traffic. Tools and materials shall not be left lying haphazardly on the ground.

When working near equipment, field personnel will remain alert of activities around them and keep a safe distance from the equipment. Additionally, they will abide by any specific safety guidelines issued by site supervisor and equipment operator.

5.0 WORK ZONES AND DECONTAMINATION PROCEDURES

A site must be controlled to reduce the possibility of exposure to site contaminants and to limit transport of contaminants away from the site by personnel or equipment.

5.1 CONTROLS

A control system is required to ensure that personnel and equipment working on hazardous waste sites are subjected to appropriate health and safety surveillance and site access control.

The possibility of exposure or translocation of contaminants can be reduced or eliminated in a number of ways, including:

- Setting security or physical barriers at control points to regulate access to and/or exclude unnecessary personnel from the general area. The exclusion area will be cordoned off with caution tape and barricades. Personnel uninvolved with construction activities will remain outside of the cordoned-off area.
- Minimizing the number of personnel and equipment on site consistent with effective operations.
- Establishing work zones within the site.
- Conducting operations in a manner which will reduce the exposure of personnel and equipment.
- Minimizing the airborne dispersion of contaminants (utilizing dust control procedures).
- Implementing appropriate decontamination procedures for both equipment and personnel.

5.2 SITE CONTROL MEASURES

Where a potential for worker exposure to hazardous substances or unsafe conditions exists, the work zone(s) will be established and the flow of personnel and equipment will be controlled. The establishment of the work zone will ensure that personnel are properly protected against hazards present in the work area, work activities and contamination are confined to the appropriate areas, and personnel can be located and evacuated in an emergency.

Prior to the commencement of field activities, work zones will be established by the SHSO as necessary to meet operational and safety objectives. The work zones will be identified with signs indicating that all visitors are required to stop and inform site personnel of their presence on site. Entrance(s) to the work zone will be conspicuously marked with signs as needed stating the following:

CONSTRUCTION AREA
AUTHORIZED PERSONNEL ONLY
NO SMOKING BEYOND THIS POINT
HARD HAT AREA

5.3 PERSONNEL AND EQUIPMENT DECONTAMINATION PROCEDURES

Decontamination is the process of removing (or neutralizing) contaminants from personnel or equipment. When done properly, decontamination procedures protect the worker from contaminants that may have accumulated on PPE, tools, and other equipment. Proper decontamination also prevents transport of potentially harmful materials to unaffected areas. General guidelines on decontamination can be found in the Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities (NIOSH et. al., 1985).

The following personnel and equipment decontamination procedures will be followed.

5.3.1 Personnel Decontamination

Decontamination (decon) station will be established in the contamination reduction zone. Brushes and water will be available in the decontamination zone to dislodge soil and mud from shoes and clothing so that they will not be dragged out to the outside areas. All contaminated or potentially contaminated disposable clothing will be placed into labeled 6-mil plastic bags and

left on site for disposal as IDW. Water, towels, and soap will be available on site. Personnel will shower completely at home at the end of each day.

If necessary, personnel and PPE will be decontaminated with potable water and a mixture of detergent and water. Liquid and solid waste produced during decontamination will be collected, drummed, and disposed of as IDW. When decontamination is required, specific decontamination procedure will be as follows:

- Wash neoprene boots (or disposable booties) with an Alconox[®] solution, and rinse them with water. Remove and retain neoprene boots for reuse, if possible. Place disposable booties in plastic bags for disposal.
- Wash outer gloves in an Alconox[®] solution and rinse them with water. Remove outer gloves and place them in a plastic bag for disposal.
- Remove the Tyvek body suit, and place it in a plastic bag for disposal.
- Remove the air-purifying respirator (if used) and place the spent filter in a plastic bag for disposal. The filter may be changed daily or at longer intervals, depending on the use and application. Clean and disinfect the respirator with towelettes or a non-phosphate cleaning solution. Place it in a plastic bag for storage.
- Remove inner gloves and place them in a plastic bag for disposal.
- Thoroughly wash hands and face with water and soap.

5.3.2 Equipment Decontamination

Decontamination of all sampling, field monitoring, and other equipment used during site activities will be required. The equipment decontamination procedures will be consistent with guidelines for low-level contamination, which are anticipated for the planned activities. All equipment/tools used will be inspected prior to removal from the site. Dirt or mud adhered to the equipment will be dislodged using a brush or water from a hose. When appropriate, Alconox[®] cleaning solutions and a deionized water rinse will be used to decontaminate equipment. Wastewater from equipment decontamination will be collected in 55-gallon drums or similar suitable containers.

6.0 EMERGENCY PROCEDURES

The following sections describe general injury, specific treatments, emergency phone numbers, hospital route map and directions, and accident reporting procedures.

6.1 GENERAL INJURY

- Step 1: When applicable, use first-aid kit on site
- Step 2: When applicable, use off-site help and/or assistance
- Step 3: Notify the SHSO and R&M Project Manager

6.2 SPECIFIC TREATMENTS

- Eye Exposure: Flush eye with eyewash, call ambulance, if necessary
- Skin Exposure: Wash immediately with soap and water; call ambulance, if necessary
- Fire (localized): Use fire extinguisher and activate alarm system, if necessary
- Fire (uncontrolled): Call Fire Department whenever uncontrolled open flames occur at the site
- Chemical Spill: Call Fire Department and National Response Center for Toxic Chemical and Oil Spills, as appropriate
- Explosion: Call Fire Department if potential for additional explosions or fire danger exists
- Inhalation: Move affected person(s) to fresh air and cover source of vapors, if appropriate. Call the Fire Department.
- Ingestion: Call ambulance and poison control center.

6.3 EMERGENCY PHONE NUMBERS

- Fire Department (City of Oakland)
 - Emergency: 911
 - Non-Emergency: (510) 238-3856
- Ambulance: 911
- Police Department (City of Oakland)
 - Emergency: 911 (from land line only)
 - Emergency, from cellular phone: (510) 777-3211
 - Non-Emergency: (510) 777-3333

The following telephone numbers are in addition to 911:

- Hospital (Alta Bates Summit Medical Center)
 - Emergency Room (510) 869-6600
 - Information (510) 655-4000
- Regional Poison Control (800) 523-2222
- National Emergency Response Center (800) 424-8802
- California State Office of Emergency Services (800) 852-7550
- U.S. Coast Guard (510) 437-3700

6.4 KEY PROJECT MANAGEMENT PERSONNEL

R&M Project Manager	Masood Ghassemi: (510) 553-2146; cell phone: (510) 364-4429
R&M Site Superintendent:	Rafael Carranza (510) 553-2149; cell phone: (510) 364-4431
R&M Site Health and Safety Officer	Rafael Carranza (510) 553-2149; cell phone: (510) 364-4431
Port's Project Manager	John Prall (510) 627-1373

6.5 HOSPITAL ROUTE MAP AND DIRECTIONS

Figure 1 is a map to Alta Bates Summit Medical Center, which is located at 350 Hawthorne Avenue, Oakland, CA 94609. To reach the hospital:

From work site: Start out going northeast on Brush St. toward 3rd St.

Turn right onto 5th St.

Turn left onto Broadway.

Turn left onto 29th St.

Turn right onto Webster St.

End at 350 Hawthorne Ave.

The approximate distance from the work site to Alta Bates Medical Center is 2 miles.

6.6 ACCIDENT REPORTING PROCEDURE

All accidents, illnesses, and injuries should be reported immediately to the SHSO. Also, contact the following in the event of an emergency:

- Masood Ghassemi, R&M (510) 553-2146; Cell phone: (510) 364-4429

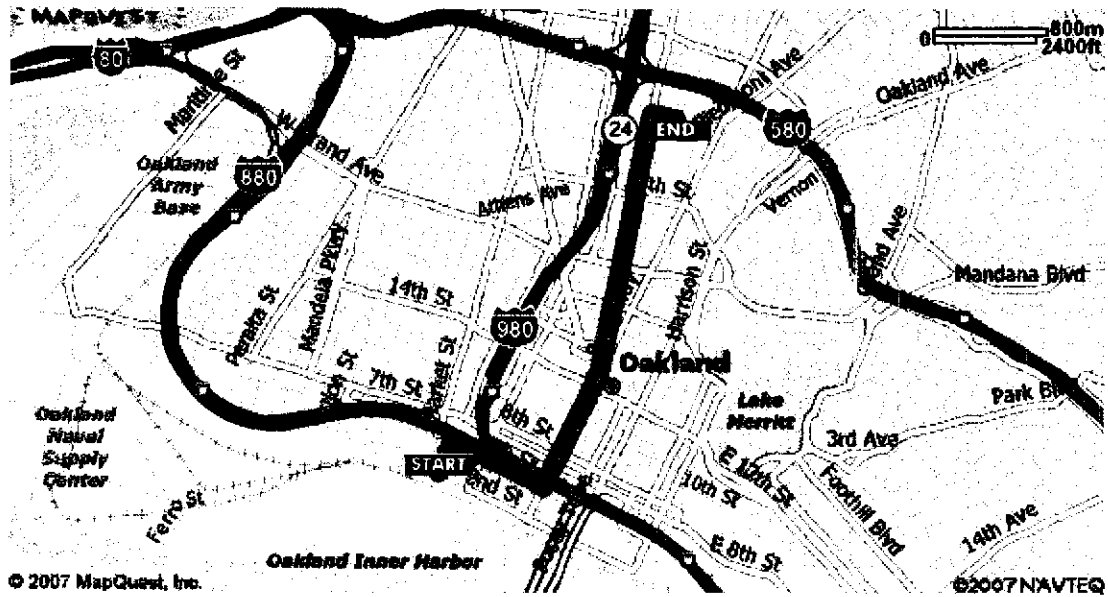
If an exposure or injury occurs, work may be temporary halted until the SHSO, in consultation with the Port's Project Manager, decides it is safe to continue work.

All injuries, accidents, and near misses will be reported to R&M Management within 24 hours of occurrence.

7.0 DOCUMENTATION

The SHSO will record field observations of health and safety procedures by workers conducting the planned activities, including deviations from the recommended health and safety procedures.

FIGURE 1 – HOSPITAL ROUTE MAP AND DIRECTIONS



Map Source: <http://www.yahoo.com>

- START**
- 1: Start out going **NORTHEAST** on **BRUSH ST** toward **3RD ST**. 0.1 miles
 - 2: Turn **RIGHT** onto **5TH ST**. 0.4 miles
 - 3: Turn **LEFT** onto **BROADWAY**. 1.4 miles
 - 4: Turn **LEFT** onto **29TH ST**. <0.1 miles
 - 5: Turn **RIGHT** onto **WEBSTER ST**. 0.2 miles
- END**
- 6: End at **350 Hawthorne Ave**

TABLE 1

TOXICOLOGICAL PROPERTIES OF REPRESENTATIVE SUSPECT CONTAMINANTS OR CONTAMINAT CATEGORIES

Project Location: 209 Brush Street, Oakland, CA 94607

Contract/Resolution No.: 5135

Project Title: Documentation and Oversight of Removal Action at 209 Bush Street, Oakland, CA 94607

Activities: Excavation to remove impacted soil, temporary on-site stockpiling of excavated materials, confirmation soil sampling, backfilling and compaction, removal and offsite disposal of excavated materials (if required), and site restoration

Prime Oversight Contractor: R&M Environmental and Infrastructure Engineering, Inc.

Port's Removal Action Contractor: NRC Environmental Services (Alameda, CA)

Compound/Class	Principal Routes of Entry	Acute Exposure Effects/Symptoms	Chronic Exposure Effects/Symptoms
Petroleum products such as unleaded gasoline, kerosene, naphthalene, xylenes, toluene, ethylbenzene, benzene, methyl tert-butyl ether (MTBE), diesel fuel, petroleum distillates, and motor oil	Inhalation, ingestion, and absorption	Depending on the compound and exposure level, symptoms/effects can include irritation of body tissues (particularly, eye, skin, and respiratory system) and disturbance of the central nervous system	Depending on the compound, concentration, and duration of exposure, symptoms/effects can include the following: blood disorders ranging from anemia to leukemia; redness and irritation of the eyes; blurred vision; irritation, defatting and dermatitis of skin; nasal/respiratory gastrointestinal irritation; nausea, vomiting, and diarrhea if inhaled; and liver, kidney, and cardiac disorder. Some compounds or compound classes are listed carcinogens (e.g., unleaded gasoline) or classified as a suspected human carcinogen (e.g., benzene). Others have been proven to produce cancer and developmental and systemic toxicity in laboratory animals with no significance yet determined in relation to human exposures (e.g., MTBE).
Lead (example of heavy metals)	Inhalation and ingestion	Gastrointestinal distress, kidney failure	Memory and concentration problems, nerve disorders, sleep disturbances, mood changes, muscle or joint pain, high blood pressure, difficulties during pregnancy, and other reproductive problems (in both men and women).

TABLE 1, Continued

TOXICOLOGICAL PROPERTIES OF REPRESENTATIVE SUSPECT CONTAMINANTS OR CONTAMINANT CATEGORIES

Compound/Class	Principal Routes of Entry	Acute Exposure Effects/Symptoms	Chronic Exposure Effects/Symptoms
Chromium (example of heavy metals)	Inhalation, ingestion, and absorption	Local irritation and skin lesion (direct contact); pulmonary edema or circulatory or respiratory failure; gastrointestinal symptoms	Pneumoconiosis, liver damage, gastrointestinal ulcers, heart disease
Acetone	Inhalation and ingestion	Effect depends on exposure level; effects at low concentrations include irritation of nose, throat, lungs, and eyes; effects at higher concentrations can include headache, lightheadedness, dizziness, unsteadiness, and confusion, depending on exposure duration	Effects similar to chronic exposure and dependent on exposure and route of entry. Tests in animal has shown skin damage and kidney disease
1,2,4-Trimethylbenzene	Inhalation and absorption	Irritant to skin, the eyes, and respiratory tract. If swallowed, aspiration into the lung may result in chemical pneumonitis; may cause effects on central nervous system.	Chronic bronchitis; defating of skin; possible effect on central nervous system
1,3,5-Trimethylbenzene	Inhalation and absorption	Same as for 1,2,4-Triethylbenzene	Same as for 1,2,4-Triethylbenzene

Trichloroethene (example of chlorinated hydrocarbons))	Inhalation and absorption	Irritation of eyes and skin, vertigo, visual disturbance, fatigue, sleepiness, giddiness or light-headedness, tremors, nausea and vomiting, cardiac arrhythmia	Carcinogen: shown to cause liver and kidney cancer in animals, liver damage, damage to central nervous system, heart failure
Polychlorinated biphenyls (PCBs)	Absorption, ingestion, and inhalation	Chloracne	Liver effect, suspected carcinogen
Dioxins	Absorption, ingestion, and inhalation	Irritation of eyes and skin, throat irritation, vertigo, visual disturbance, fatigue, sleepiness, tremors, nausea and vomiting, cardiac arrhythmia	Liver damage and kidney failure, carcinogen: shown to cause liver, lung and nasal tumors. Flammable when wet

**TABLE 2
JOB HAZARD ANALYSIS**

Project Location: 209 Brush Street, Oakland, CA 94607

Contract/Resolution No. 5135

Project Title: Documentation and Oversight of Removal Action at 209 Bush Street, Oakland, CA 94607

Activities: Excavation to remove impacted soil, temporary on-site stockpiling of excavated materials, confirmation soil sampling, backfilling and compaction, removal and offsite disposal of excavated materials (if required), and site restoration

Prime Oversight Contractor: R&M Environmental and Infrastructure Engineering, Inc.

Port's Removal Action Contractor: NRC Environmental Services (Alameda, CA)

Analysis By: Rafael Carranza and Cameron Adams

Reviewed By: Masood Ghassemi, P.E.

Principal Step	Potential Safety/Health Hazards	Recommended Controls
1. General hazards and safety considerations (applied to all steps)	<p>Exposure to site contaminants via absorption; inhalation and ingestion of contaminants through breathing, dermal contact, smoking and eating</p> <p>Injuries, mishaps, and trips, slips, and fall hazards when using or carrying tools and equipment to different locations</p> <p>Working with and around heavy equipment</p>	<p>Use personal protection equipment (PPE). Prohibit eating, drinking, smoking, or chewing. Wear work gloves. Wash hands after work or when taking breaks away from the work site for refreshment. Monitor the air in the excavation area and at breathing zone to ensure regulatory limits are not exceeded.</p> <p>Use proper body mechanics when lifting or carrying tools. Obey sensible lifting limits (60 lb. maximum per person manual lifting). Use mechanical lifting equipment (hand carts, trucks) to move large, awkward loads. Obtain help when lifting heavy or bulky items. Avoid carrying heavy objects above shoulder level. Keep walkways clear of all obstacles and non-essential items that can pose trip and fall hazards. Use proper/safe tools (e.g., wire dykes instead of razors for cutting wire, tape, rope, etc.). Use appropriate PPEs</p> <p>Make sure all equipment is in good working condition and operated by trained personnel and in accordance with the manufacturers' specifications. A competent mechanic will go over equipment to certify that it is in good and safe operating condition prior to being delivered to job site. Operator will inspect equipment before each day's use. Equipment</p>

		<p>must be shut/turned off when not attended or during service. Heavy equipment must be equipped with backup alarm. Always maintain eye and verbal contact with operator before approaching equipment; understand and review hand signals. All equipment should have backup alarms. Use hearing protection when exposed to excessive noise levels (greater than 85 dBA over an 8-hour work period). All heavy equipment operations shall require use of hearing protection.</p>
	Injuries and accidents related to traffic control	Be very careful about traffic entering or leaving the site from Brush Street. Must have personnel with vest and safety flag to direct traffic.
	High/low ambient temperature (heat/cold stress)	Monitor for heat/cold stress. Drink fluid to prevent dehydration. Limit work duration and take frequent breaks
2. Subsurface utility location	Trip and fall	Same as for Step 1
	Vehicle and pedestrian traffic	Wear bright orange safety vest; remain cognizant of traffic and cone the area if warranted.
3. Mobilize to and receiving equipment at work site	Tipping or "run away" of heavy equipment when downloading from low- bed trucks	Slowly unfasten the equipment; Have emergency break on or in neutral position. Look for traffic or cone off the area if warranted. Remain alert and maintain visual/verbal contact with operator. Make sure heavy equipment are equipped with backup alarm
	Hazards associated with working with and near heavy equipment	Same as for Step 1 (use of proper PPE, remain aware and maintain eye/visual contact with equipment operator, etc.)
4. Soil Excavation & Stockpiling, Loading and unloading of trucks	Striking underground utilities	Identify all underground utilities around the excavation site before work commences. USA notification required. Cease work immediately if unknown utility markers are uncovered. Hand excavate around live utilities or utilities that remain in place
	Excavation wall collapse	Provide good drainage of area adjacent to excavation and construct diversion ditches or dikes to prevent surface water from entering excavation, if such a possibility exists.

		Remove groundwater/rainwater from excavation and dispose of it properly. Store excavated material at least 2 feet away from the edge of excavation, prevent excessive loading of the excavation face. If deep excavation become necessary, provide sufficient stairs, ladders, or ramps when workers are to enter an excavation over 4 feet in depth. Place ladders no more than 25 feet apart laterally. Treat excavations over 4 feet deep as confined spaces. Complete and post confined space permit entry permit. Monitor atmosphere for flammable/toxic vapors, and oxygen deficiency. Slope, bench, shore, or sheet excavation over 5 feet deep if worker entry is required. Use a "spotter" during construction activities. Assign a competent person to inspect, determine soil classification, and decide as to the sloping, shoring, or sheeting requirements. A competent person shall perform daily inspections of excavations and at any time when field conditions change if personnel entry is required. Provide at least two means of exit for personnel working in excavations. Mark, identify, or barricade excavations.
	Inhalation of dust	Dampen soil using high water spray and cover stockpiled soil with plastic sheeting to prevent fugitive dust emissions. Use proper PPE. Same as for Steps 1 and 3
	Fire and explosion due to presence of pockets of accumulated flammable gases	Use of LEL meter to check for explosive gases
5. Backfilling and Compaction	Hazards associated with working with and near heavy equipment	Use of proper PPEs (gloves, eye glasses/face shield, etc.)
	Excavation wall collapse	Same as Step 1
	Inhalation of dust	
6. Collecting,	Inhalation, ingestion,	Same as Step 1 plus the following additional

<p>packaging and shipping samples of soil, water, and other excavated materials for analysis</p>	<p>absorption, and injection of contaminants; injuries while cutting tubing or bailer cord; Injuries, mishaps, and trips and fall hazards when moving coolers containing samples; chemical burns from preservatives in sample bottles and when using field test kits.</p>	<p>controls: monitor air in the breathing zones for organic vapors; use shears when cutting tubing or bailer cord (do not use open-blade knives). Train personnel in proper handling of sampling containers and field test kits. Keep MSDS sheets onsite. Keep deionized water on site to flush skin/eyes in the event of contact with chemicals. Clean up any spilled ice or water immediately, keep work space clear and organized, and obtain assistance when moving heavy coolers.</p>
<p>EQUIPMENT TO BE USED: Heavy equipment (backhoe, excavator, loader, hauling trucks, compactor, vacuum trucks);small tools, pumps, drum dolly, gasoline-powered generator, and field vehicles</p>		
<p>INSPECTION REQUIREMENTS: Inspecting all heavy equipment to ensure good operating condition prior to admitting them on to the site and on a daily basis.</p>		
<p>TRAINING REQUIREMENTS: 40-hour training, health and safety kickoff meeting, daily safety tailgate meeting</p>		



FETZONE

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NRC
Trainee Affiliation

Certificate of Completion

This is to certify that

TOMMY LAMANNA

As required by 29 CFR 1910.120 – HAZWOPER,
has successfully completed the following course:

**40 HOUR HAZARDOUS WASTE OPERATIONS
& EMERGENCY RESPONSE**

February 23, 2007

Certificate Number: 022307-58-1

Mark Fetzer
Environmental Health and Safety Trainer

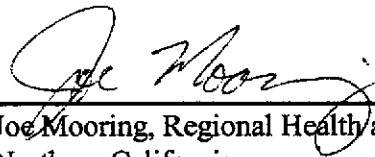
CERTIFICATE OF TRAINING

This is to certify that

Samuel Minor

successfully completed the 8 Hour Annual Refresher
requirements listed under OSHA Regulation 29 CFR 1910.120
and Title 8 GISO 5192 on

September 22nd, 2006



Joe Mooring, Regional Health and Safety Officer
Northern California
NRC Environmental Services

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ENVIRONMENTAL
SERVICES


CERTIFICATE OF TRAINING

This is to certify that

RANULFO SERRANO

successfully completed the 8 Hour Annual Refresher
requirements listed under OSHA Regulation 29 CFR 1910.120
and Title 8 GISO 5192 on

May 12th, 2006



Sean Kuipers
Health and Safety Officer
Instructor
NRC Environmental Services

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Bay Area Governments



ABAG Training Center
www.hazmatschool.com

CERTIFICATE OF COMPLETION

Masood Ghassemi

has successfully completed the course titled

OSHA 8-hr Annual HAZWOPER Refresher

Satisfies 29 CFR 1910.120(e)(8)

on

February 5, 2007

and has earned

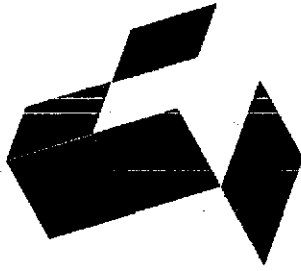
IACET authorized 0.8 CEUs (Continuing Education Units) from the program



Certificate No 54784
(verify at www.hazmatschool.com)

Brian Kirking, Training Director
Sharon McCreadie, Training Coordinator
www.abag.ca.gov; (510) 464-7964

Paul W. Gantt, REA
Safety Compliance Management, Inc.



THE INDUSTRIAL SAFETY & HAZMAT TRAINING GROUP

presents

Cameron Adams

with certification for the successful completion of

40 Hour Hazardous Waste Operations

per 29 CFR 1910.120(e) and 8 CCR 5192(e)

attending

February 5-8, 2007

in

Oakland, California

Certificate# 02050807-1

Issued by:

Robert Wasley, Instructor (408)242-2418

CERTIFICATE OF TRAINING

This is to certify that

Michael Lucas

**Has successfully completed 40 Initial Training in
Hazardous Waste Operations and Emergency Response
In accordance with 29 CFR 1910.120 and CCR 5192**

On

Training Includes:

Laws & Regulations, Hazard ID, Physical Properties of HazMats, Emergency Response Reference, HAZCOM, PPE, Respirators, Air Monitoring/Gas Testing, Decontamination, Health and Safety Plans, Blood Borne Pathogens, Excavation Safety, Confined Space Entry, Incident Investigation, Hazardous Waste Management, Drum and Tank Handling, Heat and Cold Stress.

September 15, 2006



Joe Mooring - CHMM
Regional Health and Safety Manager
Northern California
NRC Environmental Services

NRC
ENVIRONMENTAL
SERVICES

CERTIFICATE OF TRAINING

This is to certify that

Michael Markovich

successfully completed the 8 Hour Annual Refresher
requirements listed under OSHA Regulation 29 CFR 1910.120
and Title 8 GISO 5192 on

Training Includes:

Laws & Regulations, Hazard ID, Physical Properties of HazMats, Emergency Response Reference, HAZCOM, PPE, Respirators, Air Monitoring/Gas Testing, Decontamination, Health and Safety Plans, Blood Borne Pathogens, Excavation Safety, Confined Space Entry, Incident Investigation, Hazardous Waste Management, Drum and Tank Handling, Heat and Cold Stress.

November 1, 2006



Joe Mooring - CHMM
Regional Health and Safety Officer
Northern California
NRC Environmental Services



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ABAG Training Center
www.hazmatschool.com

CERTIFICATE OF COMPLETION

Rafael Carranza

has successfully completed the course titled

OSHA 8-hr Annual HAZWOPER Refresher

Satisfies 29 CFR 1910.120(e)(8)

on

August 18, 2006

and has earned

IACET authorized 0.8 CEUs (Continuing Education Units) from the program



Certificate No 51361
(verify at www.hazmatschool.com)

Brian Kirking, Training Director
Sharon McCreadie, Training Coordinator
www.abag.ca.gov; (510) 464-7964

Paul W. Gantt, REA
Safety Compliance Management, Inc.



CERTIFICATE OF COMPLETION

8 HOUR REFRESHER

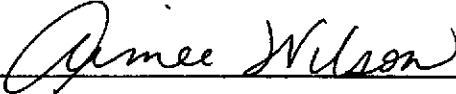
HEALTH & SAFETY TRAINING

Jesus Nuno

has successfully completed the 8-Hour Refresher Health and Safety Training course, satisfying the OSHA Hazardous Waste Operators and Emergency Response Standard [29 CFR 1910.120(e)(8),(q)(8) and 8 CCR 5192 (e)(q)].

Class Date: June 10, 2006

Expiration Date: June 10, 2007


Aimee Wilson, Regional Health & Safety Manager

Pier D, Berth D47 * Long Beach, CA 90802 * Phone: 562-432-1304

006-002

Certificate of Completion

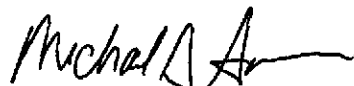
This is to certify that

David DeOsso

has successfully completed the course

**Hazardous Waste Site Operations
8 HOUR REFRESHER TRAINING
29 CFR 1910.120**

conducted by
NRC ENVIRONMENTAL SERVICES



Michael A. Amen, CIH, CSP, CHMM
Course Instructor

Date: May 10th, 2006

Location: Alameda, Ca.

Hours: 8