February 24, 2004

Mr. Barney Chan Alameda County Health Care Services Agency Department of Environmental Health 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502

Re:

**Interim Investigation Data Report** 

1137-1167 65<sup>th</sup> Street Oakland, California 94608 Case No.: RO0000082





Dear Mr. Chan:

On behalf of John Nady, Cambria Environmental Technology, Inc. (Cambria) is pleased to submit this *Interim Investigation Data Report* for the above site. This report summarizes the findings of the first of three phases of the assessment described in the Alameda County Health Care Services Agency (ACHCSA) approved August 26, 2003 *Investigation Work Plan* prepared by Cambria. This report presents revised well locations and screen intervals. Upon ACHCSA concurrence, Cambria will commence well installation, which is the second phase of assessment in the workplan.

Based on the current and previous investigations, Cambria offers these conclusions:

- No groundwater or surface water sensitive receptors were identified within ½-mile of the site.
- Underground utilities do not appear to be acting as conduits for preferential migration of site compounds of concern.
- The B-zone is comprised of silty sand stringers and only exists in the southwestern portion of the site.
- Hydrocarbons and VOCs are commingled at the site. A significant issue is petroleum
  hydrocarbons in soil and groundwater above the ESLs across the site and offsite. Another issue
  is benzene and xylene and select halogenated VOCs in a few soil and groundwater locations
  onsite and offsite.
- Concentrations of compounds of concern in onsite and offsite soil and groundwater have been sufficiently defined to merit the installation of monitoring wells.

Based on our findings from these investigations, Cambria recommends a few modifications to the initial monitoring well installation plan presented in the ACHCSA approved August 26, 2003 *Investigation Work Plan.* Cambria recommends installation of the following monitoring wells:

Cambria Environmental Technology, Inc.

5900 Hollis Street Suite A Emeryville, CA 94608 Tel (510) 420-0700 Fax (510) 420-9170

Mr. Barney Chan February 24, 2004

### CAMBRIA

- MW-2A, MW-3A, MW-4A, and MW-5A screened from 5 to 15 ft bgs (A-zone) and MW-1A and MW-6A screened from 5 to 12 ft bgs (A-zone) to monitor concentrations of compounds of concern in the perched/shallow groundwater zone;
- MW-1B and MW-6B screened from 16 to 22 ft bgs (B-zone) to monitor concentrations of compounds of concern in the intermediate zone located in the southwestern portion of the property; and
- MW-1C, MW-4C, and MW-6C screened from approximately 28 to 40 ft bgs (C-zone) to monitor concentrations of compounds of concern and the groundwater gradient in the true groundwater zone.

Upon completion of well installation activities, Cambria will submit an investigation report detailing our findings.

If you have any questions or comments regarding this report, please contact me at (510) 420-3338.

Sincerely,

Cambria Environmental Technology, Inc.

Jason D. Olson, E.I.T.

Project Manger

Enclosure: February 24, 2004 Interim Investigation Data Report

ce: Mr. Frederic Schrag, 6701 Shellmound Street, Emeryville, California 94608 Edward P. Sangster, Kirkpatrick & Lockhart, Four Embarcadero Center, 10th Floor, San Francisco, CA 94111

### **INTERIM INVESTIGATION DATA REPORT**

1137-1167 65<sup>th</sup> Street Oakland, California 94608 Case No.: RO0000082

February 24, 2004



Prepared for Submittal to:

Mr. Barney Chan
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Prepared by:

Cambria Environmental Technology, Inc. 5900 Hollis Street, Suite A Emeryville, California 94608

Jason D. Olson, E.I.T.

Project Manager

Bob Clark-Riddell, P.E.

Principal Engineer

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### INTERIM INVESTIGATION DATA REPORT

1137-1167 65<sup>th</sup> Street Oakland, California 94608 Case No.: RO0000082

February 24, 2004

#### INTRODUCTION



On behalf of John Nady, Cambria Environmental Technology, Inc. (Cambria) is submitting this *Interim Investigation Data Report* for the above-referenced site. During the September 11, 2003 Cambria meeting with Mr. Barney Chan and Mr. Scott Seery of the Alameda County Health Care Services Agency (ACHCSA), ACHCSA approved the first and second of three phases of site assessment proposed in Cambria's August 26, 2003 *Investigation Work Plan* (work plan). The first phase of assessment included a soil boring investigation, conduit study, and sensitive receptor survey designed to address site data gaps. The planned second phase includes site well installation activities to monitor groundwater concentration trends by obtaining repeatable data. The third phase, which is pending the second phase and regulatory approval, is a soil gas investigation designed to assess potential indoor air impacts from site compounds of concern.

This report summarizes the findings of the first phase of assessment and recommends well locations for ACHCSA concurrence to begin the second phase of the assessment. The site background, field activities summary, preliminary data findings, and conclusions and recommendations are presented below. Additional details will be presented in an investigation report submitted after well installation activities.

#### SITE BACKGROUND

### **Site Description**

The site is currently comprised of a group of buildings separated by narrow walkways and occupying the addresses of 1137, 1145, 1147, and 1167, Oakland, California (Figure 1). The site topography is at an elevation of approximately 35 feet above mean sea level (ft msl). The site vicinity is of mixed residential, commercial, and light industrial use.

#### **Regional Geology and Setting**

The site is located approximately ¾-miles east of the San Francisco Bay. The site is situated on alluvial fan deposits of the Temescal Formation, comprised of interfingering lenses of clayey gravel, sandy silt, clay, and sand-clay-silt mixtures (Radburch, D.H., 1957).

### **Site Geology**

Based on previous investigations, the subsurface soils generally consist of interbedded layers of low permeability silts and clays and moderate permeability sandy silt and clay mixtures to a total explored depth of 36 ft bgs. A discontinuous layer of silty sand varying in thickness from 0.5 to 3.5-feet is present from 15 to 20 ft bgs in the southeastern portion of the site. For the August 26, 2003 work plan, Cambria prepared three hydrogeologic cross sections to facilitate future placement of boring and well screen intervals. The cross section locations are shown on Figure 2. The cross sections are included as Figures 3, 4, and 5. These cross sections will be updated with data from this investigation upon the completion of well installation activities. Boring logs for the January 2004 investigation are included in Appendix A.



### Site Hydrogeology

Several water-bearing zones have been identified beneath the site. A perched zone ranging in thickness from 1.5 to 2.0-feet is typically present at varying depths from approximately 3.5 to 6 feet bgs. A shallow water-bearing zone ranging in thickness of 1 to 8 feet is present at varying depths from approximately 6 to 12 ft bgs. In certain areas of the site, the perched and shallow water-bearing zones appear to be hydraulically connected. This perched and/or shallow water-bearing zone (present at approximately 3.5 to 12 ft bgs) has been designated the A-zone. A semi-confined or confined water-bearing zone is present in the southeastern portion of the site at approximately 16 to 22 ft bgs, and has been designated the B-zone. A deeper, confined or semi-confined water-bearing zone begins at approximately 28 ft bgs, and has been designated the C-zone. This water bearing zone may represent the true groundwater in the area. The lower extent of the C-zone is not yet defined.

The groundwater gradients and flow directions for the various water-bearing zones cannot be adequately determined based on available data, and will be evaluated by the planned monitoring wells. The inferred direction of groundwater flow for all water-bearing zones beneath the site is west towards the bay.

### Site Groundwater Use and Sensitive Receptor Survey

Cambria understands that site groundwater is in the East Bay plain beneath and adjacent to Emeryville, where groundwater is not considered a potential drinking water resource. As part of this investigation, Cambria conducted a sensitive receptor survey for beneficial use wells (e.g., municipal supply, domestic, irrigation, etc.) and surface water bodies within ½-mile of the site. While several environmental monitoring wells were located during the survey, Cambria did not locate any surface water bodies or beneficial use wells within ½-mile of the site.

### **Conduit Study**

As part of this investigation, Cambria conducted a conduit study to determine if preferential migration pathways exist near the site and merit additional investigation. Underground utilities are shown on Figure 1. No preferential migration pathways were located adjacent to the site in Peabody Lane. Based on site concentrations in grab groundwater samples near 65<sup>th</sup> Street, it is unlikely that preferential migration is occurring via the underground utilities located in 65<sup>th</sup> Street.

### Acceptal Hallace

#### FIELD ACTIVITIES SUMMARY



In January 2004, Cambria advanced nineteen soil borings to further define the extent of petroleum hydrocarbons and volatile organic compounds (VOCs) in soil and groundwater beneath the site (Figure 1). Soil samples were collected at the intervals specified in the August 26, 2003 work plan. Cambria collected nine A-zone, one B-zone, and four C-zone groundwater samples. To prevent cross contamination of deeper groundwater samples, a dual-walled direct push rig was used to obtain multiple discrete depth groundwater samples (e.g., A-zone and C-zone groundwater samples were collected from boring SB-17A/C using a dual-walled direct push rig). Soil and groundwater samples were analyzed for hydrocarbons and VOCs in accordance with the August 26, 2003 work plan. The borings are summarized in the tables below.

A-Zone B	orings
----------	--------

A-Zone Borings										
	Screen	Depth to								
Boring	Interval	Water								
Location	(ft bgs)	(ft bgs)								
SB-12A	8 to 13	4.5								
SB-13	NA	Soil Only								
SB-14A	2 to 7	4.0								
SB-15A	8 to 13	4.0								
SB-16A	8 to 13	4.0								
SB-17A/C	8 to 13	No Recovery								
SB-18A	7 to 12	1.5								
SB-19A	14 to 19	No Recovery								
SB-20A/C	8 to 13	8.0								
SB-21A	4.5 to 9.5	8.5								
SB-22A/C	5 to 10	No Recovery								
SB-23	NA	Soil Only								
SB-24	NA	Soil Only								
SB-25A	5 to 10	5.0								
SB-26A	8 to 13	4.0								

**B-Zone Borings** 

	Screen	Depth to
Boring	Interval	Water
Location	(ft bgs)	(ft bgs)
SB-17B	17 to 22	16.5

C-Zone Borings

C-Zone Donngs										
	Screen	Depth to								
Boring	Interval	Water								
Location	(ft bgs)	(ft bgs)								
SB-14C	30.5 to 35.5	No Recovery								
SB-17A/C	29 to 34	No Recovery								
SB-18B/C**	26 to 31	25.0								
SB-18B/C	35 to 40	34.0								
SB-20A/C	29 to 34	31.0								
SB-22A/C	41 to 46*	Not Measured								
SB-25C	29 to 34	29.0								

<sup>\*</sup> dual-walled direct push rig not used

Based on field observations, the B-zone is comprised of a silty sand / sandy silt layer approximately 0.5 to 3.5 ft thick (boring SB-17B) and is present from approximately 16 to 22 ft bgs (borings SB-7

<sup>\*\*</sup> Sample SB-18B actually collected in C-zone.

and SB-17B). The B-zone was only observed in borings SB-7, SB-17A/C, SB-17B, and SB-18B/C located in the southwestern portion of the site. Note that for boring SB-18 Cambria collected grab groundwater samples from 26 to 31 feet bgs (sample SB-18B) and from 35 to 40 (sample SB-18C). Upon review of boring logs and groundwater analytical results from SB-18B and SB-18C, Cambria considers the sample designated as SB-18B to reflect first encountered groundwater from the C-zone and sample SB-18C to represent deeper groundwater from the C-zone. In general, the same VOCs were detected at similar concentrations in samples from SB-18B and SB-18C (see Table 4).

### PRELIMINARY DATA FINDINGS



Cambria screened all current and historic soil and groundwater analytical data against the July 2003 Environmental Screening Limits (ESLs) established by the Regional Water Quality Control Board – San Francisco Bay Region (RWQCB) for commercial sites overlying a non-drinking water aquifer. Cambria's data findings for hydrocarbons and VOCs are described below. Soil and groundwater analytical data are summarized in Tables 1, 2, 3, and 4. Hydrocarbon and VOC concentrations exceeding the ESLs in soil and groundwater are shown on Figures 6, 7, 8, and 9. Analytical laboratory reports are included in Appendix B.

### **Hydrocarbons**

Hydrocarbon Concentrations in Soil: Hydrocarbon concentrations in soil exceed the ESLs in five areas of the site (see Figure 6): 1) shallow soil in the immediate area surrounding the former interior USTs, 2) shallow soil in the immediate area of the former exterior USTs, 3) shallow soil in the area of the former product piping and floor drain (borings SB-8, SB-21, SB-22, and SB-24), 4) soil from approximately 3.5 to 17.5 ft bgs in the southwestern most portion of the site (borings SB-7 and SB-18), and 5) shallow soil in the area of Peabody lane defined by borings SB-5 and SB-15.

Hydrocarbon Concentrations in Groundwater: Hydrocarbon concentrations in the B-zone and C-zone groundwater samples did not exceed the ESLs. Hydrocarbon concentrations in groundwater exceeding the ESLs in the A-zone primarily surround the five hydrocarbon soil areas discussed above (see Figure 8). While A-zone concentrations appear to have migrated offsite, the detections in boring SB-20 (the presumed most downgradient boring) are just above the ESL limit.

#### **VOCs**

**VOCs in Soil:** VOC concentrations in soil exceed the ESLs in two areas of the site (see Figure 7): 1) benzene and xylene concentrations in soil at 7.5 ft bgs (at the top of the groundwater table) located

downgradient of the former gasoline UST (borings SB-14 and SB-15) and 2) xylene concentrations in soil from 7.5 to 17.5 ft bgs in the southwestern most portion of the site (boring SB-18).

**VOCs in Groundwater:** VOC concentrations in groundwater exceeding the ESLs are shown on Figure 9. VOC concentrations in A-zone groundwater exceeding the ESLs were limited to benzene and xylenes near the former interior, exterior, and gasoline USTs. VOC concentrations in B-zone and C-zone groundwater exceeding the ESLs were tetrachloroethene (PCE), trichloroethene (TCE), and cis 1,2-dichloroethene (cis 1,2-DCE) near the southwestern most portion of the site (borings SB-17 and SB-18).



### CONCLUSIONS AND RECOMMENDATIONS

Based on the current and previous investigations, Cambria offers these conclusions:

- No groundwater or surface water sensitive receptors were identified within ½-mile of the site.
- Underground utilities do not appear to be acting as conduits for preferential migration of site compounds of concern.
- The B-zone is comprised of silty sand stringers and only exists in the southwestern portion of the site.
- Hydrocarbons and VOCs are commingled at the site. A significant issue is petroleum
  hydrocarbons in soil and groundwater above the ESLs across the site and offsite. Another issue
  is benzene and xylene and select halogenated VOCs in a few soil and groundwater locations
  onsite and offsite.
- Concentrations of compounds of concern in onsite and offsite soil and groundwater have been sufficiently defined to merit the installation of monitoring wells.

Based on our findings from these investigations, Cambria recommends a few modifications to the initial monitoring well installation plan presented in the ACHCSA approved August 26, 2003 *Investigation Work Plan*. Cambria recommends installation of the following monitoring wells:

- MW-2A, MW-3A, MW-4A, and MW-5A screened from 5 to 15 ft bgs (A-zone) and MW-1A and MW-6A screened from 5 to 12 ft bgs (A-zone) to monitor concentrations of compounds of concern in the perched/shallow groundwater zone;
- MW-1B and MW-6B screened from 16 to 22 ft bgs (B-zone) to monitor concentrations of compounds of concern in the intermediate zone located in the southwestern portion of the property; and

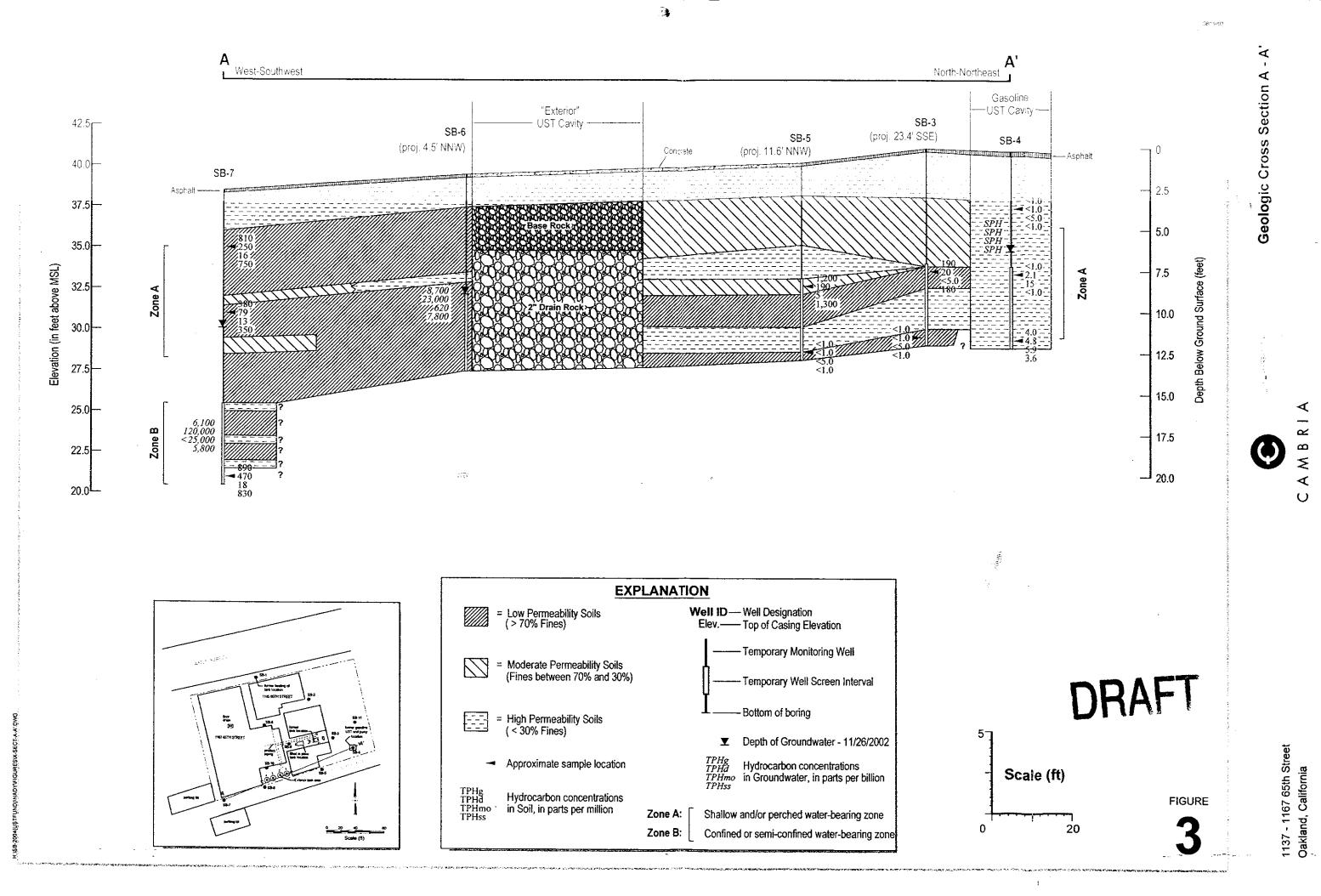
Interim Investigation Data Report 1137-1167 65<sup>th</sup> Street Oakland, California 94608 February 24, 2004

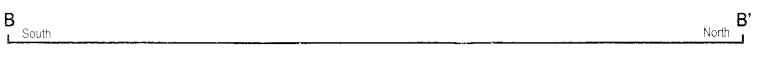
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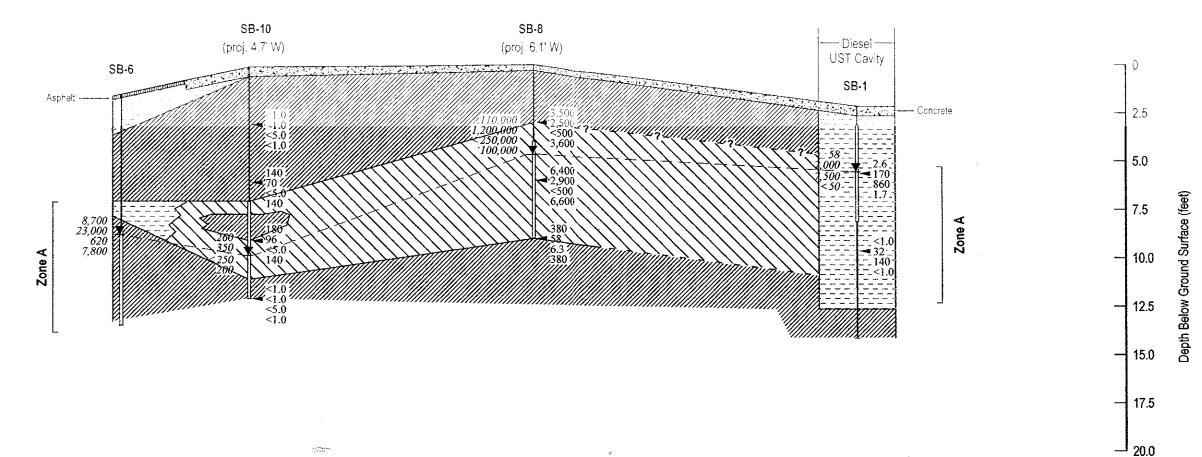
 MW-1C, MW-4C, and MW-6C screened from approximately 28 to 40 ft bgs (C-zone) to monitor concentrations of compounds of concern and the groundwater gradient in the true groundwater zone.

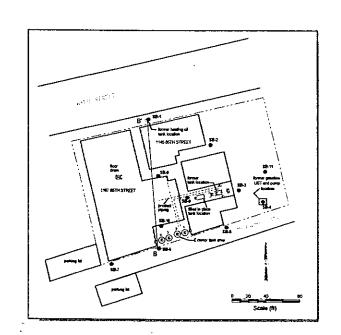
Upon completion of well installation activities, Cambria will submit an investigation report detailing our findings.











42.5

40.0

37.5

35.0

32.5

30.0

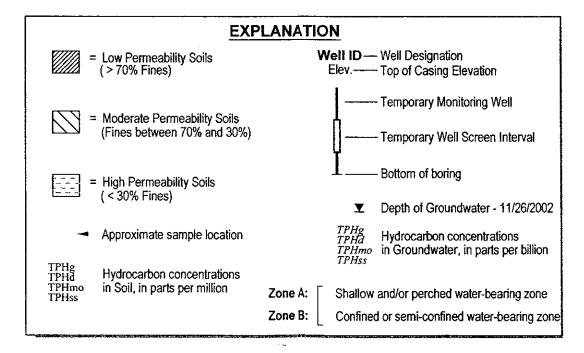
27.5

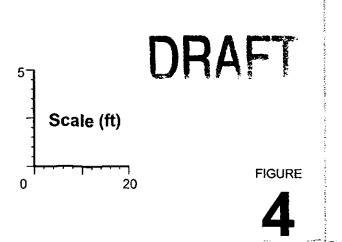
25.0

22.5

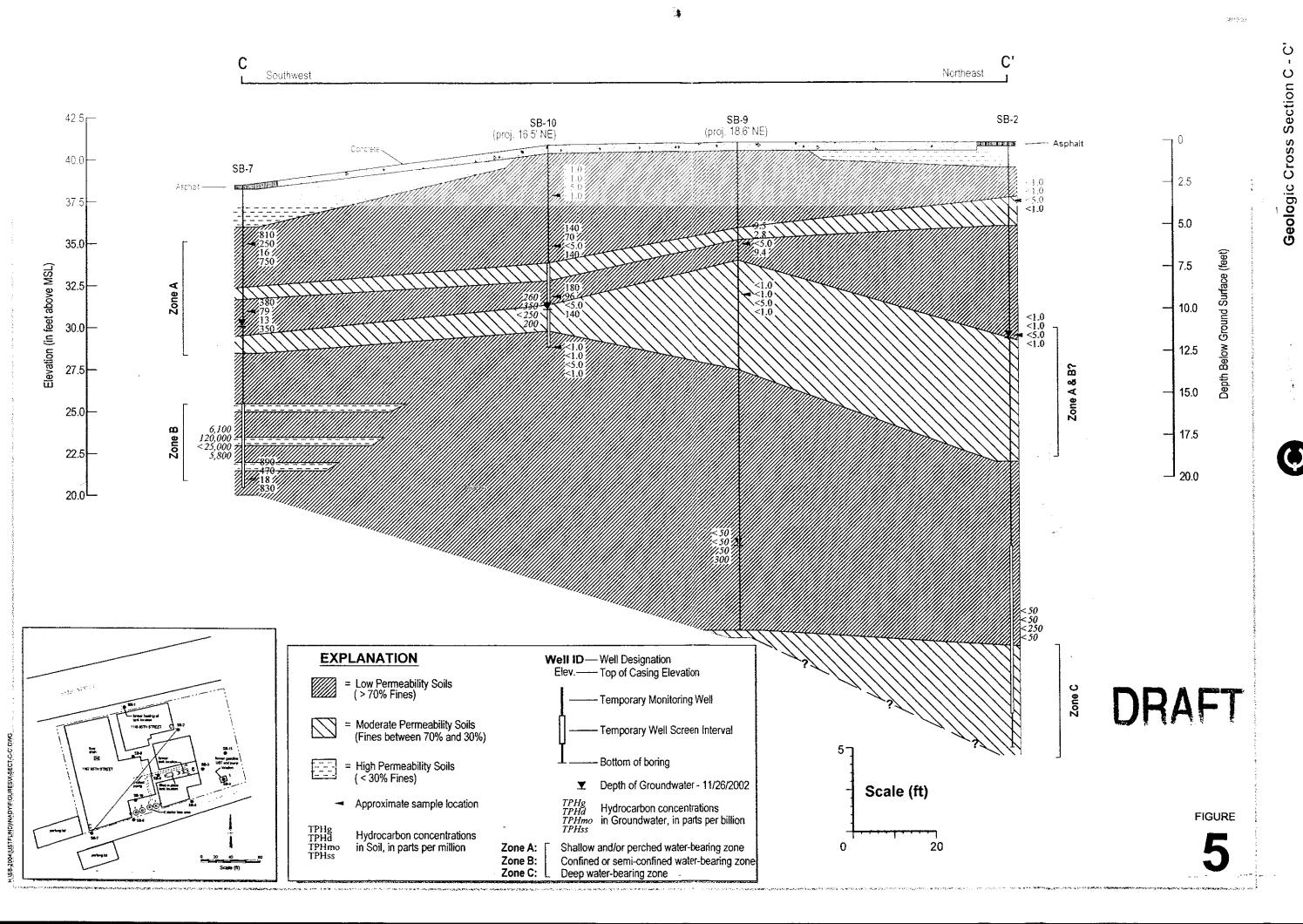
20.0

Elevation (above MSL)

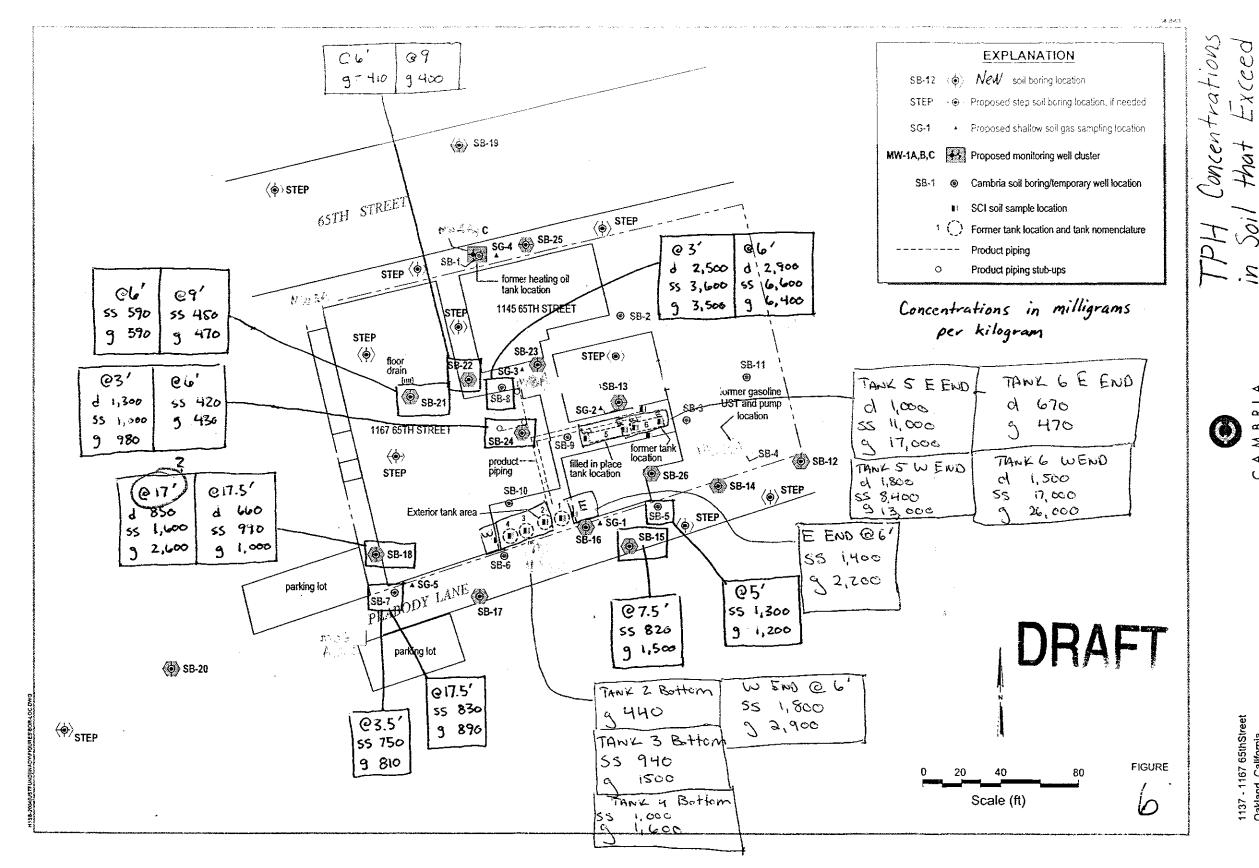




1137 - 1167 65th Street Oakland, California



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that

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TPH Concentrations Groundwater that

1137 - 1167 65thStreet Oakland, California

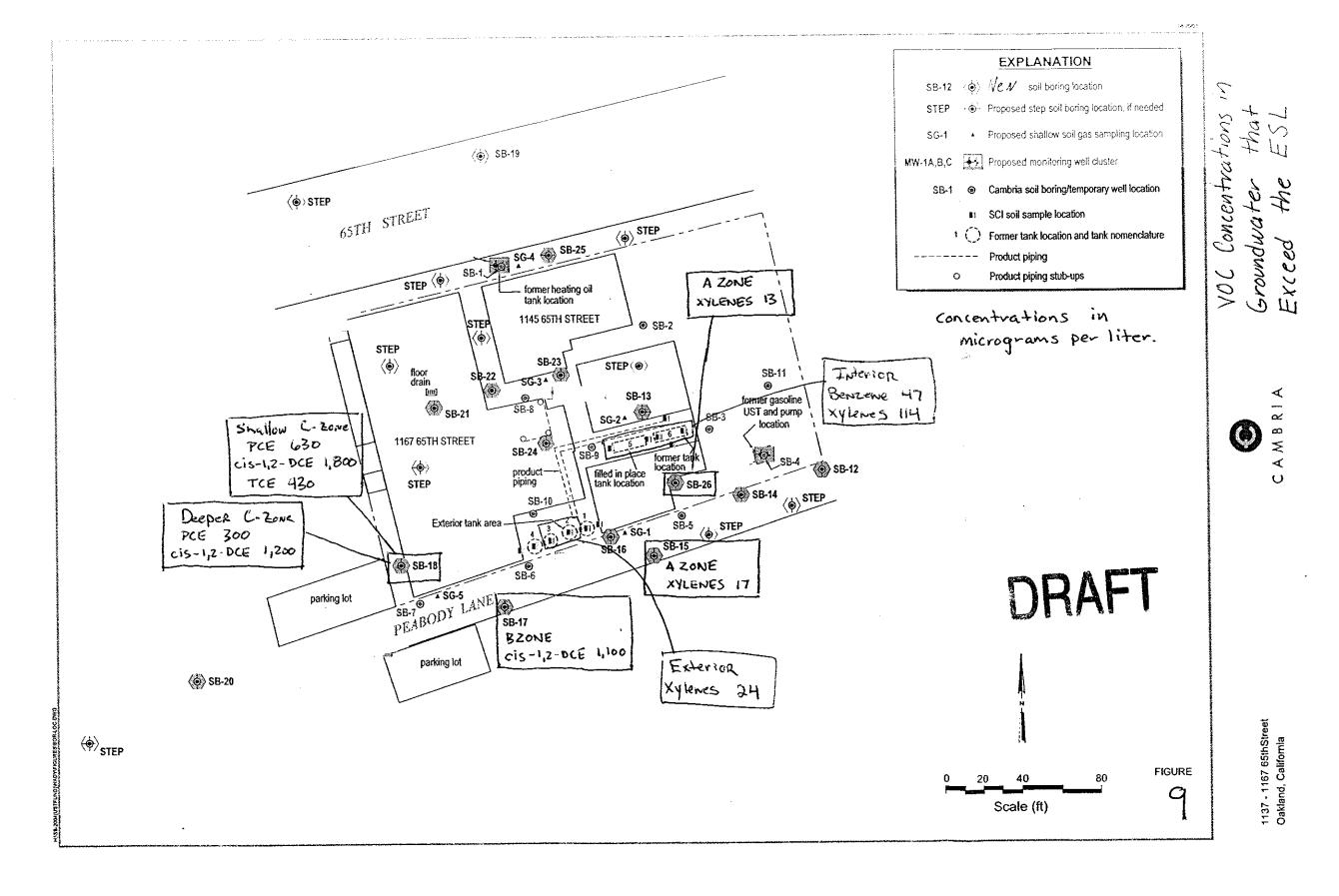


Table 1. Soil Analytical Data: Petroleum Hydrocarbons - 1137-1167 65th Street, Oakland, California

	Date	Sample				
Sample ID	Sampled	Depth	TPHmo	TPHd	TPHss	TPHg
Residential ESL, n	on-drinking water	(ft)	500	500	mg/kg 100	100
Commercial ESL,			1,000	500	400	400
	<u></u>		.,			
Current Cambria .	Samples					
SB-11-7.5	11/25/2002	7.5	<5.0	<1.0	<1.0	<1.0
SB-13@6.0	1/5/2004	6.0	<5.0	21	150	140
SB-13@11.5	1/5/2004	11.5	<5.0	41	260	260
SD 14075	1.60/2004	76	-E O	64	100	212
SB-14@7.5	1/9/2004	7.5	<5.0	64	100	210
SB-14@11.5	1/9/2004	11.5	<5.0	<1.0	<1.0	<1.0
SB-15@7.5	1/12/2004	7.5	9.3	190	820	1,500
SB-15@11.5	1/12/2004	11.5	<5.0	<1.0	<1.0	<1.0
	1/12/2001	11.5	40.0	41.0	41.0	11.0
SB-16@7.5	1/12/2004	7.5	<5.0	59	49	90
SB-16@11.5	1/12/2004	11.5	<5.0	<1.0	<1.0	<1.0
SB-17@3.5	1/8/2004	3.5	210	110	<1.0	<1.0
SB-17@7.5	1/8/2004	7.5	<5.0	<1.0	<1.0	<1.0
SB-17@11.5	1/8/2004	11.5	<5.0	<1.0	<1.0	<1.0
SB-17@17.5	1/8/2004	17.5	<5.0	<1.0	<1.0	<1.0
SB-17@20	1/8/2004	20.0	5.5	1.4	<1.0	<1.0
SB-18@3.5	1/6/2004	3.5	<5.0	<1.0	<1.0	<1.0
SB-18@7.5	1/6/2004	7.5	<50	230	310	340
SB-18@11.5	1/6/2004	11.5	<5.0	8.5	5.7	6.2
SB-18@17	1/6/2004	17.0	<100	850	1,600	2,600
SB-18@17.5	1/9/2004	17.5	<50	660	990	1,000
SB-18@20	1/9/2004	20.0	<5.0	<1.0	<1.0	<1.0
SB-21@3	1/20/2004	3.0	<5.0	<1.0	<1.0	<1.0
SB-21@6	1/20/2004	6.0	<25	220	<1.0 590	<1.0 <b>590</b>
SB-21@9	1/20/2004	9.0	<25	270	450	470
0112167	1/20/2004	2.0	723	210	7.JU	4/0
SB-22@3.0	1/7/2004	3.0	<5.0	1.1	<1.0	<1.0

Table 1. Soil Analytical Data: Petroleum Hydrocarbons - 1137-1167 65th Street, Oakland, California

	Date	Sample				
Sample ID	Sampled	Depth	TPHmo	TPHd	TPHss	TPHg
		(ft)	<u> </u>		mg/kg	<del></del>
	on-drinking water		500	500	100	100
Commercial ESL,	non-drinking water	er	1,000	500	400	400
SB-22@6.0	1/7/2004	6.0	11	230	220	410
SB-22@9.0	1/7/2004	9.0	6.7	150	220	400
SB-23@3	1/6/2004	3.0	<5.0	<1.0	<1.0	<1.0
SB-23@6	1/6/2004	6.0	<5.0 <1.0 <1.0		<1.0	
SB-23@9	1/6/2004	9.0	<5.0	<1.0	<1.0	<1.0
SB-24@3			<250	1,300	1,000	980
SB-24@6	1/5/2004	3.0 6.0	8.9	220	420	430
SB-24@9	1/5/2004	9.0	<5.0	54	43	43
SB-26@7.5	1/7/2004	7.5	6.8	150	220	240
SB-26@11.5	1/7/2004	11.5	<5.0	67	98	180
revious Cambria SB-1-3.5	Samples 11/25/2002	3.5	860	170	1.7	2.6a,b
SB-1-7.5	11/25/2002	7.5	140	32	<1.0	<1.0
SB-2-3.5	11/25/2002	3.5	<5.0	<1.0	<1.0	<1.0
SB-2-11.5	11/25/2002	11.5	<5.0	<1.0	<1.0	<1.0
SB-3-7.5	11/25/2002	7.5	<5.0	20	180	190a
SB-3-11.5	11/25/2002	11.5	<5.0	<1.0	<1.0	<1.0
SB-4-3.5	11/25/2002	3.5	<5.0	<1.0	<1.0	<1.0
SB-4-7.5	11/25/2002	7.5	15	2.1	<1.0	<1.0
SB-4-11.5	11/25/2002	11.5	5.9	4.8	3.6	4.0
SB-5-7.5	11/25/2002	7.5	5	190	1,300	1,200a
SB-5-11.5	11/25/2002	11.5	<5.0	<1.0	<1.0	<1.0
SB-7-3.5	11/25/2002	3.5	16	250	750	810a
SB-7-7.5	11/25/2002	7.5	13	79	350	380a
SB-7-17.5	11/25/2002	17.5	18	470	830	890a
SB-8-3	11/25/2002	3.0	<500	2,500	3,600	3,500a
SB-8-6	11/25/2002	6.0	<500	2,900	6,600	6,400a
SB-8-9	11/25/2002	9.0	6.3	58	380	380a
SB-9-6	11/25/2002	6.0	<5.0	2.8	9.4	9.5a

Table 1. Soil Analytical Data: Petroleum Hydrocarbons - 1137-1167 65th Street, Oakland, California

	Date	Sample					
Sample ID	Sampled	Depth	TPHmo	TPHd	TPHss	TPHg	
		(ft)	←		mg/kg	<del>&gt;</del>	
Residential ESL, n	on-drinking water	•	500	500	100	100	
Commercial ESL,	non-drinking wate	er	1,000	500	400	400	
SB-9-9	11/25/2002	9.0	<5.0	<1.0	<1.0	<1.0	
SB-10-3	11/25/2002	3.0	<5.0	<1.0	<1.0	<1.0	
SB-10-6	11/25/2002	6.0	<5.0	70	140	140a	
SB-10-9	11/25/2002	9.0	<5.0	96	140	180a	
SB-10-12	11/25/2002	12.0	<5.0	<1.0	<1.0	<1.0	
Previous SCI Sam	ples						
Tank 1 Bottom	2/25/2002			69	74	110	
Tank 2 Bottom	2/25/2002			34	280	440	
Tank 3 Bottom	2/25/2002		***	220	940	1,500	
Tank 4 Bottom	2/25/2002			12	1,000	1,600	
E End @ 6'	2/26/2002	6.0		220	1,400	2,200	
W End @ 6'	2/26/2002	6.0		390	1,800	2,900	
Pipe #1	2/26/2002			68	< 0.99	< 0.99	
Pipe #2	2/26/2002			6.8	< 0.95	< 0.95	
Tank 5 E End	2/13/2002			1,000	11,000	17,000	
Tank 5 W End	2/13/2002			1,800	8,400	13,000	
Tank 6 N Wall	3/7/2002	2.0		53	< 0.98	< 0.98	
Tank 6 S Wall	3/7/2002	5.0		260	270	310	
Tank 6 E End	2/13/2002			670	300	470	
Tank 6 W End	2/13/2002			1,500	17,000	26,000	

#### **Abbreviations and Methods:**

Bold values represent concentrations above the commericial ESL.

mg/kg = Milligrams per kilogram, equivalent to parts per million (ppm)

-- = Not available, not analyzed, or does not apply

ND = Not detected above laboratory reporting limit; see laboratory report for individual reporting limits

TPHmo = Total petroleum hydrocarbons as motor oil by EPA Method 8015C with silica gel cleanup

TPHd = Total petroleum hydrocarbons as diesel by EPA Method 8015C with silica gel cleanup

TPHss = Total petroleum hydrocarbons as Stoddard solvent by EPA Method 8021B/8015Cm

TPHg = Total petroleum hydrocarbons as gasoline by EPA Method 8021B/8015Cm

TPHnap = Total petroleum hydrocarbons as naphtha by EPA Method 8015m/8020

Table 1. Soil Analytical Data: Petroleum Hydrocarbons - 1137-1167 65th Street, Oakland, California

	Date	Sample				
Sample ID	Sampled	Depth	TPHmo	TPHa	TPHss	TPHg
		(ft)	<del></del>		mg/kg	
Residential ESL, n	on-drinking water	ī	500	500	100	100
Commercial ESL,	non-drinking wate	er	1,000	500	400	400

### Lead by EPA Method 6010C

a = Laboratory note: TPH pattern that does not appear to be derived from gasoline (Stoddard solvent/mineral spirit?)

b = Laboratory note: heavier gasoline range compounds are significant (aged gasoline?)

Residential ESL = Table B - Environmental Screening Levels Shallow Soil <3 meters (Groundwater is not a Current or Potential Source of Drinking Water) established by the SFBRWQCB, Interim Final July 2003.

Commercial ESL = Table B - Environmental Screening Levels Shallow Soil <3 meters (Groundwater is not a Current or Potential Source of Drinking Water) established by the SFBRWQCB, Interim Final July 2003.

Table 2. Soil Analytical Data: Volatile Organic Compounds - 1137-1167 65th Street, Oakland, California

				,		,			<del>,</del>				<del></del>
Sample ID	Date Sampled	Depth	Benzeng		Edigilia		Too do do	Cis. 12.7.	Trichlor,	in Child	12-20.	Metrylene S.	Though the state of the state o
Pasidential non	-drinking water E	(ft)	180	9,300	4,700	1.600	ug 88	y/kg	260	6.7	52	<u>→</u> 520	
****	n-drinking water E		380	9,300	13,000	1,500 1,500	250	1,600 3,600	730	19	150	1,500	
Commercial, noi	n-diffiking water i	LOL	360	9,300	13,000	1,300	230	3,000	730	19	130	1,300	-
Current Cambri	a Samples												
SB-13@6	1/5/2004	6.0	<50	<50	<50	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
SB-13@11.5	1/5/2004	11.5	<100	<100	<100	<100	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
SB-14@7.5	1/9/2004	7.5	640	390	1,800	5,000	<400	<400	<400	<400	<400	<400	
SB-14@11.5	1/9/2004	11.5	<5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
SB-15@7.5	1/12/2004	7.5	<1,000	<1,000	<1,000	2,400	<400	<400	<400	<400	<400	<400	
SB-15@11.5	1/12/2004	11.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
SB-16@7.5	1/12/2004	7.5	<50	<50	69	110	<100	<100	<100	<100	<100	<100	
SB-16@11.5	1/12/2004	11.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	
SB-17@3.5	1/8/2004	3.5	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	< 5.0	<5.0	<5.0	<5.0	
SB-17@7.5	1/8/2004	7.5	<5.0	< 5.0	<5.0	<5.0	< 5.0	8.3	< 5.0	<5.0	< 5.0	< 5.0	
SB-17@11.5	1/8/2004	11.5	<5.0	<5.0	<5.0	<5.0	< 5.0	180	<5.0	8.3	7.4	< 5.0	
SB-17@17.5	1/8/2004	17.5	<5.0	<5.0	<5.0	< 5.0	<10	170	<10	<10	<10	<10	
SB-17@20	1/8/2004	20.0	<5.0	<5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
SB-18@3.5	1/6/2004	2.5	<5.0	-E O	-5 O	-5 O	-E O	.E.O	.E.O	.e.o		.6.0	
SB-18@7.5	1/6/2004	3.5 7.5	<200	<5.0 <200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
SB-18@11.5	1/6/2004	11.5	<5.0		310	<b>1,600</b> 15	<400 <50	<400	<400	<400	<400	<400	
SB-18@17	1/6/2004	17.0	<200	<5.0 <200	<5.0			<50 	<50	<50	<50	<50	
SB-18@17.5	1/9/2004	18.5	<250	<200 <250	1,100 570	6,500 2,900	<400 <400	<400	<400	<400	<400	<400	
SB-18@20	1/9/2004	20.0	<230 <5.0	<5.0	<5.0	2,900 <5.0	<400 <5.0	<400 <5.0	<400 <5.0	<400 <5.0	<400 <5.0	<400 <5.0	
02 10 620	11712007	20.0	٧.٠٧	<b>√</b> J.0	<b>\J.</b> 0	<b>√</b> J.⊍	~5.0	√3.0	₩.0	V.U.	<b>\</b> 3.0	٠.u	
SB-21@3	1/20/2004	3.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
SB-21@6	1/20/2004	6.0	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	
SB-21@9	1/20/2004	9.0	<200	<200	230	<200	<200	<200	<200	<200	<200	<200	
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Table 2. Soil Analytical Data: Volatile Organic Compounds - 1137-1167 65th Street, Oakland, California

						<b>-</b>							
Sample ID	Date Sampled	Depth	Age of the state o	, John Jane	Touring Touring	**************************************	Tenneth.	Cis. L. 2.17.	Trichlor.	Selling (C) (C) (C) (C)	12.20;	Menty and property	Pilaj.
Posidential non	-drinking water E	(ft)	180	9,300	4.700	1.500		ykg ——				<u> </u>	
	n-drinking water E		380	9,300	4,700 13,000	1,500 1,500	88 250	1,600	260	6.7	52	520	
Commercial, no	u-urinking water	ESL	360	9,300	13,000	1,500	230	3,600	730	19	150	1,500	
SB-22@3.0	1/7/2004	3.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
SB-22@6.0	1/7/2004	6.0	<200	<200	<200	670	<400	<400	<400	<400	<400	<400	
SB-22@9.0	1/7/2004	9.0	<200	<200	<200	770	<100	<100	<100	<100	<100	<100	
												1200	
SB-23@3	1/6/2004	3.0	<5.0	<5.0	< 5.0	<5.0	13	<5.0	<5.0	< 5.0	<5.0	<5.0	
SB-23@6	1/6/2004	6.0	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	
SB-23@9	1/6/2004	9.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	<5.0	< 5.0	<5.0	<5.0	
SB-24@3	1/5/2004	3.0	<500	<500	<500	<500	<400	<400	<400	<400	<400	<400	
SB-24@6	1/5/2004	6.0	<200	<200	240	<200	<400	<400	<400	<400	<400	<400	
SB-24@9	1/5/2004	9.0	<50	<50	<50	<50	<50	<50	<50	<50	<50	< 50	
SB-26@7.5	1/7/2004	7.5	<200	<200	<200	<200	<100	<100	<100	<100	<100	<100	
SB-26@11.5	1/7/2004	11.5	<200	<200	<200	330	<50	<50	<50	<50	<50	<50	
D													
Previous Cambr SB-1-3.5		2.5	<5.0	27	16	100	- 4.4						
SB-1-3.5 SB-1-7.5	11/25/2002 11/25/2002	3.5 7.5	<5.0 <5.0	37 <5.0	16 <5.0	120	44	<5.0	<5.0	<5.0	<5.0	<5.0	
SB-1-7.5 SB-2-3.5	11/25/2002	7.5 3.5	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0	<5.0	<5.0	<5.0	
SB-2-11.5	11/25/2002	11.5	<5.0	<5.0	<5.0	<5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0	<5.0	
SB-3-7.5	11/25/2002	7.5	<100	<100	<100	<100	<100	<100	<100	<100	<5.0 <100	<5.0 <100	
SB-3-11.5	11/25/2002	11.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
SB-4-3.5	11/25/2002	3.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0 <5.0	<5.0	<5.0	<5.0 <5.0	<5.0 <5.0	
SB-4-7.5	11/25/2002	7.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
SB-4-11.5	11/25/2002	11.5	<5.0	<5.0	7.4	11	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
SB-5-7.5	11/25/2002	7.5	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	
SB-5-11.5	11/25/2002	11.5	<5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
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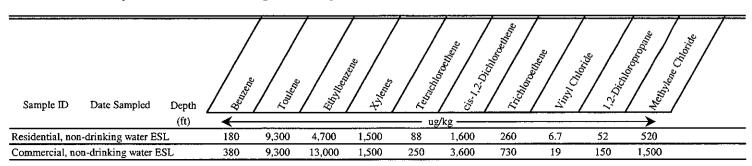
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Table 2. Soil Analytical Data: Volatile Organic Compounds - 1137-1167 65th Street, Oakland, California

						,					_		
Sample ID	Date Sampled	Depth (ft)	Agoneone Bonneone	Toureng	Elipinon,	Silvenes,		Akg —	Tricinor	and the second s	100 monie	Weigher.	Julius Silving
Residential, non-	drinking water Es		180	9,300	4,700	1,500	88	1,600	260	6.7	52	520	
Commercial, non			380	9,300	13,000	1,500	250	3,600	730	19	150	1,500	
					·			·					<del></del>
SB-7-3.5	11/25/2002	3.5	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	
SB-7-7.5	11/25/2002	7.5	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	
SB-7-17.5	11/25/2002	17.5	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	
SB-8-3	11/25/2002	3.0	<500	< 500	< 500	< 500	< 500	< 500	< 500	<500	<500	<500	
SB-8-6	11/25/2002	6.0	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	
SB-8-9	11/25/2002	9.0	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	
SB-9-6	11/25/2002	6.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
SB-9-9	11/25/2002	9.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
SB-10-3	11/25/2002	3.0	<5.0	<5.0	< 5.0	<5.0	56	<5.0	<5.0	<5.0	<5.0	< 5.0	
SB-10-6	11/25/2002	6.0	< 50	<50	<50	<50	<50	<50	<50	<50	<50	<50	
SB-10-9	11/25/2002	9.0	<500	< 500	< 500	<500	< 500	< 500	< 500	< 500	< 500	< 500	
SB-10-12	11/25/2002	12.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	<5.0	< 5.0	18	<5.0	<5.0	
SB-11-7.5	11/25/2002	7.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Previous SCI Sar	mples												
Tank 1 Bottom	2/25/2002		<130	<130	<130	<130	<130	<130	<130	<130	<130	<130	
Tank 2 Bottom	2/25/2002		<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	
Tank 3 Bottom	2/25/2002		<250	<250	<250	<250	310	<250	<250	<250	<250	<250	
Tank 4 Bottom	2/25/2002		<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	
E End @ 6'	2/25/2002	6.0	<250	<250	<250	950	<250	<250	<250	<250	<250	<250	
W End @ 6'	2/25/2002	6.0	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	
Pipe #1	2/25/2002		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	
Pipe #2	2/25/2002		<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	
Tank 5 E End	3/7/2002		<2,000	<2,000	8,600	<2,000	<2,000	<2,000	<2,000	<2,000	<2,000	<2,000	
Tank 5 W End	3/7/2002		<1,700	<1,700	5,900	<1,700	<1,700	<1,700	<1,700	<1,700	<1,700	<1,700	
Tank 6 N Wall	3/7/2002	2.0	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	
Tank 6 S Wall	3/7/2002	5.0	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	
Tank 6 E End	3/7/2002		<420	<420	<420	<420	<420	<420	<420	<420	<420	<420	
Tank 6 W End	3/7/2002		<3,100	<3,100	<3,100	<3,100	<3,100	<3,100	<3,100	<3,100	<3,100	<3,100	

Table 2. Soil Analytical Data: Volatile Organic Compounds - 1137-1167 65th Street, Oakland, California



#### Abbreviations and Methods:

Bold values represent concentrations above the commericial ESL.

ug/kg = Micrograms per kilogram, equivalent to parts per billion (ppb)

Volatile organic compounds by EPA Method 8260B

< n = Chemical not present at a concentration in excess of detection limit shown

ND = None detected above laboratory reporting limit, see laboratory report for individual reporting limits.

Residential ESL = Table B - Environmental Screening Levels Shallow Soils <3 meters (Groundwater is not a Current

or Potential Source of Drinking Water) established by the SFBRWOCB, Interim Final July 2003.

Commercial ESL = Table B - Environmental Screening Levels Shallow Soils <3 meters (Groundwater is not a Current

or Potential Source of Drinking Water) established by the SFBRWQCB, Interim Final July 2003.

(160,000) = No RBSL published for component. The value presented is from EPA's Preliminary Remediation Goals (PRG), 2000.

Table 3. Groundwater Analytical and Elevation Data: Petroleum Hydrocarbons - 1137-1167 65th Street, Oakland, California

Boring ID TOC	Date Sampled	Groundwater Elevation (ft)/	Depth to Water	TPHmo	ТРНа	TPHss	ТРНg	Notes
(ft*)	Sampled	Screen Interval	(ft)	4		/L		Hotes
U1 )		(ft bgs)	(11)		ag	yL		
ESL - Potential D	rinking Water So			100	100	100	100	
ESL - Not a Poter	ntial Drinking Wa	ter Source		640	640	500	500	
Current Cambria	Samples							
SB-12A	1/13/2004	8 to 13	4.5	300	130	<50	230	h,c,e,d,f
SB-14A	1/9/2004	2 to 7	4.0	<250	<50	<50	<50	c
SB-14C	1/9/2004	30.5 to 35.5	NW					
SB-15A	1/12/2004	8 to 13	4.0	290	2,400	2,500	2,700	a,c,d
SB-16A	1/12/2004	8 to 13	4.0	9,800	23,000	1,500	1,700	a,b,c,d,e,i
SB-17A	1/13/2004	8 to 13	NW	, <del></del>				
SB-17B	1/8/2004	17 to 22	16.5	<250	95	<50	120	c,d,f,g
SB-17C	1/13/2004	29 to 34	NW					
SB-18A	1/6/2004	7 to 12	1.5	<2,500	11,000	2,100	3,900	d,b
SB-18B**	1/9/2004	26 to 31	25.0	<250	92	<50	250	g,h
SB-18C	1/9/2004	35 to 40	34.0		-	170	300	c,g,h
SB-19A	1/13/2004	14 to 19	NW		<b>w-0</b> 0.	***		
SB-20A	1/13/2004	8 to 13	8.0	<250	1,400	610	680	b,d,j
SB-20C	1/13/2004	29 to 34	31.0	<250	<50	<50	<50	С
SB-21A	1/20/2004	4.5 to 9.5	8.5	<25,000	110,000	5,600	6,100	a,b,i,k
SB-22A	1/7/2004	5 to 10	NW					
SB-22C	1/7/2004	41 to 46*		<250	110	<50	<50	c,f
SB-25A	1/8/2004	5 to 10	5.0	<250	64	<50	<50	c,f,g
SB-25C	1/8/2004	29 to 34	29.0	<250	<50	<50	<50	c

Table 3. Groundwater Analytical and Elevation Data: Petroleum Hydrocarbons - 1137-1167 65th Street, Oakland, California

Boring ID	Date	Groundwater	Depth					
TOC	Sampled	Elevation (ft)/	to Water	TPHmo	TPHd	TPHss	TPHg	Notes
(ft*)		Screen Interval	(ft)	<del></del>	ug.	/L <del></del>	<b></b>	
		(ft bgs)						
	Drinking Water So			100	100	100	100	
SL - Not a Pote	ntial Drinking Wa	ter Source		640	640	500	500	
SB-26A	1/7/2004	8 to 13	4.0	1,000	5,300	2,600	3,000	c,d,e
revious Cambri	ia Samples							
SB-1	11/25/2002	35.39	3.45			****		
(38.84)	11/26/2002	35.44	3.40	7,500	2,000	<50	58	
SB-2	11/25/2002	11.61	29.50	***				
				<250	<50	<50	<50	
(41.11)	11/26/2002	29.46	11.65	<b>\230</b>	<u> </u>	~J0	<b>&gt;</b> 0	
SB-4	11/25/2002	34.02	6.90		474			
(40.92)	11/26/2002	34.82	6.10				<del></del>	SPH
SB-6	11/25/2002	28.24	11.25		***			
(39.49)	11/26/2002	32.19	7.30	620	23,000	7,800	8,700a,b,c	
SB-7	11/25/2002	28.20	10.30					
(38.50)	11/26/2002	30.10	8.40	<25,000	120,000	5,800	6,100a,b,c	
SB-8	11/25/2002	36.30	4.70					
(41.00)	11/26/2002	36.55	4.65	<250,000	1,200,000	100,000	110,000a,b,c	
SB-9	11/25/2002	16.02	25.00					
(41.02)	11/26/2002	17.07	23.95	300	50	<50	<50c	
SB-10	11/25/2002	29.27	11.60					
(40.87)	11/26/2002	31.12	9.75	<250	350	200	260a,c	
, ,								
SB-11	11/25/2002	12.15	29.30					
(41.45)	11/26/2002	19.55	21.90	<250	<50	<50	<50	

Table 3. Groundwater Analytical and Elevation Data: Petroleum Hydrocarbons - 1137-1167 65th Street, Oakland, California

								<del> </del>
Boring ID TOC	Date Sampled	Groundwater Elevation (ft)/	Depth to Water	TPHmo	TPHd	TPHss	ТРНg	Notes
(ft*)		Screen Interval	(ft)	<b>←</b>	u	g/L	<del></del>	
		(ft bgs)						
ESL - Potential D	rinking Water So	urce		100	100	100	100	
ESL - Not a Poter	itial Drinking Wa	iter Source		640	640	500	500	
Previous SCI San	ıples				"			
Interior	2/20/2002				94,000	13,000	21,000	
Exterior	2/25/2002				82,000	42,000	66,000	

#### Abbreviations:

Bold values represent concentrations above the non-drinking water ESL.

TOC Elev. (ft) = Top of casing elevation in feet above mean sea level

ug/L = micrograms per liter = parts per billion = ppb

TPHmo = Total petroleum hydrocarbons as motor oil by EPA Method 8015C with silica gel cleanup

TPHd = Total petroleum hydrocarbons as diesel by EPA Method 8015C with silica gel cleanup

TPHss = Total petroleum hydrocarbons as Stoddard solvent by EPA Method 8021B/8015Cm

TPHg = Total petroleum hydrocarbons as gasoline by EPA Method 8021B/8015Cm

TPHnap = Total petroleum hydrocarbons as naphtha by EPA Method 8015m/8020

ND = None detected above laboratory reporting limit, see laboratory report for individual reporting limits.

--- = Not available, not analyzed, or does not apply.

< n = Chemical not present at a concentration in excess of detection limit shown.

SPH = Separate phase hydrocarbons detected in well; no groundwater collected.

#### Notes:

- \* = Grab groundwater sample was collected without protection against cross contamination between groundwater zones; sample may not be discrete.
- \*\* = Sample SB-18B collected in the C-zone
- a = Laboratory note: TPH pattern that does not appear to be derived from gasoline (Stoddard solvent/mineral spirit?)
- b = Laboratory note: lighter than water immiscible sheen/product is present
- c = Laboratory note: liquid sample that contains greater than ~2 vol. % sediment
- d = Laboratory note: gasoline range compounds are significant
- e = Laboratory note: oil range compounds are significant
- f = Laboratory note: diesel range compounds are significant; no recognizable pattern
- g = Laboratory note: one to a few isolated non-target peaks present
- h = Laboratory note: unmodified or weakly modified gasoline is significant
- i = Laboratory note: sample diluted due to high organic content
- j = Laboratory note: strongly aged gasoline or diesel range compounds are significant
- k = Laboratory note: stoddard solvent/mineral spirit

Table 3. Groundwater Analytical and Elevation Data: Petroleum Hydrocarbons - 1137-1167 65th Street, Oakland, California

Boring ID TOC	Date Sampled	Groundwater Elevation (ft)/	Depth to Water	TPHmo	TPHd	TPHss	ТРНд	Notes
(ft*)		Screen Interval	(ft)	<del></del>	սջ	g/L	<del></del>	
		(ft bgs)						
SL - Potential D	inking Water Sc	ource		100	100	100	100	
	tial Drinking Wa			640	640	500	500	

ESL - Potential Drinking Water Source = Table A - Environmental Screening Levels (Groundwater is a Current or Potential Source of Drinking Water) established by the SFBRWQCB, Interim Final July 2003.

ESL - Not A Potential Drinking Water Source = Table B - Environmental Screening Levels (Groundwater is not a Current or Potential Source of Drinking Water) established by the SFBRWQCB, Interim Final July 2003.

Table 4. Groundwater Analytical and Elevation Data: Volatile Organic Compounds - 1137-1167 65th Street, Oakland, Calif.

				/		$\overline{}$	/		//	/ thene	/ /	/ /	/ <sub>style</sub> /	ige /
Boring ID (TOC)	Date Sampled	Screen Interval / Groundwater Elevation	Depth to Water	Benzene	Towner	EllyMones	Thenes	<sup>Zetrach</sup> los	cis.1.2.Dis.	Trichloro	on the second	'i-2-Dichi	Menymen C.	
(ft*)	Date Samples	(ft)	(ft)	<del></del>				—— ug/L					<del></del>	Notes
ESL - Potent	ial Drinking W		()	1.0	40	30	13	5.0	6.0	5.0	0.5	5.0	5.0	<u></u>
ESL - Not a	Potential Drink	ing Water Source	e	46	130	290	13	120	590	360	4.0	100	2,200	
Current Can	nbria Samples							0.5	-0 E	<0.5	<0.5	<0.5	<0.5	
SB-12A	1/13/2004	8 to 13	4.5	<0.5	2.0	<0.5	<0.5	<0.5	<0.5	₹0.5	~0.3	~0.5	-0.5	
				0.50	-0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
SB-14A	1/9/2004	2 to 7	4.0	0.58	<0.5		<b>~U.</b> J			~				
SB-14C	1/9/2004	30.5 to 35.5	NW											
		0 73	4.0	-0.5	<0.5	<0.5	17	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
SB-15A	1/12/2004	8 to 13	4.0	<0.5	<0.5	<b>~0.</b> 5	1,	70.5	10-0	•				
an	1,44,000	0 4 12	4.0	0.65	0.51	1.3	7.7	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
SB-16A	1/12/2004	8 to 13	4.0	0.03	0.51	1.5								
SB-17A	1/13/2004	8 to 13	NW											
SB-17A SB-17B	1/8/2004	17 to 22	16.5	< 0.5	< 0.5	< 0.5	< 0.5	<50	1,100	<50	<50	<50	<50	
SB-17E	1/13/2004	29 to 34	NW						<b></b>					
SB-17€	1/13/2004	27 10 27	4.77											
SB-18A	1/6/2004	7 to 12	1.5	<5.0	<5.0	<5.0	11	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
SB-18B**		26 to 31	25.0	0.54	< 0.5	<0.5	0.64	630	1,800	430	<100	<100	<100	
SB-18D	1/9/2004	35 to 40	34.0	0.82	< 0.5	< 0.5	1.3	300	1,200	250	< 50	<50	<50	
DD-10C	1/ // 2004													
SB-19A	1/13/2004	14 to 19	NW											
52 X7.1	2, 20, 200	**												
SB-20A	1/13/2004	8 to 13	8.0	< 0.5	<0.5	< 0.5	3.3	< 0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	
SB-20C	1/13/2004	29 to 34	31.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	
02 200														
SB-21A	1/20/2004	4.5 to 9.5	8.5	<5.0	< 5.0	<5.0	<5.0	<50	<50	<50	<50	<50	<50	
SB-22A	1/7/2004	5 to 10	NW										2.2	
SB-22C		41 to 46*		< 0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	

Table 4. Groundwater Analytical and Elevation Data: Volatile Organic Compounds - 1137-1167 65th Street, Oakland, Calif.

Boring ID		Screen Interval / Groundwater	Depth to	Bering A	Towner	Elly Warren	sir	l'emono.	is-12Di	Trichlora	Viny Cile	, spiro (27, 1)	Meny lene Chi	, pila;
(TOC)	Date Sampled	Elevation	Water		<u> </u>	Z	<u> </u>	~ /	<u> </u>	~ /			<u>→</u>	Notes
(ft*)		(ft)	(ft)	<u> </u>	40	30	13	— ug/L 5.0	6.0	5.0	0.5	5.0	5.0	
SL - Potent	tial Drinking Wa	ter Source		1.0	130	290	13	120	590	360	4.0	100	2,200	
SL - Not a	Potential Drinkii	ng Water Source	ce	46	130	290	13	120	370					
			<b></b>	-0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	
SB-25A	1/8/2004	5 to 10	5.0	<0.5			<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5	
SB-25C	1/8/2004	29 to 34	29.0	< 0.5	<0.5	<0.5	<0.5	<0.5	<b>CO.</b> 3	<b>~0.</b> 5	20.5	4010		
SB-26A	1/7/2004	8 to 13	4.0	6.2	<5.0	<5.0	13	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Previous Co	ambria Samples													
SB-1	11/25/2002	35.39	3.45											a h a
(38.84)	11/26/2002	35.44	3.40	1.7	3.2	0.55	3.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	a,b,c
SB-2	11/25/2002	11.61	29.50											
(41.11)	11/26/2002	29.46	11.65	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
am. 1	1110010000	34.02	6.90											
SB-4	11/25/2002													SPH
(40.92)	11/26/2002	34.82	6.10											
SB-6	11/25/2002	28.24	11.25											
(39.49)	11/26/2002	32.19	7.30	2.1	1.2	< 0.5	0.55	< 0.5	1.2	<0.5	0.90	<0.5	<0.5	d,e,f,g
		20.22	10.20											
SB-7	11/25/2002	28.20	10.30	-0.5	0.74	<0.5	3	<0.5	< 0.5	<0.5	1.3	< 0.5	< 0.5	i,j,k,l,m
(38.50)	11/26/2002	30.10	8.40	<0.5	0.74	<0.5	J	~0.5	~0.2	10.5				-9-
SB-8	11/25/2002	36.30	4.70										 -10	2
(41.00)	11/26/2002	36.55	4.65	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	o
SB-9	11/25/2002	16.02	25.00											
		17.07	23.95	<0.5	0.88	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	
(41.02)	11/26/2002	17.07	43.73	~0.5	V. <b>U</b> U									

Table 4. Groundwater Analytical and Elevation Data: Volatile Organic Compounds - 1137-1167 65th Street, Oakland, Calif.

Boring ID		Screen Interval / Groundwater Elevation	Depth to Water	Benzene	Tomene	Chiymonia.	ous, some	iemonio.	, selling.	Tricilloro	on the second	1,2.20 jess.	Meny lene C.	9:161:
	Date Sampled		(ft)					ug/L					<del></del>	Notes
(ft*)	170 1 1 1 1 177	(ft)	(11)	1.0	40	30	13	5.0	6.0	5.0	0.5	5.0	5.0	
	al Drinking Wa Potential Drinki		·e	46	130	290	13	120	590	360	4.0	100	2,200	
		29.27	11.60											
SB-10 (40.87)	11/25/2002 11/26/2002	31.12	9.75	<2.5	3.4	<2.5	<2.5	<2.5	170	<2.5	45	<2.5	<2.5	p,q
SB-11	11/25/2002	12.15	29.30											
(41.45)	11/26/2002	19.55	21.90	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	t
Trip Blank	11/26/2002			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Previous SC	-			45	.e n	0.4	114	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Interior Exterior	2/20/2002 2/20/2002			<b>47</b> <7.1	<5.0 <7.1	9.4 <7.1	24	83	9.6	<7.1	<7.1	<7.1	<7.1	

### Abbreviations:

TOC Elev. (ft) = Top of casing elevation in feet above mean sea level ug/L = micrograms per liter = parts per billion = ppb

Volatile organic compounds by EPA Method 8260B

- --- = Not available, not analyzed, or does not apply
- < n = Chemical not present at a concentration in excess of detection limit shown
- \* = Grab groundwater sample was collected without protection against cross contamination between groundwater zones; may not be discrete.
- \*\* = Sample 18B collected in the C-zone

Bold values represent concentrations above the non-drinking water ESL.

#### Notes:

- a = Carbon Disulfide: 0.64 ug/L
- a = 2-Hexanone: 0.58 ug/L
- b = Methyl tertiary-butyl ether (MTBE): 5.1 ug/L 1= trans-1,2-Dichloroethene: 0.99 ug/L
- d = tert-Butylbenzene: 4.6 ug/L
- e = Chloroethane: 3.8 ug/L
- f = 1,1-Dichloroethene: 1.4 ug/L
- g = trans-1,2-Dichloroethene: 2.6 ug/L
- i = tert-Butylbenzene: 7.3 ug/L

- j = Chloroethane: 16 ug/L
- k = 1,1-Dichloroethene: 1.7 ug/L
- m = 1,1,2,2-Tetrachloroethane: 16 ug/L
- o = 1,2-Dichlorobenzene: 20 ug/L
- p = 1,1-Dichloroethene: 19 ug/L
- q = trans-1,2-Dichloroethene: 3.9 ug/L
- t = Methyl tertiary-butyl ether (MTBE): 3.9 ug/L
- ESL Potential Drinking Water Source = Table A Environmental Screening Levels (Groundwater is a Current or Potential Source Drinking Water) established by the SFBRWQCB, Interim Final July 2003.
- ESL Not A Potential Drinking Water Source = Table B Environmental Screening Levels (Groundwater is not a Current or Potential Source of Drinking Water)

Table 4. Groundwater Analytical and Elevation Data: Volatile Organic Compounds - 1137-1167 65th Street, Oakland, Calif.

able 4. Groundwate			/	/ /	7			/	loemene	/	/	all	**************************************
Boring ID	Screen Interval / Groundwater Elevation	Depth to Water	Benzene	Toulene	EllyMenzen	<sup>45</sup> 71enes	Tennein.	cis-1.2.p.	Trichlor	Viny C.	1,2.Dicy.	The moon	Notes
(TOC) Date Sampled (ft*)	(ft)	(ft)	<del>-</del>				— ug/L 5.0	6.0	5.0	0.5	5.0	5.0	Notes
SL - Potential Drinking Wat	er Source		1.0	40	30	13	120	590	360	4.0	100	2,200	
SI - Not a Potential Drinkin	g Water Source	:е	46	130	290	13	120_						

established by the SFBRWQCB, Interim Final July 2003.

Appendix A
Boring Logs



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# DRAFT

### **BORING/WELL LOG**

CLIENT NAME _	John Nady	BORING/WELL NAME SB-12A
IOB/SITE NAME	65th Street	DRILLING STARTED 12-Jan-04
OCATION _	1137-1167 65th Street, Oakland, California	DRILLING COMPLETED 13-Jan-04
PROJECT NUMBER	522-1000	WELL DEVELOPMENT DATE (YIELD) NA
ORILLER	Precision	GROUND SURFACE ELEVATION NA
RILLING METHOD _	Hydraulic push, Truck mounted Envirocore	TOP OF CASING ELEVATION NA
ORING DIAMETER _	2.5 inches	SCREENED INTERVAL NA
OGGED BY	M. Meyers	DEPTH TO WATER (First Encountered) 4.5 ft (12-Jan-04)
REVIEWED BY	R. Clark-Riddell, PE# 49629	_ DEPTH TO WATER (Static) NA

**REMARKS** Located in Peabody Ln. near SE corner of property. Temp casing w 5 ft of screen (8 to 13 ft bgs) installed to collect GW samples CONTACT DEPTH (ft bgs) GRAPHIC LOG TPHg (ppm) U.S.C.S. PID (ppm) DEPTH (ft bgs) BLOW **EXTENT** SAMPLE 1 LITHOLOGIC DESCRIPTION WELL DIAGRAM 0.3

ASPHALT: 3 inches thick.

Clayey SILT (ML): dark brown; stiff; moist; 30% clay,
60% silt, 10% fine to coarse grained sand; low plasticity; low estimated permeability. ML  $\nabla$ @ 4': becomes olive gray; wet; 30% clay, 70% silt; medium plasticity; slight odor. 3.0 Portland Type 7.0 Gravelly Sandy SILT (ML): olive gray and light brown; very stiff; moist; 60% silt, 20% fine to very coarse grained sand, 20% angular gravel to 20mm in diameter; low I/II Cement 5.4 ML plasticity; moderate estimated permeability; mottled. 10.0 Sandy SILT (ML): light brown; very stiff; moist; 10% 7.6 clay, 60% silt, 30% fine to coarse grained sand; low ML plasticity; moderate estimated permeability. 13.0 Bottom of Boring @ 13 ft WELL LOG (PID/TPHG) H:\MADY\NADY.GPJ DEFAULT.GDT 2/23/04 PAGE 1 OF



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### **BORING/WELL LOG**

DRAFT

			05.40		
CLIENT NAME _	John Nady	BORING/WELL NAME	SB-13		
IOB/SITE NAME	65th Street	DRILLING STARTED _	05-Jan-04		
OCATION _	1137-1167 65th Street, Oakland, California	DRILLING COMPLETED	05-Jan-04	· · · · · · · · · · · · · · · · · · ·	
ROJECT NUMBER _	522-1000	WELL DEVELOPMENT DA	ATE (YIELD)	NA	
DRILLER _	Precision	GROUND SURFACE ELEV	VATION	NA	
ORILLING METHOD _	Hydraulic push, limited access Envirocore	TOP OF CASING ELEVAT	TON NA		
BORING DIAMETER _	2 3/8 inches	SCREENED INTERVAL	NA		
OGGED BY	M. Meyers	DEPTH TO WATER (First	Encountered)	NA	$\nabla$
REVIEWED BY	R. Clark-Riddell, PE# 49629	DEPTH TO WATER (Statio	c)	NA	
DESSADIVE.	I contact and the invite of cults be all the contact of				

REVIEWED BY R. Clark-Riddell, PE# 49629	DEPTH TO WATER (Static)	N/	<u> </u>
REMARKS Located onsite inside studio building	g near center of property, no GW encountered.	<del></del>	,
PID (ppm) TPHg (ppm) BLOW COUNTS SAMPLE ID EXTENT DEPTH (ft bgs) U.S.C.S. GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
SB-13	CRETE: 3 inches thick.  SAND (SM): gray; medium dense; damp; 30% silt, very fine to fine grained sand; high estimated eability. odor encountered.  gravel size concrete fragments to 35mm in diameter untered.  SILT (MH): blue gray; medium stiff; moist; 40% 60% silt; high plasticity; low estimated permeability.  SILT (MH): blue gray; medium stiff; moist; 40% 60% silt; high plasticity; low estimated permeability.  SILT (MH): blue gray; medium stiff; moist; 40% 60% silt; high plasticity; low estimated permeability.  SILT (MH): blue gray; medium stiff; moist; 40% fine grained sand; 30% silt, 40% fine ged sand; medium estimated permeability; mottled.  Decomes predominantly orange brown; 15% clay, silt, 60% fine grained sand, 5% gravel to 20mm in eter; high estimated permeability.	5.0 7.0	Portland Typ I/II Cement  Bottom of Boring @ 12 f



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### **BORING/WELL LOG**

## DRAFT

CLIENT NAME _	John Nady	BORING/WELL NAME SB-14A/C	
JOB/SITE NAME _	65th Street	DRILLING STARTED 09-Jan-04	
LOCATION	1137-1167 65th Street, Oakland, California	DRILLING COMPLETED 09-Jan-04	
PROJECT NUMBER	522-1000	WELL DEVELOPMENT DATE (YIELD) NA	
DRILLER _	Precision	GROUND SURFACE ELEVATION NA	
DRILLING METHOD _	Hydraulic push, track mounted Envirocore	TOP OF CASING ELEVATION NA	
BORING DIAMETER	2 3/8 inches	SCREENED INTERVAL NA	
LOGGED BY	M. Meyers	DEPTH TO WATER (First Encountered) 4.0 ft (09-Jan-04)	$\sqrt{\sum}$
REVIEWED BY	R. Clark-Riddell, PE# 49629	DEPTH TO WATER (Static) NA	<u> </u>
			_

Located in Peabody Lane near former pump location. No GW in C-zone. A-zone GW sample collected from above 5 ft bgs, C-zoi REMARKS CONTACT DEPTH (ft bgs) GRAPHIC LOG TPHg (ppm) DEPTH (ft bgs) USCS PID (ppm) BLOW COUNTS EXTENT SAMPLE LITHOLOGIC DESCRIPTION WELL DIAGRAM CONCRETE: 3 inches thick.
Sandy SILT (ML): dark brown; stiff; moist; 10% clay, 0.3 60% silt, 30% fine to medium grained sand; low plasticity; ML medium estimated permeability. 3.0 Clayey SILT (ML): light brown; stiff; moist; 15% clay, 80% silt, 5% fine grained sand; low plasticity; low  $\nabla$ ML estimated permeability. 5.0 @ 4': becomes wet. 6 Sandy SILT (ML): gray; stiff; moist; 10% clay, 55% silt, 30% fine to very coarse grained sand, 5% gravel to 10mm in diameter; low plasticity; moderate estimated SB-14 210 permeability; mottled. 72 @7.5 @ 7': becomes green gray; medium stiff; wet; 70% silt, 30% fine to medium grained sand. @ 10': becomes stiff; moist; 60% silt, 30% very coarse grained sand, 10% well rounded gravel to 20mm in SB-14 <1.0 diameter; some shell fragments. @11.5 21 @ 11': becomes light brown; damp; 50% silt, 30% fine to very coarse grained sand, 20% subrounded gravel to 2 20mm in diameter; some shell fragments; mottled; FeO2 staining. @ 13': becomes very stiff. 0.7 Portland Type I/II Cement ML @ 19': becomes orange brown; stiff; moist; 55% silt, 40% fine grained sand, 5% well rounded gravel to 10mm in 1.5 diameter; some shell fragments. 0 DEFAULT.GDT 0.7 GP. @ 27': becomes 70% silt, 30% fine to very coarse grained WELL LOG (PID/TPHG) HANADYANADY @ 28': becomes light brown; 70% silt, 30% fine grained 2.2 sand: with less FeO2 staining. 30 0 32.0 Silty SAND (SM): orange brown; dense; moist; 40% silt, 60% fine grained sand; moderate estimated permeability. SM 34.0 Clayey SILT (ML): light brown; very stiff; damp; 30% 0 ML PAGE 1 OF Continued Next Page



LOCATION

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1137-1167 65th Street, Oakland, California

DRILLING COMPLETED 09-Jan-04

## **BORING/WELL LOG**

**CLIENT NAME** John Nady **BORING/WELL NAME** SB-14A/C JOB/SITE NAME 65th Street **DRILLING STARTED** 09-Jan-04

								Continued from Previous Page			
PID (ppm)	TPHg (ppm)	BLOW	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG		CONTACT DEPTH (ft bgs)	WE	LL DIAGRAM
	HAT	100 TB	SAM				- GR	clay, 70% silt; medium plasticity; low estimated permeability.  ② 35.5' Encountered drilling refusal.	103		Bottom of Boring @ 35.5 ft
WELL LOG (PID) I'PHG) HANADYNADY,GP3 DEFAULT,GD1 2/23/04											



**CLIENT NAME** 

LOCATION

DRILLER

**JOB/SITE NAME** 

PROJECT NUMBER

DRILLING METHOD

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Total Control of the	2 -			
John Nady	BORING/WELL NAME	SB-15A		
65th Street	DRILLING STARTED	12-Jan-04		
1137-1167 65th Street, Oakland, California	DRILLING COMPLETED _	12-Jan-04		<del></del>
522-1000	WELL DEVELOPMENT DA	TE (YIELD)	NA	
Precision	GROUND SURFACE ELEV	ATION	NA	
Hydraulic push, Truck mounted Envirocore	TOP OF CASING ELEVAT	ION NA		
2.5 inches	SCREENED INTERVAL	NA		
M. Meyers	DEPTH TO WATER (First	Encountered)	4.0 ft (12-Jan-04)	<u> </u>

BORING DIAMETER 2.5 inches		SCREENED INTERVAL NA			577
LOGGED BY M. Meyers		DEPTH TO WATER (First Encountered)		ft (12-Jan-0	94) <u>¥</u>
	Riddell, PE# 49629 on south side of Peabody Ln. Temp casing	DEPTH TO WATER (Static)	NA to colle		nloe
REMARKS Located o	on south side of Peabody Lif. Temp casing	w 5 it of screen (o to 15 it bgs) installed		PARKET SAIN	pies
PID (ppm) TPHg (ppm) BLOW COUNTS SAMPLE ID EXTENT DEPTH		OGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL	. DIAGRAM
31,500 SB-15 (@7.5) 100 SB-15 (@11.5) 100 SB-15	ML  ASPHALT: 4 inches th  Sandy SILT (ML): dark fine to very coarse gra diameter; low plasticity  @ 4': becomes wet.  Clayey SILT (ML): grec clay, 65% silt, 5% very low estimated permea Silty SAND (SM): blue fine grained sand; mod @ 8': becomes moist; gravel to 30mm in diar  Sandy SILT (ML): light 40% very coarse grain	enish gray; very stiff; wet; 30% ocarse grained sand, 10% gravel to 10mm in r; moderate estimated permeability.  Penish gray; very stiff; wet; 30% ocarse grained sand; low plasticity; bility.  gray; dense; wet; 30% silt, 70% derate estimated permeability; odor. 30% silt, 50% sand, 20% angular meter.  Person; very stiff; moist; 50% silt, ed sand, 10% well rounded gravel low plasticity; moderate estimated	5.0 6.0 10.0		Portland Type //II Cement  Bottom of Boring @ 13 ft
Ĭ <u></u>				***************	PAGE 1 OF 1

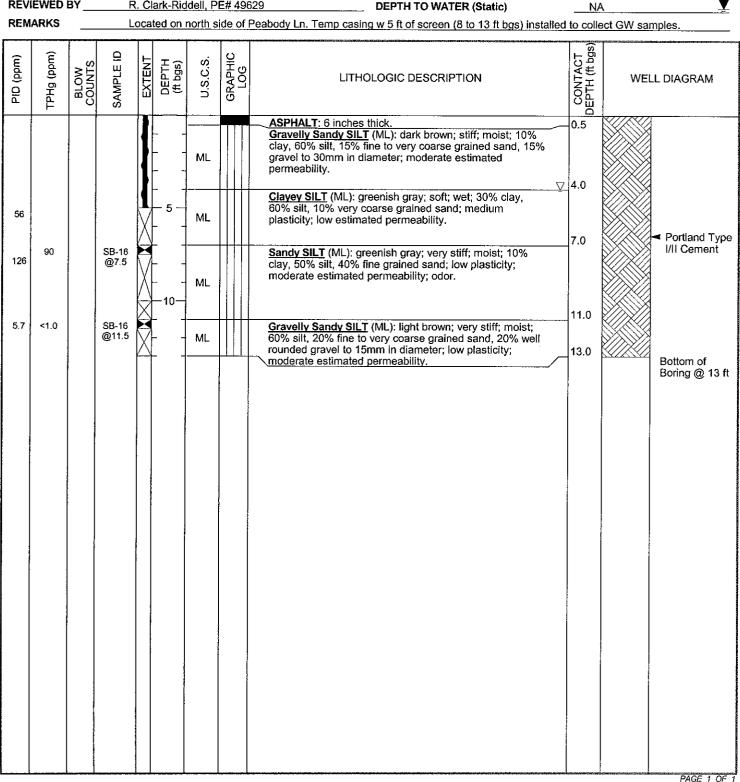


WELL LOG (PID/TPHG) HANADYANADY.GPJ DEFAULT.GDT 2/23/04

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# DRAFT

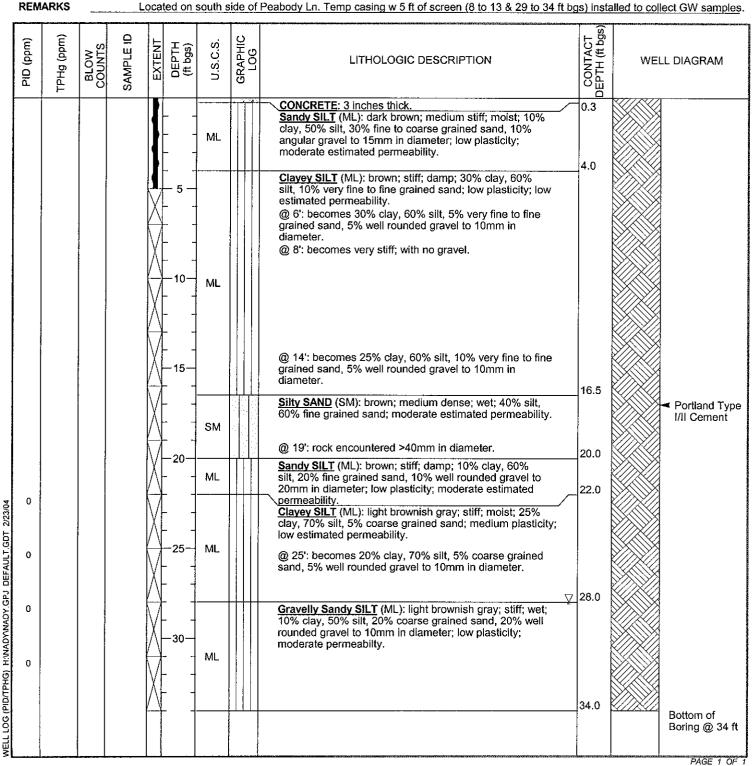
CLIENT NAME	John Nady	BORING/WELL NAME SB-16A		
JOB/SITE NAME	65th Street	DRILLING STARTED12-Jan-04		
LOCATION	1137-1167 65th Street, Oakland, California	DRILLING COMPLETED12-Jan-04		
PROJECT NUMBER	522-1000	WELL DEVELOPMENT DATE (YIELD)	NA	
DRILLER _	Precision	GROUND SURFACE ELEVATION	NA	
DRILLING METHOD _	Hydraulic push, Truck mounted Envirocore	TOP OF CASING ELEVATION NA		
BORING DIAMETER _	2.5 inches	SCREENED INTERVAL NA		
LOGGED BY	M. Meyers	DEPTH TO WATER (First Encountered)	4.0 ft (12-Jan-04)	$\overline{\nabla}$
REVIEWED BY	R. Clark-Riddell, PE# 49629	DEPTH TO WATER (Static)	NA	Ţ





# DRAFT

CLIENT NAME	John Nady	BORING/WELL NAME	SB-17A/C		
JOB/SITE NAME	65th Street	DRILLING STARTED	13-Jan-04		
LOCATION	1137-1167 65th Street, Oakland, California	DRILLING COMPLETED	13-Jan-04		
PROJECT NUMBER	522-1000	WELL DEVELOPMENT DAT	E (YIELD)_	NA	
DRILLER	Precision	GROUND SURFACE ELEVA	TION _	NA	
DRILLING METHOD	Hydraulic push, Truck mounted Envirocore	TOP OF CASING ELEVATIO	N NA		
BORING DIAMETER	2.5 inches	SCREENED INTERVAL	NA.		
LOGGED BY	M. Meyers	DEPTH TO WATER (First En	countered)	28.0 ft (13-Jan-04)	Ž
REVIEWED BY	R. Clark-Riddell, PE# 49629	DEPTH TO WATER (Static)		NA	<u> </u>





# DRAFT

CLIENT NAME	John Nady	BORING/WELL NAME SB	-17B		
JOB/SITE NAME	65th Street	DRILLING STARTED 08-	Jan-04		
LOCATION	1137-1167 65th Street, Oakland, California	DRILLING COMPLETED08-	Jan-04		
PROJECT NUMBER _	522-1000	WELL DEVELOPMENT DATE (	YIELD) <u></u>	NA	
DRILLER _	Precision	_ GROUND SURFACE ELEVATION	N	<b>NA</b>	
DRILLING METHOD _	Hydraulic push, track mounted Envirocore	TOP OF CASING ELEVATION _	NA		
BORING DIAMETER	2 3/8 inches	_ SCREENED INTERVAL	NA		
LOGGED BY	M. Meyers	DEPTH TO WATER (First Enco	untered) _	16.5 ft (08-Jan-04)	
REVIEWED BY	R. Clark-Riddell, PE# 49629	DEPTH TO WATER (Static)	-	8.5 ft (08-Jan-04)	7

REVI	EWED E ARKS	BY			rk-Rido ed on s			DEPTH TO WATER (Static) Peabody Ln. Temp casing w 5 ft of screen (17 to 22 ft bgs) inst		to col	n (υδ-Jan-i lect GW sa	
PID (ppm)	TPHg (ppm)	BLOW	SAMPLE 1D	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION		CONTACT DEPTH (ft bgs)	WELI	_ DIAGRAM
WELL LOG (PID/TPHG) HANADYNADY GPJ DEFAULT, GDT 223304	<1.0 <1.0 <1.0		SB-17 B@3.5 SB-17 B@11.5 SB-17 B@17.5 SB-17 B@20			ML SM		CONCRETE: 3 inches thick.  Sandy SILT (ML): dark brown; medium stiff; moist; 10% clay, 50% silt, 30% fine to coarse grained sand, 10% angular gravel to 15mm in diameter; low plasticity; moderate estimated permeability.  Clayey SILT (ML): brown; stiff; damp; 30% clay, 60% silt, 10% very fine to fine grained sand; low plasticity; low estimated permeability.  © 6': becomes 30% clay, 60% silt, 5% very fine to fine grained sand, 5% well rounded gravel to 10mm in diameter.  © 8': becomes very stiff; with no gravel.  © 14': becomes 25% clay, 60% silt, 10% very fine to fine grained sand, 5% well rounded gravel to 10mm in diameter.  Silty SAND (SM): brown; medium dense; wet; 40% silt, 60% fine grained sand; moderate estimated permeability.  © 19': rock encountered >40mm in diameter.  Sandy SILT (ML): brown; stiff; damp; 10% clay, 60% silt, 20% fine grained sand, 10% well rounded gravel to 20mm in diameter; low plasticity; moderate estimated permeability.	₹.	0.3 4.0 20.0 22.0		Portland Type I/II Cement  Bottom of Boring @ 22 ft
≤						J						PAGE 1 OF



## **BORING/WELL LOG**

## DRAFT

	<b></b>	<u> </u>			
CLIENT NAME _	John Nady	BORING/WELL NAME	SB-18A		
IOB/SITE NAME	65th Street	_ DRILLING STARTED _	06-Jan-04		
OCATION _	1137-1167 65th Street, Oakland, California	DRILLING COMPLETED	06-Jan-04		
PROJECT NUMBER _	522-1000	WELL DEVELOPMENT DA	ATE (YIELD)_	NA	
ORILLER _	Precision	_ GROUND SURFACE ELE	VATION _	NA	
PRILLING METHOD _	Hydraulic push, limited access Envirocore	TOP OF CASING ELEVAT	TON NA		
BORING DIAMETER _	2 3/8 inches	SCREENED INTERVAL	NA		
OGGED BY	M. Meyers	DEPTH TO WATER (First	Encountered)	1.5 ft (06-Jan-04)	$\nabla$
REVIEWED BY	R. Clark-Riddell, PE# 49629	_ DEPTH TO WATER (Statio	c)	NA NA	Ţ

REMARKS Located at SW corner of property. Temp casing w 5 ft of screen (7 to 12 ft bgs) installed to collect GW samples. CONTACT DEPTH (ft bgs) GRAPHIC LOG PID (ppm) SAMPLE ID TPHg (ppm) U.S.C.S. EXTENT DEPTH (ft bgs) BLOW COUNTS LITHOLOGIC DESCRIPTION WELL DIAGRAM Clayey SILT (ML): dark brown; soft; moist; 20% clay, 70% silt, 10% very fine grained sand; low plasticity; low estimated permeability.  $\nabla$ @ 1.5': becomes wet. ML <1.0 SB-18 0.0 @3.5 5.0 <u>Gravelly Silty SAND</u> (SM): blue gray; medium dense; moist; 30% silt, 50% very fine to coarse grained sand, 237 20% very angular to subrounded gravel to 30mm in SB-18 @7.5 diameter; moderate estimated permeability. 340 191 SM Portland Type I/II Cement SB-18 11.5 6.2 12.0 Clayey SILT (ML): yellowish orange and greenish gray; stiff; moist; 30% clay, 70% silt; low plasticity; low estimated permeability; mottled. ML 16.0 Sandy CLAY (CL): blue gray; very stiff; damp; 75% clay, 25% fine grained sand; medium plasticity; low estimated CL. 17.0 2,600 SB-18 654 @17 permeability. 20 Drilling refusal encountered. Bottom of Boring @ 20 ft WELL LOG (PID/TPHG) HANADY/NADY.GPJ DEFAULT.GDT 2/23/04 PAGE 1 OF



## **BORING/WELL LOG**

# DRAFT

LIENT NAME	John Nady	BORING/WELL NAME SB-18B/C
OB/SITE NAME	65th Street	DRILLING STARTED 09-Jan-04
OCATION	1137-1167 65th Street, Oakland, California	DRILLING COMPLETED 09-Jan-04
ROJECT NUMBER	522-1000	WELL DEVELOPMENT DATE (YIELD) NA
RILLER	Precision	GROUND SURFACE ELEVATION NA
RILLING METHOD	Hydraulic push, track mounted Envirocore	TOP OF CASING ELEVATION NA
ORING DIAMETER	2 3/8 inches	SCREENED INTERVAL NA NA
OGGED BY	M. Meyers	DEPTH TO WATER (First Encountered) 34.0 ft (09-Jan-04)
EVIEWED BY	R. Clark-Riddell, PE# 49629	DEPTH TO WATER (Static) 11.0 ft (09-Jan-04) ▼
EMADKS		aw 5 ft of screen (26 to 31 & 35 to 40 ft bgs) installed to collect GW samples.

CONTACT DEPTH (ft bgs) GRAPHIC LOG SAMPLE 1D PID (ppm) TPHg (ppm) U.S.C.S. BLOW COUNTS DEPTH (ft bgs) EXTENT WELL DIAGRAM LITHOLOGIC DESCRIPTION Refer to SB-18A for soil description from 0 to 17 ft bgs. 17.0 Sandy SILT (ML): blue gray; very stiff; damp; 60% silt, 30% fine to coarse grained sand, 10% gravel to 20mm in 1,000 SB-18 @17.5 diameter; low plasticity; moderate estimated permeability. ML 20.0 Portland Type I/II Cement <1.0 SB-18 Clayey SILT (ML): light brown; very stiff; damp; 30% clay, 70% silt; medium plasticity; low estimated @20.0 ML permeability. WELL LOG (PID/TPHG) HANADYANADY GPJ DEFAULT GDT 2/23/04 23.0 Sandy SILT (ML): light brown; stiff; damp; 10% clay, 60% silt, 30% fine grained sand; low plasticity; moderate estimated permeability. ML @ 25': becomes soft and moist. 26.0 Clayey SILT (ML): light brown; very stiff; damp; 30% clay, 70% silt; medium plasticity; low estimated ML permeability. 28.0 Sandy SILT (ML): light brown; stiff; damp; 80% silt, 20% fine grained sand; low plasticity; moderate estimated ML permeability. 31.0 Gravelly Sandy SILT (ML): light brown; very stiff; damp; 60% silt, 25% fine to very coarse grained sand, 15% well rounded gravel to 15mm in diametter; low plasticity; ML moderate estimated permeability. <u>⊽</u>|34.0 Gravelly Silty SAND (SM): light brown; dense; wet; 30% SM 35.0 PAGE 1 OF Continued Next Page



DRAFT

## **BORING/WELL LOG**

CLIENT NAME JOB/SITE NAME

John Nady 65th Street BORING/WELL NAME
DRILLING STARTED

SB-18B/C 09-Jan-04

LOCATION

1137-1167 65th Street, Oakland, California

DRILLING COMPLETED 09-Jan-04

				Continued from Previous Page
PID (ppm) TPHg (ppm) BLOW	SAMPLE ID EXTENT	DEPTH (ft bgs)	U.S.C.S.	LITHOLOGIC DESCRIPTION  CONTACT DEPTH (# pgs)
		40	SM S	silt, 50% medium grained sand, 20% well rounded gravel to 30mm; high estimated permeability.  Silty SAND (SM): light brown; medium dense; wet; 20% silt, 80% medium grained sand; high estimated permeability.  Clayey SILT (ML): light brown; stiff; moist; 30% clay, 65% silt, 5% well rounded gravel to 20mm in diameter; medium plasticity; low estimated permeability.  Silty SAND (SM): light brown; stiff; moist; 30% clay, 65% silt, 50% well rounded gravel to 20mm in diameter; medium grained sand; moderate estimated permeability.  Sandy SILT (ML): light brown; stiff; moist; 70% silt, 20% fine grained sand, 10% well rounded gravel to 10mm in diameter; low plasticity; moderate estimated permeability.



WELL LOG (PID/TPHG) H:MADY/NADY.GPJ DEFAULT.GDT 2/23/04

Cambria Environmental Technology, Inc. 5900 Hollis Street, Suite A Emeryville, California 94608 Telephone: (510) 420-0700 Fax: (510) 420-9170

## DRAFT

## **BORING/WELL LOG**

**CLIENT NAME** John Nady **BORING/WELL NAME** SB-19A JOB/SITE NAME 65th Street **DRILLING STARTED** 12-Jan-04 LOCATION DRILLING COMPLETED \_\_\_13-Jan-04 1137-1167 65th Street, Oakland, California **PROJECT NUMBER** 522-1000 WELL DEVELOPMENT DATE (YIELD) NA DRILLER Precision **GROUND SURFACE ELEVATION** NA **DRILLING METHOD** Hydraulic push, Truck mounted Envirocore TOP OF CASING ELEVATION NA BORING DIAMETER 2.5 inches SCREENED INTERVAL LOGGED BY M. Meyers **DEPTH TO WATER (First Encountered)** 9.0 ft (12-Jan-04) **REVIEWED BY** R. Clark-Riddell, PE# 49629 DEPTH TO WATER (Static) NΑ

ASPHALT: 6 inches thick.  Silty SAND (SM): medium brown; dense; moist; 10% clay, 30% silt, 50% fine to very coarse grained sand, 10% gravel to 10mm in diameter; moderate estimated permeability.  5.0  Clayey SILT (ML): olive gray; very stiff; moist; 40% clay, 60% silt; medium plasticity; low estimated permeability.  7.0  Gravelly Sandy SILT (ML): light brown; very stiff; moist; 10% clay, 45% silt, 30% fine to very coarse grained sand, 15% subrounded gravel to 30mm in diameter; low plasticity; moderate estimated permeability.	<u>_</u>
ASPHALT: 6 inches thick.  Silty SAND (SM): medium brown; dense; moist; 10% clay, 30% silt, 50% fine to very coarse grained sand, 10% gravel to 10mm in diameter; moderate estimated permeability.  5	
ASPHALT: 6 inches thick.  Silty SAND (SM): medium brown; dense; moist; 10% clay, 30% silt, 50% fine to very coarse grained sand, 10% gravel to 10mm in diameter; moderate estimated permeability.  5 ML Clayey SILT (ML): olive gray; very stiff; moist; 40% clay, 60% silt; medium plasticity; low estimated permeability.  7.0  Clayey SILT (ML): light brown; very stiff; moist; 10% clay, 45% silt, 30% fine to very coarse grained sand, 15% subrounded gravel to 30mm in diameter; low plasticity; moderate estimated permeability.  Gravelly Silty SAND (SM): light brown; dense; wet; 40% silt, 40% fine to very coarse grained sand, 20% subrounded gravel to 30mm in diameter; moderate estimated permeability.  Gravelly Sandy SILT (ML): light brown; very stiff; moist; 10% clay, 50% silt, 20% fine to very coarse grained sand, 20% angular gravel to 20mm in diameter; moderate estimated permeability.	DIAGRAM
O.7  Clayey SILT (ML): olive gray; very stiff; moist; 40% clay, 60% silt; medium plasticity; low estimated permeability.  7.0  Gravelly Sandy SILT (ML): light brown; very stiff; moist; 10% clay, 45% silt, 30% fine to very coarse grained sand, 15% subrounded gravel to 30mm in diameter; low plasticity; moderate estimated permeability.  Gravelly Silty SAND (SM): light brown; dense; wet; 40% silt, 40% fine to very coarse grained sand, 20% subrounded gravel to 30mm in diameter; moderate estimated permeability.  Gravelly Sandy SILT (ML): light brown; very stiff; moist; 10% clay, 50% silt, 20% fine to very coarse grained sand, 20% angular gravel to 20mm in diameter; moderate estimated permeability.	
O.7  ML  Gravelly Sandy SILT (ML): light brown; very stiff; moist; 10% clay, 45% silt, 30% fine to very coarse grained sand, 15% subrounded gravel to 30mm in diameter; low plasticity; moderate estimated permeability.  Gravelly Silty SAND (SM): light brown; dense; wet; 40% silt, 40% fine to very coarse grained sand, 20% subrounded gravel to 30mm in diameter; moderate estimated permeability.  Gravelly Sandy SILT (ML): light brown; very stiff; moist; 10% clay, 50% silt, 20% fine to very coarse grained sand, 20% angular gravel to 20mm in diameter; moderate estimated permeability.	
o.7    Description of the property of the property of the period of the	
estimated permeability.  Gravelly Sandy SILT (ML): light brown; very stiff; moist; 10% clay, 50% silt, 20% fine to very coarse grained sand, 20% angular gravel to 20mm in diameter; moderate estimated permeability.	Portland Type /II Cement
17.0	
Clayey SILT (ML): orange brown; very stiff; damp; 30% clay, 70% silt; low plasticity; low estimated permeability.	ottom of
	oring @ 19 ft



**CLIENT NAME** 

LOCATION

DRILLER

LOGGED BY

REVIEWED BY

**JOB/SITE NAME** 

**PROJECT NUMBER** 

DRILLING METHOD

BORING DIAMETER

Cambria Environmental Technology, Inc. 5900 Hollis Street, Suite A Emeryville, California 94608 Telephone: (510) 420-0700 Fax: (510) 420-9170

John Nady

65th Street

522-1000

Precision

2.5 inches

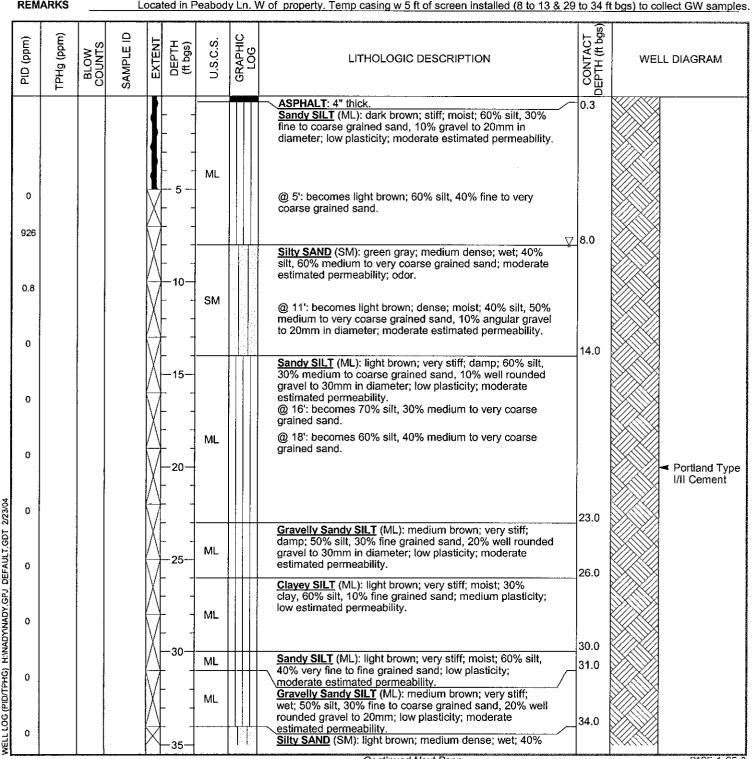
M. Meyers

R. Clark-Riddell, PE# 49629

### **BORING/WELL LOG**

SB-20A/C **BORING/WELL NAME** DRILLING STARTED \_\_ 13-Jan-04 DRILLING COMPLETED 13-Jan-04 1137-1167 65th Street, Oakland, California WELL DEVELOPMENT DATE (YIELD) NA **GROUND SURFACE ELEVATION** Hydraulic push, Truck mounted Envirocore TOP OF CASING ELEVATION NA SCREENED INTERVAL 8.0 ft (13-Jan-04) DEPTH TO WATER (First Encountered) **DEPTH TO WATER (Static)** NA

Located in Peabody Ln. W of property. Temp casing w 5 ft of screen installed (8 to 13 & 29 to 34 ft bgs) to collect GW samples. REMARKS





## **BORING/WELL LOG**



CLIENT NAME JOB/SITE NAME John Nady 65th Street BORING/WELL NAME
DRILLING STARTED

SB-20A/C

LOCATION

1137-1167 65th Street, Oakland, California

DRILLING STARTED 13-Jan-04
DRILLING COMPLETED 13-Jan-04

Continued from Previous Page

PID (ppm)	ТРНд (ррт)	BLOW	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG		CONTACT DEPTH (ft bgs)	WEI	L DIAGRAM
0	ндт	18 CO	SAN	3 X X	——————————————————————————————————————	SM	GF Control of the Con	silt, 60% very fine to fine grained sand; moderate estimated permeability.	1d 3d (0.0 d )		Bottom of Boring @ 40 ft
WELL LOG (PIDTPHG) HANADYNADY GPJ DEFAULT.GDT 222304	Language								An Antonio de Antonio		PAGE 2 OF 2





### **BORING/WELL LOG**

PAGE 1 OF

**CLIENT NAME** SB-21A John Nady **BORING/WELL NAME** JOB/SITE NAME 20-Jan-04 65th Street DRILLING STARTED DRILLING COMPLETED 20-Jan-04 LOCATION 1137-1167 65th Street, Oakland, California PROJECT NUMBER 522-1000 WELL DEVELOPMENT DATE (YIELD) NA NA DRILLER Precision **GROUND SURFACE ELEVATION** DRILLING METHOD Hand Auger TOP OF CASING ELEVATION NA BORING DIAMETER 3 inches SCREENED INTERVAL \_ LOGGED BY M. Meyers **DEPTH TO WATER (First Encountered)** 8.5 ft (20-Jan-04) R. Clark-Riddell, PE# 49629 REVIEWED BY **DEPTH TO WATER (Static)** NA

REMARKS Located inside building on west side of property. Temp casing w 5 ft of screen (4.5 to 9.5 ft bgs) installed to collect GW samples. CONTACT DEPTH (ft bgs) GRAPHIC LOG PID (ppm) TPHg (ppm) DEPTH (ft bgs) EXTENT U.S.C.S. BLOW COUNTS SAMPLE LITHOLOGIC DESCRIPTION WELL DIAGRAM CONCRETE: 4 inches thick.
Clayey SILT (ML): dark brown; stiff; moist; 30% clay, 2.2 0.3 1.5 60% silt, 10% angular gravel to 20mm in diameter; low plasticity; low estimated permeability. (@ 1': becomes mottled dark brown, gray, and light brown.

Sandy SILT (ML): dark brown; stiff; moist; 10% clay,
55% silt, 30% medium grained sand, 5% gravel to 10mm <1.0 SB-21 130 @3 Portland Type ML in diameter; low plasticity; moderate estimated permeability. I/II Cement 590 SB-21 @ 4': becomes green gray; with odor. 1092 @6 8.0 Gravelly Sandy SILT (ML): green gray; stiff; wet; 50% silt, 30% sand, 20% rounded gravel to 20mm in diameter; ML 470 SB-21 9.5 @9 low plasticity; moderate estimated permeability; strong Bottom of Boring @ 9.5 ft @ 9.5': Encountered refusal. WELL LOG (PID/TPHG) HANADYANADY.GPJ DEFAULT.GDT 2/23/04





### **BORING/WELL LOG**

PAGE 1 OF 2

**CLIENT NAME BORING/WELL NAME** John Nady SB-22A/C JOB/SITE NAME 65th Street **DRILLING STARTED** 07-Jan-04 1137-1167 65th Street, Oakland, California DRILLING COMPLETED 07-Jan-04 LOCATION PROJECT NUMBER 522-1000 WELL DEVELOPMENT DATE (YIELD) NA DRILLER Precision **GROUND SURFACE ELEVATION** NΑ DRILLING METHOD Hydraulic push, track mounted Envirocore TOP OF CASING ELEVATION NA **BORING DIAMETER** 2 3/8 inches SCREENED INTERVAL LOGGED BY M. Meyers DEPTH TO WATER (First Encountered) 5.0 ft (07-Jan-04) REVIEWED BY R. Clark-Riddell, PE# 49629 **DEPTH TO WATER (Static)** NA

REMARKS Located onsite near center of property. Temp casing w 5 ft of screen (5 to 10 & 41 to 46 ft bgs) installed to collect GW samples. pgs GRAPHIC LOG CONTACT EPTH (ft bg TPHg (ppm) (mdd) U.S.C.S. BLOW EXTENT DEPTH (ft bgs) SAMPLE LITHOLOGIC DESCRIPTION WELL DIAGRAM PID ( CONCRETE: 6" thick. 0.5 Clavey SILT (ML): dark brown; medium stiff; moist; 20% ML clay, 70% silt, 10% fine to medium grained sand; medium 2.0 plasticity; low estimated permeability. <1.0 SB-22 Sandy Clayey SILT (ML): brown; soft; moist; 30% clay, @3 ML 50% silt, 15% fine to medium grained sand, 5% gravel to 10mm in diameter; low plasticity; low estimated permeability. Gravelly Silty SAND (SM): blue gray; medium dense; wet; 30% silt, 50% fine to coarse grained sand, 20% 647 SM 6.0 410 SB-22 @6 angular gravel to 10mm in diameter; high estimated permeability Sandy SILT (ML): orange brown and blue gray; stiff; moist; 10% clay, 60% silt, 30% fine grained sand; low ML 400 SB-22 plasticity; moderate estimated permeability; mottled. 115 @9 @ 7: becomes damp, decreased mottling.
@ 9: becomes 10% clay, 50% silt, 30% fine grained sand,
10% angular gravel to 10mm in diameter. 10.0 302 Gravelly Sandy SILT (ML): orange brown; stiff; damp; 10% clay, 50% silt, 20% fine grained sand, 20% angular gravel to 8mm in diameter; low plasticity; moderate 13 estimated permeability. @ 12': becomes dry. ML 203 @ 18': becomes mottled orange brown and blue gray. 19.0 10 Clayey SILT (ML): brown; very stiff; damp; 30% clay, 70% silt; medium plasticity; low estimated permeability; some FeO2 nodules. ML WELL LOG (PID/TPHG) HANADY/NADY/GPJ DEFAULT/GDT 2/23/04 31 Portland Type I/II Cement 25.0 Sandy SILT (ML): brown; soft; moist; 65% silt, 30% very fine to fine grained sand, 5% well rounded gravel; low plasticity; moderate estimated permeability. @ 27': becomes hard; dry; 50% silt, 40% fine to very coarse grained sand, 10% well rounded gravel. 7 ML @ 29': becomes medium stiff. 30 7 @ 31': becomes hard. 32.0 Clayey SILT (ML): light brown; very stiff; damp; 30% clay, 70% silt; medium plasticity; low estimated permeability. 3

Continued Next Page



**CLIENT NAME** 

LOCATION

WELL LOG (PID/TPHG) HANADYNADY.GPJ DEFAULT.GDT 2/23/04

JOB/SITE NAME

Cambria Environmental Technology, Inc. 5900 Hollis Street, Suite A Emeryville, California 94608 Telephone: (510) 420-0700 Fax: (510) 420-9170

1137-1167 65th Street, Oakland, California

John Nady

65th Street



BORING/WELL NAME

DRILLING STARTED

## **BORING/WELL LOG**

PAGE 2 OF 2

SB-22A/C 07-Jan-04 DRILLING COMPLETED 07-Jan-04

PID (ppm)  The graph (ppm)  Well display		Continued from Previous Page										
@ 35': becomes medium plasticity.	PID (ppm)	TPHg (ppm)	BLOW	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WE	LL DIAGRAM
ML  43.0  43.0  44.5  ML  Gravelly SILT (ML): light brown and brown.  Gravelly Silt, 10% fine to coarse sand, 20% well coarse sand,	0					45	ML		@ 38': some FeO2 nodules.  @ 41': becomes mottled light brown and brown.  Gravelly SILT (ML): light brown and brown; very stiff; dry; 10% clay, 60% silt, 10% fine to coarse sand, 20% well rounded gravel to 20mm in diameter; low plasticity; low estimated permeability.  @ 46': Encountered drilling refusal.	43.0		Bottom of Boring @ 46 ft



# DRAFT

## **BORING/WELL LOG**

6.5 ft (06-Jan-04) $\overline{\qquad}$
<u>va</u>
).

Located onsite near center of property. REMARKS CONTACT DEPTH (ft bgs) SAMPLE ID GRAPHIC LOG TPHg (ppm) EXTENT DEPTH (ft bgs) U.S.C.S. PID (ppm) BLOW WELL DIAGRAM LITHOLOGIC DESCRIPTION CONCRETE: 3 inches thick. 0.3 0 Sandy SILT (ML): light brown; medium stiff; moist; 10% clay, 50% silt, 30% sand, 10% gravel to 40mm in ML diameter; low plasticity; moderate estimated permeability; 3.0 \$B-23 some brick. <1.0 @ 1.5': becomes dark brown.

Clayey SILT (ML): dark brown; medium stiff; moist; 30% @3 clay, 60% silt, 10% fine grained sand; low plasticity; low estimated permeability. 0 ML SB-23 Portland Type <1.0 @ 5': becomes orange brown. Ā 0 @6 I/II Cement @ 6.5': becomes wet and mottled. @ 7': becomes moist; 30% clay, 55% silt, 10% fine grained sand, 5% gravel to 10mm in diameter. 8.0 Sandy SILT (ML): orange brown and light brown; medium stiff; moist; 50% silt, 40% fine grained sand, 10% SB-23 0 @9 angular to subrounded gravel; moderate estimated ML permeability. 12.0 Bottom of Boring @ 12 ft VELL LOG (PID/TPHG) HANADYANADY.GPJ DEFAULT.GDT 2/23/04 PAGE 1 OF





## **BORING/WELL LOG**

SB-24 BORING/WELL NAME **CLIENT NAME** John Nady 05-Jan-04 DRILLING STARTED JOB/SITE NAME 65th Street 1137-1167 65th Street, Oakland, California DRILLING COMPLETED 05-Jan-04 LOCATION NA PROJECT NUMBER 522-1000 WELL DEVELOPMENT DATE (YIELD)\_ **GROUND SURFACE ELEVATION** NA Precision DRILLER TOP OF CASING ELEVATION NA DRILLING METHOD Hydraulic push, limited access Envirocore BORING DIAMETER \_\_ 2 3/8 inches SCREENED INTERVAL NA

LOG	GED BY				eyers			DEPTH TO WATER (First Encountered	5.0	) ft (05-Jan-	-04) $\overline{\Sigma}$
	EWED I					dell, P	E# 496		N/		Y
REM	ARKS		L	.ocat	led insi	de stud	dio build	ing near center of property. Temp casing w 5 ft of screen (7 to 12	ft bgs)	installed to	collect GW sampl
PID (ppm)	TPHg (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WEL	L DIAGRAM
WELL LOG (PID/TPHG) H:MADYNADY.GPJ DEFAULT.GDT 223/04	980		SB-24 @3 SB-24 @6 SB-24 @9			ML		CONCRETE: 3 inches thick.  Sandy SILT (ML): dark brown; medium stiff; moist; 10% clay, 60% silt, 30% very fine to fine grained sand; low plasticity; moderate estimated permeability.  ② 5': becomes blue gray; stiff; wet.  ③ 7': becomes 10% clay; 50% silt; 40% very fine to medium grained sand.  Silty SAND (SM): gray; dense; moist; 30% silt, 60% very fine to medium grained sand, 10% gravel to 20mm in diameter; moderate estimated permeability.	11.0 12.0		▼ Portland Type I/II Cement  Bottom of Boring @ 12 ft



**BORING/WELL LOG** 

PAGE 1 OF

DRAFT

CLIENT NAME	John Nady	BORING/WELL NAME SB-25A		
JOB/SITE NAME _	65th Street	DRILLING STARTED 08-Jan-04		
LOCATION _	1137-1167 65th Street, Oakland, California	DRILLING COMPLETED 08-Jan-04		
PROJECT NUMBER _	522-1000	WELL DEVELOPMENT DATE (YIELD)_	NA	
DRILLER	Precision	GROUND SURFACE ELEVATION	NA	······
DRILLING METHOD _	Hydraulic push, track mounted Envirocore	TOP OF CASING ELEVATION NA		
BORING DIAMETER	2 3/8 inches	SCREENED INTERVAL NA		
LOGGED BY	M. Meyers	DEPTH TO WATER (First Encountered)	5.0 ft (08-Jan-04)	$\nabla$
REVIEWED BY	R. Clark-Riddell, PE# 49629	DEPTH TO WATER (Static)	NA	
REMARKS	Located on sidewalk south of 65th St. Temp casin	ng w 5 ft of screen (5 to 10 ft bgs) installed	to collect GW samples.	

CONTACT DEPTH (ft bgs) SAMPLE ID GRAPHIC LOG TPHg (ppm) U.S.C.S. PID (ppm) BLOW DEPTH (ft bgs) EXTENT LITHOLOGIC DESCRIPTION WELL DIAGRAM ASPHALT: 4 inches thick.

Clayev SiLT (ML): brown; medium stiff; moist; 30% clay, 60% silt, 10% very fine grained sand; low plasticity; low estimated permeability. 0.3 ML Ā 2.2 @ 5': becomes wet. 6.0 Silty SAND (SM): brown; medium dense; wet; 40% silt, 60% fine grained sand; moderate estimated permeability. @ 7': becomes orange brown; dense; damp; 40% silt, 60% fine to very coarse grained sand. 1.5 SM 10.0 10 Bottom of Boring @ 10 ft WELL LOG (PID/TPHG) HANADYANADY.GPJ DEFAULT.GDT 2/23/04



Fax: (510) 420-9170

## **BORING/WELL LOG**

**BORING/WELL NAME** SB-25C **DRILLING STARTED** 08-Jan-04

**CLIENT NAME** John Nady JOB/SITE NAME 65th Street LOCATION DRILLING COMPLETED 08-Jan-04 1137-1167 65th Street, Oakland, California PROJECT NUMBER 522-1000 WELL DEVELOPMENT DATE (YIELD) NA DRILLER Precision **GROUND SURFACE ELEVATION** DRILLING METHOD Hydraulic push, Envirocore TOP OF CASING ELEVATION NA BORING DIAMETER 2.5 inches SCREENED INTERVAL NA **LOGGED BY** M. Meyers **DEPTH TO WATER (First Encountered)** 29.0 ft (08-Jan-04) REVIEWED BY R. Clark-Riddell, PE# 49629 DEPTH TO WATER (Static) NΑ

PID (ppm)	TPHg (ppm)	BLOW	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WEL	L DIAGRAM
						ML		ASPHALT: 4 inches thick.  Clayey SILT (ML): brown; medium stiff; moist; 30% clay, 60% silt, 10% very fine grained sand; low plasticity; low estimated permeability.	0.3		
					5	SM		@ 5': becomes wet.  Silty SAND (SM): brown; medium dense; wet; 40% silt, 60% fine grained sand; moderate estimated permeability. @ 7': becomes orange brown; dense; damp; 40% silt, and 60% fine to very coarse grained sand.	6.0		
0					10  			Gravelly Sandy SILT (ML): orange brown; stiff; damp; 50% silt, 30% fine grained sand, 20% subround gravel to 20mm in diameter; moderate estimated permeability; mottled; some shell fragments.  @ 12': becomes light gray; very stiff; 60% silt, 40% fine grained sand; some FeO2 staining.	10.0		
0					 15 	ML		@ 14': becomes 60% silt, 30% fine grained sand, 10% well rounded gravel to 20mm in diameter.  @ 17': becomes 50% silt, 35% fine grained sand, 15% well rounded gravel to 30mm in diameter.	18.0		✓ Portland Ty I/II Cement
0					- 20 	ML		Clayey SILT (ML): orange brown; very stiff; damp; 35% clay, 60% silt, 5% very fine grained sand; medium plasticity; low estimated permeability; some shell fragments.			
0					 25			@ 25': becomes 20% clay, 60% silt, 10% fine grained ─ sand, 10% well rounded gravel to 10mm in diameter; low	26.0		
0					 	ML		\ \text{estimated permeability.} \ \ Sandy SILT (ML): orange brown; stiff; moist; 10% clay, 50% silt, 40% fine grained sand; low plasticity; moderate	<u>7</u> 29.0		
0					-30-  	ML ML		35% fine to very coarse grained sand, 15% gravel to 20mm in diameter; moderate estimated permeability; mottled with clay chucks.  Clayey SILT (ML): light brown; stiff; moist; 30% clay, 70% silt; medium plasticity; low estimated permeability.  @ 32': becomes very stiff; damp; no shell fragments.	30.5		
								• • • • • • • • • • • • • • • • • • • •	34.0	\\/\ <u>\</u>	Bottom of Boring @ 34



WELL LOG (PID/TPHG) HINADYINADY.GPJ DEFAULT.GDT 2/23/04

Cambria Environmental Technology, Inc. 5900 Hollis Street, Suite A Emeryville, California 94608 Telephone: (510) 420-0700 Fax: (510) 420-9170

**BORING/WELL LOG** 

John Nady **CLIENT NAME BORING/WELL NAME** SB-26A **JOB/SITE NAME** 65th Street **DRILLING STARTED** 07-Jan-04 LOCATION 1137-1167 65th Street, Oakland, California **DRILLING COMPLETED** 07-Jan-04 PROJECT NUMBER 522-1000 WELL DEVELOPMENT DATE (YIELD) NA DRILLER **GROUND SURFACE ELEVATION** Precision NA **DRILLING METHOD** Hydraulic push, track mounted Envirocore TOP OF CASING ELEVATION NA **BORING DIAMETER** 2 3/8 inches SCREENED INTERVAL M. Meyers **LOGGED BY** DEPTH TO WATER (First Encountered) 4.0 ft (07-Jan-04) REVIEWED BY R. Clark-Riddell, PE# 49629 **DEPTH TO WATER (Static)** NA

REMARKS  Located in rear of property. Temp casing w 5 ft of screen (8 to 13 ft bgs) installed to collect  (mudd) BHAL  (COUNTS  SAWMPLE ID  OCCUPATS  COUNTS  SAWMPLE ID  OCCUPATS  COUNTS  CO	CONTACT SO	
7.0  ASPHALT: 4 inches thick.  Sandy Clayey SILT (ML): dark brown; soft; moist; 25% clay, 60% silt, 15% fine to very coarse grained sand; medium plasticity; low estimated permeability; mottled; some organics.	0.3 7. 5.0 6.0 10.0 12.0 13.0	Portland Type I/II Cement  Bottom of Boring @ 13 ft

# Appendix B Laboratory Analytical Reports

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone: 925-798-1620 Fax: 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/20/04
5900 Hollis St, Suite A	Nady	Date Received: 01/21/04
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Reported: 01/27/04
	Client P.O.:	Date Completed: 01/27/04

WorkOrder: 0401231

January 27, 2004

Dear Matt:

#### Enclosed are:

- 1). the results of 1 analyzed sample from your #522-1000-020; John Nady project,
- 2). a QC report for the above sample
- 3), a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Angela Rydelius, Lab Manager

## McCampbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com

Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/20/04		
5900 Hollis St, Suite A	Nady	Date Received: 01/21/04		
·	Client Contact: Matt Meyers	Date Extracted: 01/22/04		
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 01/22/04		

Gasoline Range (C6-C12) S	Stoddard Solvent Range (C9-C12) Volatile Hydrocarbons w	vith BTEX & MTBE*
Extraction Method: SW5030B	Analytical Method: SW8021B/8015Cm	Work Order: 040123

Analytical	Work Order:	Work Order: 0401231		
0401231-001A SB-21A		Reporting Li	mit for	
W		DF =1		
10		S	W	
	ug/kg	μg/L		
6100		NA	50	
5600		NA	50	
ND<50		NA	5.0	
ND<5.0		NA	0.5	
ND<5.0		, NA	0.5	
ND<5.0		NA	0.5	
ND<5.0		NA	0.5	
Surrogate	e Recoveries (%)			
110				
e,h				
	0401231-001A  SB-21A  W 10  6100  5600  ND<50  ND<5.0  ND<5.0  ND<5.0  Surrogate  110	SB-21A  W 10  Concentration  6100  5600  ND<50  ND<5.0  ND<5.0  ND<5.0  ND<5.0  Surrogate Recoveries (%)	Na	

## \* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

Angela Rydelius, Lab Manager

<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; c) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

-			
	McCampbell	Analytical Inc.	

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Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/20/04
5900 Hollis St, Suite A	Nady	Date Received: 01/21/04
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Extracted: 01/21/04
Emeryvine, CA 94000	Client P.O.:	Date Analyzed: 01/23/04

#### Diesel (C10-23) and Oil (C18+) Range Extractable Hydrocarbons as Diesel and Motor Oil\*

Extraction method:	SW3510C		Analytical methods: SW8015C		Work Or	der: 0401231
Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS
0401231-001B	SB-21A	w	110,000,n,h	ND<25,000	100	#
	- - 					
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<u>.</u> .						
	,					

Reporting Limit for DF =1;	w	50	250	μg/L
ND means not detected at or above the reporting limit	S	NA	NA	mg/Kg

<sup>•</sup> water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.



<sup>#</sup> cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com

Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/20/04
5900 Hollis St, Suite A	Nady	Date Received: 01/21/04
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Extracted: 01/22/04
Emeryvine, CA 94000	Client P.O.:	Date Analyzed: 01/22/04

#### Halogenated Volatile Organics by P&T and GC-ELCD (8010 Basic Target List)\*

Halogenated V	olatile Organics by I	P&T and GC-ELCD (8010 Basic Ta	rget List)*	
Extraction Method: SW5030B	Analytica	l Method: SW8021B	Work Ord	er: 0401231
Lab ID	0401231-001C			
Client ID	SB-21A	* 10 17 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Limit for
Matrix	w		Dr	·=1
DF	100		S	W
Compound		μg/kg	μg/L	
Bromodichloromethane	ND<50		NA NA	0.5
Bromoform	ND<50		NA NA	0.5
Bromomethane	ND<50		NA NA	0.5
Carbon Tetrachloride	ND<50		NA NA	0.5
Chlorobenzene	ND<50		NA	0.5
Chlorocthane	ND<50		NA	0.5
2-Chloroethyl vinyl ether	ND<50		NA NA	0.5
Chloroform	ND<50		NA	0.5
Chloromethane	ND<50		NA NA	0.5
Dibromochloromethane	ND<50		NA	0.5
1,2-Dichlorobenzene	ND<50		NA	0.5
1,3-Dichlorobenzene	ND<50		NA	0.5
1,4-Dichlorobenzene	ND<50		NA	0.5
Dichlorodifluoromethane	ND<50		NA NA	0.5
1,1-Dichloroethane	ND<50		NA	0.5
1,2-Dichloroethane	ND<50		NA	0.5
1,1-Dichloroethene	ND<50		NA	0.5
cis-1,2-Dichloroethene	ND<50		NA	0.5
trans-1,2-Dichloroethene	ND<50		NA	0.5
1,2-Dichloropropane	ND<50		NA	0.5
cis-1,3-Dichloropropene	ND<50		NA	0.5
trans-1,3-Dichloropropene	ND<50		NA	0.5
Methylene chloride	ND<50		NA	0.5
1,1,2,2-Tetrachloroethane	ND<50		NA	0.5
Tetrachloroethene	ND<50		NA	0.5
1,1,1-Trichloroethane	ND<50		NA	0.5
1,1,2-Trichloroethane	ND<50		NA	0.5
Trichloroethene	ND<50		NA	0.5
Trichlorofluoromethane	ND<50		NA	0.5
Vinyl Chloride	ND<50		NA	0.5
	Surrogate	e Recoveries (%)		
%SS:	83.6			
Comments	j,h			

\* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content; k) reporting limit rasied due to insufficient sample amount.

Angela Rydelius, Lab Manager

### McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

### QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W

WorkOrder: 0401231

EPA Method: SW802	21B/8015Cm E	Extraction:	SW5030E	3	BatchID:	10039	Spiked Sample ID: 0401228-011A				
	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)	
	μg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	Hìgh	
TPH(btex) <sup>£</sup>	ND	60	95.3	94.8	0.553	90.9	82.3	9.93	70	130	
MTBE	ND	10	95.4	93.4	2.15	91	95.4	4.78	70	130	
Benzene	NĐ	10	102	103	1.85	105	99.3	5.92	70	130	
Toluene	ND	10	105	106	1.20	108	102	5.01	70	130	
Ethylbenzene	ND	10	105	107	1.69	108	99.8	7.63	70	130	
Xylenes	ND	30	107	110	3.08	110	92.7	17.1	70	130	
%SS:	119	10	112	113	0.744	116	116	0	70	130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



<sup>%</sup> Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

<sup>\*</sup> MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

<sup>£</sup> TPH(btex) = sum of BTEX areas from the FID.

<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

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### QC SUMMARY REPORT FOR SW8015C

Matrix: W

WorkOrder: 0401231

EPA Method: SW8015C	E	Extraction:	SW35100		BatchID:	10042	Spiked Sample ID: N/A			
	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
	µg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(d)	N/A	7500	N/A	N/A	N/A	99.4	96.1	3.34	70	130
%SS:	N/A	2500	N/A	N/A	N/A	98.9	96.6	2.36	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

\* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

QA/QC Officer

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

### QC SUMMARY REPORT FOR SW8021B

Matrix: W

WorkOrder: 0401231

EPA Method: SW8021B	E	xtraction:	SW5030E	3	BatchID:	9978	Spiked Sample ID: 0401219-001E					
	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)		
	µg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High		
Chlorobenzene	ND	10	90.9	89.4	1.67	95	91.7	3.56	70	130		
1.1-Dichloroethene	ND	10	85.5	84.1	1.63	95.6	92.1	3.74	70	130		
Trichloroethene	ND	10	103	98.1	5.11	100	91.2	9.60	70	130		
%SS:	86.7	10	88.2	88.4	0.187	93.5	93.5	0	70	130		

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

QA/QC Officer

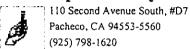
<sup>%</sup> Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

## McCampbell Analytical Inc.



## **CHAIN-OF-CUSTODY RECORD**

Page 1 of 1

WorkOrder: 0401231

Report to:

Matt Mevers

Cambria Env. Technology 5900 Hollis St. Suite A

Emeryville, CA 94608

TEL:

(510) 420-0700

FAX:

(510) 420-3394

ProjectNo: #522-1000-020: John Nadv PO:

Bill to:

5

4

Requested TAT:

Date Received:

5 days

Accounts Payable

Cambria Env. Technology

5900 Hollis St. Ste. A

Date Printed:

1/21/04

Emervville, CA 94608

9

Requested Tests (See legend below)

1/21/04

Sample ID

0401231-001

ClientSampID

SB-21A

Matrix

Water

1/20/04 11:20:00

Collection Date Hold

В

3

- Test Legend:

1 8010B W 6 11

2 G-MBTEX W 7 12

3 TPH(DMO)\_W 8 13

9

5 10 15

Prepared by: Maria Venegas

Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

M	McCAMPBELL ANALYTICAL INC.  110 2 <sup>nd</sup> AVENUE SOUTH, #D7										TUI	CHAIN OF CUSTODY RECORD  URN AROUND TIME:   RUSH 24 HOUR 48 HOUR 5 DAY					
Telephone: (9		CO, CA 9455	53-5560		.x: (9	25) 7	98-	1622	,				ΕĮ	)F	Rear	quired? Tyes No	
Report To: Matt Meyers	22) 170 1020	B	ill To			22, .	70					$\top$				Analysis Request Other Comments	;
Company: Cambria Envir	onmental Techn	ology, Inc.															
5900 Hollis Street, Suite A	4												ļ				
Emeryville, Ca 94608											_	ļ	:				
Tele: (510) 420-3314 Fax: (510) 420-9170										:	i						
Project #:522-1000-020	an anth a	Project N	lame:	John	Nady	<u>'                                    </u>						_		į			
Project Location: 1137-11	67 65 Street, O	akland											2	2	į		
Sampler Signature:			r	1	т				<del>,                                    </del>	4T.T.	100	4	108 A	1801	;		
	SAM	PLING		22	]	TAN	RIX	<u>.</u>	PR	ESE	HOD RVEI	2	by EP.	y EP/	010		
SAMPLE ID (Field Point Name)	ATION Date	Time	# Containers	Type Containers		Surit Air	Sludge	Other	Ice	HCI	HNO <sub>3</sub>	Other	BTEX and MTBE by EPA 8015	TPHg/ss/d/mo by EPA 801	VOCs by EPA 8010		
3B-21A	1/20/04	11:20	7	VOAS Amber	X.				$\chi$	X			χ	X	Х		
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Relinquished By:	Date:	Time:	Recei	xed By		X,	/	1/	2	~ ·	7		Ple	ase	emai	ail results.	
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110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com E-mail: main@nccampbell.com

Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/20/04
5900 Hollis St, Suite A	Nady	Date Received: 01/21/04
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Reported: 01/27/04
Eneryvine, CA 94000	Client P.O.:	Date Completed: 01/27/04

WorkOrder: 0401230

January 27, 2004

Dear Matt:

Enclosed are:

- 1). the results of 3 analyzed samples from your #522-1000-020; John Nady project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Angela Rydelius, Lab Manager

Yours trul

## McCampbell Analytical Inc.

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Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/20/04
5900 Hollis St, Suite A	Nady	Date Received: 01/21/04
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Extracted: 01/21/04
Lineryvine, Cr. 94000	Client P.O.:	Date Analyzed: 01/22/04

Gasoline Range (C6-C12) So	toddord Colvent	Panga (C0 C12)	Volotile Truduce who	- AL DEEV O ME	DTP4			
Extraction Method: SW5030B		range (C9-C12) alytical Method: SW802		IIS WITH BIEA & IVII				
Lab ID	0401230-001A	0401230-002A	0401230-003A		<del></del>			
Client ID	SB-21@3'	SB-21@6'	SB-21@9'	Reporting	Reporting Limit for DF = 1			
Matrix	S	S	S					
DF	1	20	40	s	W			
Compound		Conc	entration	mg/Kg	ug/L			
TPH(g)	ND	590	470	1.0	NA			
TPH(ss)	ND	590	450	1.0	NA			
мтве	ND	ND<1.0	ND<2.0	0.05	NA			
Benzene	ND	ND<0.10	ND<0.20	0.005	NA			
Toluene	ND	ND<0.10	ND<0.20	0.005	NA			
Ethylbenzene	ND	ND<0.10	0.23	0.005	NA			
Xylenes	ND	ND<0.10	ND<0.20	0.005	NA			
	Surr	ogate Recoveries	(%)					
%SS:	90.5	85.3	84.6					
Comments		g	g		<del></del>			

<sup>\*</sup> water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.



<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

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Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/20/04
5900 Hollis St, Suite A	Nady	Date Received: 01/21/04
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Extracted: 01/21/04
Emeryvine, Cri 94000	Client P.O.:	Date Analyzed: 01/21/04-01/23/04

#### Diesel (C10-23) and Oil (C18+) Range Extractable Hydrocarbons as Diesel and Motor Oil\*

Extraction method: SW3550C			Analytical methods: SW8015C	Work O	Work Order: 0401230		
Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS	
0401230-001A	SB-21@3'	s	ND	ND	1	90.2	
0401230-002A	SB-21@6'	S	220,n	ND<25	5	117	
0401230-003A	SB-21@9'	S	270,n	ND<25	5	99.8	
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Reporting Limit for DF =1; ND means not detected at or	W	NA	NA	ug/L
above the reporting limit	S	1.0	5.0	mg/Kg

<sup>\*</sup> water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

# cluttered chromatogram resulting in cocluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.



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Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/20/04			
5900 Hollis St, Suite A	Nady	Date Received: 01/21/04			
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Extracted: 01/21/04			
Emeryvine, en 94000	Client P.O.:	Date Analyzed: 01/22/04			

#### Halogenated Volatile Organics by P&T and GC-ELCD (8010 Basic Target List)\*

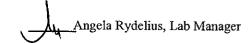
Halogenated V	olatile Organics	by P&T and GC	J-ELCD (8010 Bas	ic Target List)*	
Extraction Method: SW5030	An	alytical Method: SW802	1B	Work Orde	r: 0401230
Lab ID	0401230-001A	0401230-002A	0401230-003A		
Client ID	SB-21@3'	SB-21@6'	SB-21@9'	Reporting	
Matrix	S	DF	=1		
DF	1	S 20	\$ 40	S	w
Compound		Conc	entration	µg/Кg	μg/L
Bromodichloromethane	ND	ND<100	ND<200	5.0	NA
Bromoform	ND	ND<100	ND<200	5.0	NA
Bromomethane	ND	ND<100	ND<200	5.0	NA
Carbon Tetrachloride	ND	ND<100	ND<200	5.0	NA
Chlorobenzene	ND	ND<100	ND<200	5.0	NA
Chloroethane	ND	ND<100	ND<200	5.0	NA
2-Chloroethyl vinyl ether	ND	ND<100	ND<200	5.0	NA
Chloroform	ND	ND<100	ND<200	5.0	NA
Chloromethane	ND	ND<100	ND<200	5.0	NA
Dibromochloromethane	ND	ND<100	ND<200	5.0	NA
1,2-Dichlorobenzene	ND	ND<100	ND<200	5.0	NA
1,3-Dichlorobenzene	ND	ND<100	ND<200	5.0	NA
1,4-Dichtorobenzene	ND	ND<100	ND<200	5.0	NA
Dichlorodifluoromethane	ND	ND<100	ND<200	5.0	NA
1,1-Dichloroethane	ND	ND<100	ND<200	5.0	NA
1,2-Dichloroethane	ND	ND<100	ND<200	5.0	NA
1,1-Dichloroethene	ND	ND<100	ND<200	5.0	NA
cis-1,2-Dichloroethene	ND	ND<100	ND<200	5.0	NA
trans-1,2-Dichloroethene	ND	ND<100	ND<200	5.0	NA
1,2-Dichloropropane	ND	ND<100	ND<200	5.0	NA
cis-1,3-Dichloropropene	ND	ND<100	ND<200	5.0	NA
trans-1,3-Dichloropropene	ND	ND<100	ND<200	5.0	NA
Methylene chloride	ND	ND<100	ND<200	5.0	NA
1,1,2,2-Tetrachloroethane	ND	ND<100	ND<200	5.0	NA NA
Tetrachloroethene	ND	ND<100	ND<200	5.0	NA
1,1,1-Trichloroethane	ND	ND<100	ND<200	5.0	NA
1,1,2-Trichloroethane	ND	ND<100	ND<200	5.0	NA
Trichloroethene	ND	ND<100	ND<200	5.0	NA
Trichlorofluoromethane	ND	ND<100	ND<200	5.0	NA
Vinyl Chloride	ND	ND<100	ND<200	5.0	NA
	Surre	gate Recoveries	(%)		
%SS:	98.9	94.1	79.5		
Comments		j	i		

\* water and vapor samples and all TCLP & SPLP extracts are reported in μg/L, soil/sludge/solid samples in μg/kg, wipe samples in μg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content; k) reporting limit rasied due to insufficient sample amount.



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#### QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: S

WorkOrder: 0401230

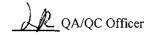
EPA Method: SW80	21B/8015Cm E	Extraction:	tion: SW5030B BatchID: 10038			10038	0038 Spiked Sample ID: 0401212-011A			
	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(btex) <sup>£</sup>	ND	0.60	101	102	1.20	105	96.7	7.81	70	130
MTBE	ND	0.10	89	92.4	3.70	83	86.2	3.78	70	130
Benzene	ND	0.10	102	101	0.642	103	103	0	70	130
Toluene	ND	0.10	88.9	88.2	0.735	92.4	90.2	2.46	70	130
Ethylbenzene	ND	0.10	106	105	0.573	110	105	4.84	70	130
Xylenes	ND	0.30	96.3	96.3	0	100	100	0	70	130
%SS:	104	0.10	111	107	3.67	117	116	0.858	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



<sup>%</sup> Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

<sup>\*</sup> MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

<sup>£</sup> TPH(btex) = sum of BTEX areas from the FID.

<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

#### QC SUMMARY REPORT FOR SW8015C

Matrix: S

WorkOrder: 0401230

EPA Method: SW8015C	E	Extraction:	SW35500	0	BatchID:	10040	Spiked Sample ID: 0401225-002A			
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(d)	1.39	150	97.9	97.2	0.703	95.3	94.5	0.756	70	130
%SS:	105	50	95.8	94.9	1.01	97.9	94.7	3.37	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

\* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

QA/QC Officer



NONE

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### QC SUMMARY REPORT FOR SW8021B

Matrix: S

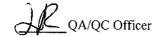
WorkOrder: 0401230

EPA Method: SW8021B	E	extraction:	SW5030		BatchID:	10043	s	piked Sampi	le ID: 04012	30-001A
	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
	μg/Kg	μg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Chlorobenzene	ND	50	72.4	76.6	5.65	80.9	78.9	2.56	70	130
1.1-Dichloroethene	ND	50	87.5	92.3	5.29	113	110	2.52	70	130
Trichloroethene	ND	50	78.7	83.6	6.13	93.1	90	3.42	70	130
%SS:	98.9	50	96.6	96.5	0.153	98.4	96.2	2.28	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



<sup>%</sup> Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

<sup>\*</sup> MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



110 Second Avenue South, #D7 Pacheco, CA 94553-5560 (925) 798-1620

# **CHAIN-OF-CUSTODY RECORD**

Page 1 of 1

WorkOrder: 0401230

Report to:

Matt Meyers

Cambria Env. Technology

5900 Hollis St, Suite A Emeryville, CA 94608 TEL:

(510) 420-0700

FAX:

(510) 420-3394

ProjectNo: #522-1000-020; John Nady PO:

Bill to:

. \_

Accounts Payable
Cambria Env. Technology

5900 Hollis St, Ste. A

Emeryville, CA 94608

Requested TAT:

5 days

iai: 5 da

Date Received: 1/21/04

Date Printed: 1/21/04

				:				 		Re	ques	ted	Tests	(See	legen	d bel	low)						
Sample ID	ClientSampID	Matrix	Collection Date	Hold	1	2	3	 4	5	5	6		7	8	9	)	10	11	1	12	13	14	15
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0401230-003	SB-21@9'	Soil	1/20/04 10:25:00		Α	Α	Α			1								1	<del></del>				-

### Test Legend:

1	8010B_S
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2	G-MBTEX_S
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12	

3	TPH(DMO)_S
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4	
9	
14	

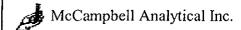
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1	0	 		 	
1	5	 	 	 	

Prepared by: Maria Venegas

#### Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

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Report To: Matt M			E	ill To			_	.,,						┢	Analysis Request								T-	Ot	her		Co	าเทเต	nts								
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Emeryville, Ca 94608 E-mail: mmeyers@cambria-env.com									]	!	:			1									:	İ		!		-									
Tele: (510) 420-33	14		Fax: (51	0) 420	0-917	0												}	:		-								i I								
Project #:522-1000-020 Project Name: John Nady										;	İ			ļ		İ		İ	1					İ													
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SAMPLE ID (Field Point Name)	LOCATION	Date	Time	# Containers	Type Containers	Water	Soil	Air	Sludge	Other	HCI	HNO,	Other	BTEX and MTBE by 6PA 8015	TPHg/ss/d/mo by EPA 301	VOCs by EPA 8010								:										:			
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Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/13/04
5900 Hollis St, Suite A	Nady	Date Received: 01/14/04
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Reported: 01/20/04
Emery vine, err 5 voos	Client P.O.:	Date Completed: 01/20/04

WorkOrder: 0401149

January 20, 2004

Dear Matt:

### Enclosed are:

- 1). the results of 3 analyzed samples from your #522-1000-020; John Nady project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Angela Rydelius, Lab Manager

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com

Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/13/04						
5900 Hollis St, Suite A	Nady	Date Received: 01/14/04						
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Extracted: 01/15/04						
Emery (me, 621 ) 4000	Client P.O.:	Date Analyzed: 01/15/04						

## Gasoline Range (C6-C12) Stoddard Solvent Range (C9-C12) Volatile Hydrocarbons with BTEX & MTBE\*

Extraction Method: SW5030B	An	alytical Method: SW802	1B/8015Cm	Work Ord	Work Order: 0401149				
Lab ID	0401149-001A	0401149-002A	0401149-003A						
Client ID	SB-12A	SB-20C	SB-20A	Reporting	Limit for				
Matrix	W	W	W	DF =1					
DF	1	1	1	S	W				
Compound		Conc	entration	ug/kg	μg/L				
TPH(g)	230	ND	680	NA	50				
TPH(ss)	ND	ND	610	NA	50				
МТВЕ	ND<40	ND	ND	NA	5.0				
Benzene	ND	ND	ND	NA	0.5				
Toluene	2.0	ND	ND	NA	0.5				
Ethylbenzene	ND	ND	ND	NA	0.5				
Xylenes	ND	ND	3.3	NA	0.5				
	Surro	ogate Recoveries	5 (%)						
%SS:	113	113	109		Manusco view com.				
Comments	a,i	i	g,h						

# \* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.



<sup>#</sup> cluttered chromatogram; sample peak coclutes with surrogate peak.

<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

ø,	McCampbell	Analytical	Inc.
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Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/13/04
5900 Hollis St, Suite A	Nady	Date Received: 01/14/04
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Extracted: 01/14/04
Emeryvine, On 94000	Client P.O.:	Date Analyzed: 01/14/04-01/15/04

Diesel (C10-23) and Oil (C18+	Range Extractable Hydrocarbons as Diesel and Motor Oil*
	The second of th

Extraction method: SW	/3510C		Analytical methods: SW8015C		Work O	rder: 0401149		
Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS		
0401149-001C	SB-12A	w	130,g,d,b,i	300	1	104		
0401149-002C	SB-20C	w	ND,i	ND	1	106		
0401149-003C	SB-20A	w	1400,d,h	ND	1	107		
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Reporting Limit for DF =1; ND means not detected at or	W	50	250	μg/L
above the reporting limit	S	NA	NA	mg/Kg

<sup>\*</sup> water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.



<sup>#</sup> cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

Cambria Env. Technology	•	Date Sampled: 01/13/04
5900 Hollis St, Suite A	Nady	Date Received: 01/14/04
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Extracted: 01/15/04-01/16/04
Emeryvine, CA 94008	Client P.O.:	Date Analyzed: 01/15/04-01/16/04

### Halogenated Volatile Organics by P&T and GC-ELCD (8010 Basic Target List)\*

Extraction Method: SW5030B	•	alytical Method: SW802	1B	,	r: 0401149
Lab ID	0401149-001B	0401149-002B	0401149-003B		
Client ID	SB-12A	SB-20C	SB-20A	Reporting DF	Limit for
Matrix	W	w	W	Dr	-1
DF	1	1	1	S	W
Compound		Conc	entration	μg/kg	μg/L
Bromodichloromethane	ND	ND	ND	i NA	0.5
Втотоботт	ND	ND	ND	NA NA	0.5
Bromomethane	ND	ND	ND	NA NA	0.5
Carbon Tetrachloride	ND	ND	ND	NA	0.5
Chlorobenzene	ND	ND	ND	NA	0.5
Chloroethane	ND	ND	ND	NA	0.5
2-Chloroethyl vinyl ether	ND	ND	ND	NA NA	0.5
Chloroform	ND	ND	ND	NA	0,5
Chloromethane	ND	ND	ND	NA NA	0.5
Dibromochloromethane	ND	ND	ND	NA	0.5
1,2-Dichlorobenzene	ND	ND	ND	NA NA	0.5
1,3-Dichlorobenzene	ND	ND	ND	i NA	0.5
1,4-Dichlorobenzene	ND	ND	ND	NA	0.5
Dichlorodifluoromethane	ND	ND	ND	NA	0.5
1,1-Dichloroethane	ND	ND	ND	NA NA	0.5
1,2-Dichloroethane	ND	ND	ND	NA	0.5
1,1-Dichloroethene	ND	ND	ND	NA NA	0.5
cis-1,2-Dichloroethene	ND	ND	ND	NA	0.5
trans-1,2-Dichloroethene	ND	ND	ND	NA NA	0.5
1,2-Dichloropropane	ND	ND	ND	NA	0.5
cis-1,3-Dichloropropene	ND	ND	ND	NA	0.5
trans-1,3-Dichloropropene	ND	ND	ND	NA	0.5
Methylene chloride	ND	ND	ND	NA NA	0.5
1,1,2,2-Tetrachloroethane	ND	ND	ND	NA	0.5
Tetrachloroethene	ND	ND	ND	NA	0.5
1,1,1-Trichloroethane	ND	ND	ND	NA NA	0.5
1,1,2-Trichloroethane	ND	ND	ND	NA	0.5
Trichloroethene	ND	ND	ND	NA NA	0.5
Trichlorofluoromethane	ND	ND	ND	NA	0.5
Vinyl Chloride	ND	ND	ND	NA	0.5
	Surre	ogate Recoveries	(%)		
%SS:	98.3	95.7	98.8		
Comments	i	i	h		

<sup>\*</sup> water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content; k) reporting limit rasied due to insufficient sample amount.



ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

<sup>#</sup> surrogate diluted out of range or surrogate coelutes with another peak.

### QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W

WorkOrder: 0401149

EPA Method: SW80	21B/8015Cm E	Extraction:	SW5030E	3	BatchID:	9987	Spiked Sample ID: 0401140-001A							
	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)				
	µg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High				
TPH(btex) <sup>£</sup>	ND	60	94.3	93.1	1.22	91	89.8	1.38	70	130				
МТВЕ	ND	10	103	108	4.64	105	104	0.779	70	130				
Benzene	ND	10	107	106	1.04	108	102	5.14	70	130				
Toluene	ND	10	111	109	1.60	111	106	4.33	70	130				
Ethylbenzene	ND	10	111	108	2.25	112	107	4.08	70	130				
Xylenes	ND	30	110	110	0	113	110	2.99	70	130				
%SS:	117	100	108	107	0.333	107	106	0.775	70	130				

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

<sup>%</sup> Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

<sup>\*</sup> MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

<sup>£</sup> TPH(blex) = sum of BTEX areas from the FID.

<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

## QC SUMMARY REPORT FOR SW8015C

Matrix: W

WorkOrder: 0401149

EPA Method: SW8015C	Extraction: SW3510C				BatchID:	9981	Spiked Sample ID: N/A							
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)				
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High				
TPH(d)	N/A	7500	N/A	N/A	N/A	104	107	2.60	70	130				
%SS:	N/A	2500	N/A	N/A	N/A	112	115	2.53	70	130				

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

LR QA/QC Officer

## QC SUMMARY REPORT FOR SW8021B

Matrix: W

WorkOrder: 0401149

EPA Method: SW8021B	E	Extraction:	SW5030E	3	BatchID:	9978	Spiked Sample ID: 0401219-001E							
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (					
	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High				
Chlorobenzene	ND	10	90.9	89.4	1.67	95	91.7	3.56	70	130				
1,1-Dichloroethene	ND	10	85.5	84.1	1.63	95.6	92.1	3.74	70	130				
Trichloroethene	ND	10	103	98.1	5.11	100	91.2	9.60	70	130				
%SS:	86.7	10	88.2	88.4	0.187	93.5	93.5	0	70	130				

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

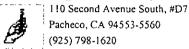
NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

QA/QC Officer

<sup>%</sup> Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

<sup>\*</sup> MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.



# **CHAIN-OF-CUSTODY RECORD**

WorkOrder: 0401149

Report to:

Matt Meyers"

Cambria Env. Technology 5900 Hollis St. Suite A

Emeryville, CA 94608

TEL:

(510) 420-0700

FAX: (510) 420-3394

ProjectNo: #522-1000-020; John Nady

Bill to:

Accounts Pavable

Cambria Env. Technology

5900 Hollis St. Ste. A Emeryville, CA 94608 Date Received:

Requested TAT:

1/14/04

5 days

Date Printed: 1/14/04

												Rec	ues	ted T	est	s (S	e leç	jend	below)								• •
Sample ID	ClientSamplD	Matrix	Collection Date	Hold	1		2	3		4	5	1	6		7		3	9	10		11	12		13	1	4	15
0401149-001	SB-12A	Water	1/13/04 7:30:00 AN	1: []	 B	<del>,</del>	Α	С						:						M. p	-				1	[	
0401149-002	SB-20C	Water	1/13/04 12:45:00		В		Α	С	<u> </u>					1	•	1	:		:	-					<del>                                     </del>	-+	-
0401149-003	SB-20A	Water	1/13/04 1:10:00 PM	1 🗆	В		Α	С		- !		1		Ť		<del>                                     </del>			:				i		<del> </del>		

#### Test Legend:

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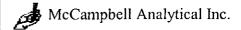
Prepared by: Melissa Valles

#### Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.



	McCAMPBELL ANALYTICAL INC.					CHAIN OF CUSTODY RECORD  TURN AROUND TIME:   T																												
110 2 <sup>nd</sup> AVENUE SOUTH, #D7						DATES OF MOTION CONT.							.																					
Telephor	PACHECO, CA 94553-5560 Telephone: (925) 798-1620 Fax: (925) 798-1622					I	EDF Required? Yes No																											
Report To: Matt M				ill To	: Car	nbria				·			_	.,				Α	naly	sis	Reg	ues	<u>t                                    </u>	<u></u>		: :			Othe	r		Comr	ents	
Company: Cambri		ntal Tech	nology, I	nc.									4	•			!		ļ		1				İ		l	<b>\</b>						1
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Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/12/04
5900 Hollis St, Suite A	Nady	Date Received: 01/13/04
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Reported: 01/20/04
Energyme, CA 94008	Client P.O.:	Date Completed: 01/20/04

WorkOrder: 0401123

January 20, 2004

Dear Matt:

### Enclosed are:

- 1). the results of 2 analyzed samples from your #522-1000-020; John Nady project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4), a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Angela Rydelius, Lab Manager

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com

Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/12/04
5900 Hollis St, Suite A	Nady	Date Received: 01/13/04
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Extracted: 01/14/04
Emeryvine, err 54000	Client P.O.:	Date Analyzed: 01/14/04

# $Gasoline\ Range\ (C6-C12)\ Stoddard\ Solvent\ (C9-C12)\ Volatile\ Hydrocarbons\ as\ Gasoline\ with\ BTEX\ and\ MTBE*$

Extraction Method: SW5030B	An	alytical Method: SW80	21B/8015Cm	Work Orde	er: 0401123
Lab	ID 0401123-001A	0401123-002A			
Client	ID SB-15A	SB-16A		Reporting	Limit for
Ma	rix W	W	• .	DF	
	DF 1	1		S	W
Compound		Con	centration	ug/kg	μg/L
TPH(g)	2700	1700		NA	50
TPH(ss)	2500	1500		NA	50
МТВЕ	ND	ND		NA	5.0
Benzene	ND	0.65		NA	0.5
Toluene	ND	0.51		NA	0.5
Ethylbenzene	ND	1.3		NA	0.5
Xylenes	17	7.7		NA	0.5
	Surre	ogate Recoverie	es (%)		
%SS:	97.2	103			
Comments	e,i	e,h,i			

\* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

Angela Rydelius, Lab Manager

Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/12/04
5900 Hollis St, Suite A	Nady	Date Received: 01/13/04
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Extracted: 01/13/04
Emeryvine, CA 94008	Client P.O.:	Date Analyzed: 01/14/04

### Diesel (C10-23) and Oil (C18+) Range Extractable Hydrocarbons as Diesel and Motor Oil\*

Extraction method: SW3510C			Analytical methods: SW8015C								
Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS					
0401123-001B	SB-15A	w	2400,d,i	290	1	111					
0401123-002B	SB-16A	w	23,000,d,g,h,i	9800	20	116					
				<u>.                                    </u>							
				AL (C.)							
				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	·					
					Ì						

Reporting Limit for DF =1; ND means not detected at or	w	50	250	μg/L
above the reporting limit	S	NA	NA	mg/Kg

<sup>\*</sup> water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.



<sup>#</sup> cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

110 2nd Avenue South. #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.nccampbell.com/E-mail: main@mccampbell.com/

Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/12/04					
5900 Hollis St. Suite A	Nady	Date Received: 01/13/04					
3900 Holls 3t. 3the A	Client Contact: Matt Meyers	Date Extracted: 01/14/04-01/16/04					
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 01/14/04-01/16/04					

# Halogenated Volatile Organics by P&T and GC-ELCD (8010 Basic Target List)\*

Extraction Method: SW5030B		Ana	lytical Method: SW8021B		Work Order	
	Lab ID	0401123-001C	0401123-002C		Reporting	Limit for
	Client ID	SB-15A	SB-16A		DF	
	Matrix	W	w			
	DF	1	5		S	W
Compound			Concent	ration	μg/kg	μg/L
Bromodichloromethane		ND	ND<2.5		NA	0.5
Bromoform		ND	ND<2.5		NA NA	0.5
		ND	ND<2.5		NA	0.5
Bromomethane	•	ND	ND<2.5		l NA	0.5
Carbon Tetrachloride		ND	ND<2.5		; NA	0.5
Chlorobenzene		ND	ND<2.5		NA	0.5
Chloroethane		ND	ND<2.5		NA NA	0.5
2 Chloroethyl vinyl ether		ND	ND<2.5		NA	0.5
Chloroform		ND	ND<2.5		NA	0.5
Chloromethane		ND	ND<2.5		NA NA	0.5
Dibromochloromethane		ND ND	ND<2.5		NA NA	0.5
1,2-Dichlorobenzene		ļ ———————	ND<2.5		NA	0.5
1,3-Dichlorobenzene		ND	ND<2.5		NA	0.5
1.4-Dichlorobenzene		ND	ND<2.5		NA	0.5
Dichlorodifluoromethane		ND ND			NA	0.5
1.1-Dichloroethane		ND	ND<2.5		NA NA	0.5
1,2-Dichloroethane		ND	ND<2.5		NA	0.5
1.1-Dichloroethene		ND	ND<2.5		NA	0.5
cis-1,2-Dichloroethene		ND	ND<2.5		NA	0.5
trans-1,2-Dichloroethene		ND	ND<2.5		NA NA	0.5
1,2-Dichloropropane		ND	ND<2.5		. NA	0.5
cis-1,3-Dichloropropene		ND	ND<2.5			0.5
trans-1,3 Dichloropropene		ND	ND<2.5		NA NA	0.5
Methylene chloride		ND	ND<2.5			0.5
1,1,2,2-Tetrachloroethane		ND	ND<2.5		, NA NA	0.5
Tetrachloroethene		ND	ND<2.5			0.5
1,1.1-Trichloroethane		ND	ND<2.5		NA NA	<del></del>
1,1,2-Trichloroethane		ND	ND<2.5		NA_	0.5
Trichloroethene		ND	ND<2.5		NA NA	0.5
Trichlorofluoromethane		ND	ND<2.5		NA NA	0.5
Vinyl Chloride		ND	ND<2.5		NA _	0.5
VIIIVI CIIIOITA	and the second second	Sur	rogate Recoveries (	%)	:	
%SS:		94.6	97.1			
Comments		i	j,h,i			

<sup>\*</sup> water and vapor samples and all TCLP & SPLP extracts are reported in  $\mu g/L$ , soil/sludge/solid samples in  $\mu g/kg$ , wipe samples in  $\mu g/wipe$ , product/oil/non-aqueous liquid samples in mg/L.

Angela Rydelius, Lab Manager

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

<sup>#</sup> surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content; k) reporting limit rasied due to insufficient sample amount.

## QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W

WorkOrder: 0401123

EPA Method: SW80	021B/8015Cm E	Extraction:	SW5030E	3	BatchID:	9973	Spiked Sample ID: 0401128-004A								
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)					
	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High					
мтве	ND<10	10	117	119	1.15	107	104	2.42	70	130					
Benzene	29.52	10	NR	NR	NR	107	103	3.64	70	130					
Toluene	0.52	10	108	110	1.68	111	106	4.13	70	130					
Ethylbenzene	8.12	10	107	105	0.850	111	107	3.65	70	130					
Xylenes	4.70	30	114	114	0	110	110	0	70	130					
%SS:	109	100	112	114	1.80	110	109	1.37	70	130					

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

<sup>%</sup> Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

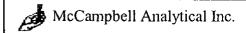
<sup>\*</sup> MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

<sup>£</sup> TPH(btex) = sum of BTEX areas from the FID.

<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



## QC SUMMARY REPORT FOR SW8015C

Matrix: W

WorkOrder: 0401123

EPA Method: SW8015C	E	Extraction:	SW35100	2	BatchID:	9946	Spiked Sample ID: N/A									
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)						
	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High						
TPH(d)	N/A	7500	N/A	N/A	N/A	93	91.7	1.38	70	130						
%SS:	N/A	100	N/A	N/A	N/A	96.3	94.7	1.68	70	130						

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

\* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

## QC SUMMARY REPORT FOR SW8021B

Matrix: W

WorkOrder: 0401123

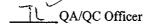
EPA Method: SW8021B	E	extraction:	SW5030E	3	BatchID:	9978	Spiked Sample ID: 0401219-001E								
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)					
	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High					
Chlorobenzene	ND	10	90.9	89.4	1.67	95	91.7	3.56	70	130					
1,1-Dichloroethene	ND	10	85.5	84.1	1.63	95.6	92.1	3.74	70	130					
Trichloroethene	ND	10	103	98.1	5.11	100	91.2	9.60	70	130					
%SS:	86.7	10	88.2	88.4	0.187	93.5	93.5	0	70	130					

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

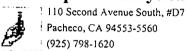


<sup>%</sup> Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

<sup>\*</sup> MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



# **CHAIN-OF-CUSTODY RECORD**

Page 1 of 1

WorkOrder: 0401123

Report to:

Matt Mevers"

Cambria Env. Technology

5900 Hollis St, Suite A Emeryville, CA 94608

TEL: FAX:

(510) 420-0700

(510) 420-3394

ProjectNo: #522-1000-020; John Nady PO:

Bill to:

Requested TAT:

5 days

Accounts Payable

Cambria Env. Technology

5900 Hollis St, Ste. A

Date Received:

1/13/04

Emeryville, CA 94608

Date Printed:

1/13/04

												Requ	ueste	d Te	sts (	See !	lege	nd b	elow)				•••••		
Sample ID	ClientSampID	Matrix	Collection Date	Hold	1		2	3		4	5		6	7		8	T	9	10	1	11	12	1		14   19
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0401123-001	SB-15A	Water	1/12/04 3:00:00 PM		C	i	Α	В	Τ-	<u>_</u>					7		Ī			T				- 7	7 .
0401123-002	SB-16A	Water	1/12/04 3:30:00 PM		С		Α	R					<del></del> +		$^+$									<del>- :</del>	<del></del>

#### Test Legend:

1	8010B_W
6	
11	

2	G-MBTEX_W
7	
12	

3	TPH(DMO)	W
8		
13		

4	
9	
14	

5		 
10		 
15		

Prepared by: Melissa Valles

### Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

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Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/12/04
5900 Hollis St, Suite A	Nady	Date Received: 01/13/04
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Reported: 01/16/04
Elliciyvine, CA 94000	Client P.O.:	Date Completed: 01/16/04

WorkOrder: 0401122

January 16, 2004

#### Dear Matt:

### Enclosed are:

- 1). the results of 4 analyzed samples from your #522-1000-020; John Nady project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Angela Rydelius, Lab Manager

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com/E-mail: main@mccampbell.com/

Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/12/04
5900 Hollis St, Suite A	,	
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Extracted: 01/13/04
Linelyvine, GA 54000	Client P.O.:	Date Analyzed: 01/13/04-01/15/04

Gasoline Range (	C6-C12) Volatile	Hydrocarbons	as Gasoline with	BTEX and MT	BE*		
Extraction Method: SW5030B		alytical Method: SW802				er: 0401122	
Lab ID	0401122-001A	0401122-002A	0401122-003A	0401122-004A		· · ·	
Client ID	SB-15@7.5	SB-15@11.5	SB-16@7.5	SB-16@11.5	Kebornii Filii		
Matrix	S	S	S	S	DF	=1	
DF	200	1	S	W			
Compound		mg/Kg	ug/L				
TPH(g)	1500	ND	90	ND	1.0	NA	
TPH(ss)	820	ND	49	ND	1.0	NA	
МТВЕ	ND<10	ND	ND<0.50	ND	0.05	NA	
Benzene	ND<1.0	ND	ND<0.050	ND	0.005	NA	
Toluene	ND<1.0	ND	ND<0.050	ND	0.005	NA	
Ethylbenzene	ND<1.0	ND	0.069	ND	0.005	NA	
Xylenes	2.4	. ND	0.11	ND	0.005	NA	
	Surro	gate Recoveries	(%)		<u></u>		
%SS:	99.8	100	94.5	95.3			
Comments	e		e		<u> </u>	<del></del>	

<sup>\*</sup> water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.



<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; c) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com

Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/12/04
Nady Nady	Date Received: 01/13/04	
,	Client Contact: Matt Meyers	Date Extracted: 01/13/04
Lineryvine, CA 94000	Client P.O.:	Date Analyzed: 01/13/04-01/14/04

### Diesel (C10-23) and Oil (C18+) Range Extractable Hydrocarbons as Diesel and Motor Oil\*

Extraction method: S	W3550C		Analytical methods: SW8015C	:	Work O	rder: 0401122
Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS
0401122-001A	SB-15@7.5	S	190,d,b	9.3	1	104
0401122-002A	SB-15@11.5	S	ND	ND	1	105
0401122-003A	SB-16@7.5	S	59,d,b	ND	1	99.8
0401122-004A	SB-16@11.5	S	ND	ND	1	103
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Reporting Limit for DF =1; ND means not detected at or	W	NA	NA	ug/L
above the reporting limit	S	1.0	5.0	mg/Kg

<sup>\*</sup> water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

# cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.



Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/12/04
5900 Hollis St, Suite A	Nady	Date Received: 01/13/04
Client Contact: Matt Meyers Emeryville, CA 94608		Date Extracted: 01/13/04
Client P.O.;		Date Analyzed: 01/14/04-01/15/04

Halogenated Volatile Organics by P&T and GC-ELCD (8010 Basic Target List)*
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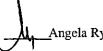
Extraction Method: SW5030	olatile Organics/ An	alytical Method: SW802	•	basic Farget List	Work Order: 0401122						
Lab ID	0401122-001A	0401122-002A	0401122-003A	0401122-004A	<del></del>						
Client ID	SB-15@7.5	SB-15@11.5	SB-16@7.5	SB-16@11.5	Reporting						
Matrix	S	S	S	S	DF	=1					
DF	1 80	1	20	1	S	w					
Compound		<u> </u>	entration	•	μg/Kg	μg/L					
Bromodichloromethane	ND<400	ND	ND<100	ND	5.0	NA.					
Bromoform	ND<400	ND	ND<100	ND	5.0	NA.					
Bromomethane	ND<400	ND	ND<100	ND	5.0	NA					
Carbon Tetrachloride			ND<100	ND	5.0	NA NA					
Chlorobenzene			ND<100	ND	5.0	NA					
Chloroethane	ND<400 ND ND<100		ND	5,0	NA						
2-Chloroethyl vinyl ether	ND<400 ND ND<100		ND	5.0	NA						
Chloroform	ND<400	ND	ND<100	ND	5.0	NA.					
Chloromethane	ND<400	ND	ND<100	ND	5.0	NA					
Dibromochloromethane	ND<400	ND	ND<100	ND	5.0	NA					
1,2-Dichlorobenzene	ND<400 ND ND<100		ND	5.0	NA						
1,3-Dichlorobenzene	ND<400	ND	ND<100	ND	5.0	NA					
1,4-Dichlorobenzene	ND<400	ND	ND<100	ND	5.0	NA					
Dichlorodifluoromethane	ND<400 ND ND<100		ND	5.0	NA						
1,1-Dichloroethane	ND<400 ND ND<100		ND<100	ND	5.0	NA					
1,2-Dichloroethane	ND<400	ND	ND<100	ND	5.0	NA					
1,1-Dichloroethene	ND<400	ND	ND<100	ND	5.0	NA					
cis-1,2-Dichloroethene	ND<400	ND	ND<100	ND	5.0	NA					
trans-1,2-Dichloroethene	ND<400	ND	ND<100	ND	5.0	NA					
1,2-Dichloropropane	ND<400	ND	ND<100	ND	5.0	NA					
cis-1,3-Dichloropropene	ND<400	ND	ND<100	ND	5.0	NA					
trans-1,3-Dichloropropene	ND<400	ND	ND<100	ND	5.0	NA					
Methylene chloride	ND<400	ND	ND<100	ND	5.0	NA					
1,1,2,2-Tetrachloroethane	ND<400	ND	ND<100	ND	5.0	NA					
Tetrachloroethene	ND<400	ND	ND<100	ND	5.0	NA					
1,1,1-Trichloroethane	ND<400	ND	ND<100	ND	5.0	NA					
1,1,2-Trichloroethane	ND<400	ND	ND<100	ND	5.0	NA					
Trichloroethene	ND<400	ND	ND<100	ND	5.0	NA					
Trichlorofluoromethane	oromethanc ND<400 ND ND<100		ND<100	ND	5.0	NA					
Vinyl Chloride	de ND<400 ND		ND<100	ND	5.0	NA					
	Surre	gate Recoveries	(%)								
%SS:	93.2	82.6	87.5	114							
Comments	j		j								

\* water and vapor samples and all TCLP & SPLP extracts are reported in μg/L, soil/sludge/solid samples in μg/kg, wipe samples in μg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content; k) reporting limit rasied due to insufficient sample amount.



## QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: S

WorkOrder: 0401122

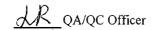
EPA Method: SW80	21B/8015Cm E	xtraction:	SW5030E	3	BatchID:	9976	s	piked Sampl	le ID: 04011	25-001A
	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	: Criteria (%)
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(btex)£	0.13	0.60	81.1	79.2	1.91	104	102	1.13	70	130
МТВЕ	ND	0.10	93.2	95.5	2.41	104	99	4.54	70	130
Benzene	ND	0.10	104	105	0.431	106	104	1.52	70	130
Toluene	ND	0.10	91.2	92.2	1.06	92.6	90.9	1.78	70	130
Ethylbenzene	ND	0.10	109	108	1.11	109	110	0.410	70	130
Xylenes	ND	0.30	100	100	0	100	100	0	70	130
%SS:	86.7	0.10	115	118	2.58	118	118	0	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



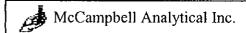
<sup>%</sup> Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

<sup>\*</sup> MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

<sup>£</sup> TPH(blex) = sum of BTEX areas from the FID.

<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.



## QC SUMMARY REPORT FOR SW8015C

Matrix: S

WorkOrder: 0401122

EPA Method: SW8015C		extraction:	SW35500	2	BatchID:	9962	S	Spiked Sample ID: 0401102-007A							
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (						
	mg/Kg mg/		% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High					
TPH(d)	ND	150	107	106	0.129	95.3	96.3	1.05	70	130					
%SS:	98.7		115	115	0	96.2	98.2	2.11	70	130					

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

\* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

### QC SUMMARY REPORT FOR SW8021B

Matrix: S

WorkOrder: 0401122

EPA Method: SW8021B	E	Extraction:	SW5030		BatchID:	9966	Spiked Sample ID: 0401108-004A								
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)					
Chlorobenzene	µg/Kg	μg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High					
	ND	50	76.8	81.2	5.65	84.5	85	0.630	70	130					
1,1-Dichloroethene	ND	50	95.1	94.4	0.741	117	111	4.92	70	130					
Trichloroethene	ND	50	77.1	77.1 82.9 7.23 97.2		97.2	89.8	7.94	70	130					
%SS:	87.9	100	77.8	87.6	11.8	86.3	79.8	7.84	70	130					

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

\* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



# **CHAIN-OF-CUSTODY RECORD**

Page 1 of 1

WorkOrder: 0401122

Report to:

Matt Meyers"

Cambria Env. Technology

5900 Hollis St, Suite A Emeryville, CA 94608 TEL: FAX:

(510) 420-0700

(510) 420-3394

ProjectNo: #522-1000-020; John Nady

PO:

Bill to:

Requested TAT:

5 days

Accounts Payable

Cambria Env. Technology

5900 Hollis St, Ste. A

Date Received:

1/13/04

Emeryville, CA 94608

Date Printed

1/13/04

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Sample ID	ClientSampID	Matrix	Collection Date	Hold	1		2	3		4	5		6		7	8		9	1	0	11		12	13	1	14	15
0401122-001	SB-15@7.5	Soil	1/12/04 1:25:00 PM	4 -			Α	Α	<del></del> -	- <del></del> - <u>-</u>		· -					T-		···	٠		· ·		<u>.</u>	1		}
0401122-002	SB-15@11.5	Soil	1/12/04 1:30:00 PM	+=-	A		A	A	<u> </u>			+		<u> </u>			+		:					<del> </del>			
0401122-003	SB-16@7.5	Soil	1/12/04 2:30:00 PM	1 🗍	Α	5 had dead \$2000	A	Α				Ť		<del> </del>			1								i		
0401122-004	SB-16@11.5	Soil	1/12/04 2:40:00 PM	1 🗆	Α		A	Α				1.							İ.,			Ì				.	

### Test Legend:

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2	G-MBTEX_S
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3	TPH(DMO)_S
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Prepared by: Melissa Valles

### Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

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Report To: Matt M					o: Ca	mbr	a							<u> </u>					Λr	ıaly	sis I	Requ	est						<u></u> 0	ther		Con	ment	.s
Company: Cambria		ntal Tech	mology, l	Inc.										4	:				:		!			İ	1					1				
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Emeryville, Ca 946			E-mail:		-		nbri	ia-er	1V.C	om					i				:	1		!			i	į	İ		í					
Tele: (510) 420-33	·		Fax: (5)											4	i				:		ĺ					İ				:				
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SAMPLE ID (Field Point Name)	LOCATION	Date	Time	Containers	Type Containers	Water	Soil	Air	ludge	Ither	ICe HC1	, ON	Other	BTEX and MTBE by EPA	TPHg/ss/d/mo by EPA 801	VOCs by FPA 8010	6 200	7.1.																
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Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/09/04
5900 Hollis St, Suite A	Nady	Date Received: 01/12/04
Emanailla CA 04608	Client Contact: Matt Meyers	Date Reported: 01/20/04
Emeryville, CA 94608	Client P.O.:	Date Completed: 01/20/04

WorkOrder: 0401109

January 20, 2004

Dear Matt:

### Enclosed are:

- 1). the results of 3 analyzed samples from your #522-1000-020; John Nady project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Angela Rydelius, Lab Manager

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com

Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/09/04
5900 Hollis St, Suite A	Nady	Date Received: 01/12/04
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Extracted: 01/13/04
Emeryvine, CN 94000	Client P.O.:	Date Analyzed: 01/13/04

### Gasoline Range (C6-C12) Stoddard Solvent Range (C9-C12) Volatile Hydrocarbons with RTEX & MTRE\*

Extraction Method: SW5030B	An	alytical Method: SW80	21B/8015Cm	Work Ord	er: 0401109
Lab ID	0401109-001A	0401109-002A	0401109-003A		
Client ID	SB-18B	SB-14A	SB-18C	Reporting	Limit for
Matrix	W	W	W	DF	
DF	1	1	1	S	w
Compound		Cone	centration	ug/kg	μg/L
TPH(g)	250	ND	300	NA	50
TPH(ss)	ND	ND	170	NA	50
МТВЕ	ND<200	ND	ND<110	NA	5.0
Benzene	0.54	0.58	0.82	NA	0.5
Toluene	ND	ND	ND	NA	0.5
Ethylbenzene	ND	ND	ND	NA	0.5
Xylenes	0.64	ND	1.3	NA	0.5
	Surro	gate Recoverie	es (%)		<del></del>
%SS:	#	118	#		
Comments	f,a	i	f,a,i		

%SS:	#	118	#	
Comments	f,a	i	f,a,i	

<sup>\*</sup> water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.



<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

	McCampbell	Analytical	Inc.
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Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/09/04
5900 Hollis St, Suite A	Nady	Date Received: 01/12/04
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Extracted: 01/12/04
Efficiency of the CAL 24000	Client P.O.:	Date Analyzed: 01/13/04

## Diesel (C10-23) and Oil (C18+) Range Extractable Hydrocarbons as Diesel and Motor Oil\*

Extraction method: S	W3510C		Analytical methods: SW8015C						
Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS			
0401109-001C	SB-18B	w	92,d,f	ND	1	93.5			
0401109-002C	SB-14A	w	ND,i	ND	1	97.1			
	· · · · · · · · · · · · · · · · · · ·								
						, <u>,</u>			

Reporting Limit for DF =1; ND means not detected at or	W	50	250	μg/L	
above the reporting limit	S	NA	NA	mg/Kg	

<sup>\*</sup> water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.



<sup>#</sup> cluttered chromatogram resulting in cocluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/09/04
5900 Hollis St, Suite A	Nady	Date Received: 01/12/04
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Extracted: 01/14/04-01/15/04
Emeryvine, CA 94000	Client P.O.:	Date Analyzed: 01/14/04-01/15/04

### Halogenated Volatile Organics by P&T and GC-ELCD (8010 Basic Target List)\*

Extraction Method: SW5030B	An	alytical Method: SW802	1B	Work Orde	Work Order: 0401109			
Lab ID	Lab ID 0401109-001B 0401109-002B 0401109-003B							
Client ID	SB-18B	SB-14A	SB-18C	Reporting Limit f				
Matrix	W	W		DF =1				
DF	200	1	100	S	W			
Compound		μg/kg	μg/L					
Bromodichloromethane	ND<100	ND	entration ND<50	NA	0.5			
Bromoform	ND<100	ND	ND<50	NA	0.5			
Bromomethane	ND<100	ND	ND<50	NA NA	0.5			
Carbon Tetrachloride	ND<100	ND	ND<50	NA NA	0.5			
Chlorobenzene	ND<100	ND	ND<50	NA NA	0.5			
Chloroethane	ND<100	ND	ND<50	NA NA	0.5			
2-Chloroethyl vinyl ether	ND<100	ND	ND<50	NA NA	0.5			
Chloroform	ND<100	ND	ND<50	NA NA	0.5			
Chloromethane	ND<100	ND	ND<50	NA NA	0.5			
Dibromochloromethane	ND<100	ND	ND<50	NA NA	0.5			
1,2-Dichlorobenzene	ND<100	ND	ND<50	NA	0.5			
1,3-Dichlorobenzene	ND<100	ND	ND<50	NA NA	0.5			
1,4-Dichlorobenzene	ND<100	ND	ND<50	NA NA	0.5			
Dichlorodifluoromethane	ND<100	ND	ND<50	NA NA	0.5			
1,1-Dichloroethane	ND<100	ND	ND<50	NA NA	0.5			
1,2-Dichloroethane	ND<100	ND	ND<50	NA NA	0.5			
1,1-Dichloroethene	ND<100	ND	ND<50	NA NA	0.5			
cis-1,2-Dichloroethene	1800	ND	1200	NA NA	0.5			
trans-1,2-Dichloroethene	ND<100	ND	ND<50	NA NA	0.5			
1,2-Dichloropropane	ND<100	ND	ND<50	. NA	0.5			
cis-1,3-Dichloropropene	ND<100	ND	ND<50	NA NA	0.5			
trans-1,3-Dichloropropene	ND<100	ND	ND<50	NA NA	0.5			
Methylene chloride	ND<100	ND	ND<50	NA NA	0.5			
1,1,2,2-Tetrachloroethane	ND<100	ND	ND<50	NA NA	0.5			
Tetrachloroethene	630	ND	300	NA NA	0.5			
1,1,1-Trichloroethane	ND<100	ND	ND<50	NA NA	0.5			
1,1,2-Trichloroethane	ND<100	ND	ND<50	NA NA	0.5			
Trichloroethene	430	ND	250	NA NA	0.5			
Trichlorofluoromethane	ND<100	ND	ND<50	NA NA	0.5			
Vinyl Chloride	ND<100	ND	ND<50	NA NA	0.5			
	Surro	gate Recoveries	<del> </del>	1 134 3				
%SS:	93.5	89.8	92.2					
Comments		i	i					

<sup>\*</sup> water and vapor samples and all TCLP & SPLP extracts are reported in μg/L, soil/słudge/solid samples in μg/kg, wipe samples in μg/wipe, product/oil/non-aqueous liquid samples in mg/L.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content; k) reporting limit rasied due to insufficient sample amount.



ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

<sup>#</sup> surrogate diluted out of range or surrogate coelutes with another peak.

### QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W

WorkOrder: 0401109

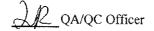
EPA Method: SW8021B/8	015Cm I	Extraction:	SW5030E	3	BatchID: 9956			Spiked Sample ID: 0401095-003A			
	Sample	Spiked	MS*	MS* MSD*		MS-MSD LCS		LCS-LCSD	Acceptance Criteria (%)		
	µg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High	
TPH(btex) <sup>£</sup>	ND	60	90.1	90.7	0.695	99.9	104	4.12	70	130	
мтве	ND	10	107	107	0	96.6	100	4.00	70	130	
Benzene	ND	10	109	108	1.62	110	114	3.57	70	130	
Toluene	ND	10	113	111	1.98	106	110	3.48	70	130	
Ethylbenzene	ND	10	115	113	1.96	114	118	3.36	70	130	
Xylenes	ND	30	117	113	2.90	107	107	0	70	130	
%SS:	117	10	111	110	0.928	105	105	0	70	130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



<sup>%</sup> Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

<sup>\*</sup> MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

<sup>£</sup> TPH(blex) = sum of BTEX areas from the FID.

<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

## QC SUMMARY REPORT FOR SW8021B

Matrix: W

WorkOrder: 0401109

EPA Method: SW8021B	Extraction: SW5030B			3	BatchID: 9945			Spiked Sample ID: 0401079-010A			
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	criteria (%)	
	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High	
Chlorobenzene	ND	10	94	94.4	0.472	96.5	96.2	0.299	70	130	
1,1-Dichloroethene	ND	10	99.2	92.6	6.89	101	98.5	2.47	70	130	
Trichlorocthene	ND	10	85.5	87.7	2.46	94.3	90.3	4.32	70	130	
%SS:	85.7	100	94.4	93.3	1.19	97.7	98.8	1.10	70	130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

<sup>%</sup> Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

<sup>\*</sup> MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

## QC SUMMARY REPORT FOR SW8015C

Matrix: W

WorkOrder: 0401109

EPA Method: SW8015C	E	Extraction:	SW35100	)	BatchID;	9946	S	piked Sampl	e ID: N/A	
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	criteria (%)
	µg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(d)	N/A	7500	N/A	N/A	N/A	93	91.7	1.38	70	130
%\$S:	N/A	100	N/A	N/A	N/A	96.3	94.7	1.68	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

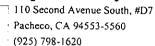
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

<sup>%</sup> Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

<sup>\*</sup> MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.



## **CHAIN-OF-CUSTODY RECORD**

Page I of i

WorkOrder: 0401109

Report to:

Jason Olson

Cambria Env. Technology

5900 Hollis St, Suite A Emeryville, CA 94608

FAX:

(510) 420-0700

(510) 420-3394 ProjectNo: #522-1000-020; John Nady

TEL:

Bill to:

Accounts Payable

Cambria Env. Technology 5900 Hollis St, Ste, A

Emeryville, CA 94608

Requested TAT:

5 days

Date Received:

1/12/04

Date Printed: 1/12/04

						Requested Tests (See legend below)																				
Sample ID	ClientSampID	Matrix	Collection Date	Hold	1		2	3		4	5	_i_	6	,	7	8		9	10	-	11	12	1;	3	14	15
0401109-001	SB-18B	Water	1/9/04 2:30:00 PM	ТП	В			С						Ţ					<del>-</del>	<u> </u>			;			
0401109-002	SB-14A	Water	1/9/04 3:00:00 PM		В	- due	A	c		<u> </u>				+			i			+-						$\vdash$
0401109-003	SB-18C	Water	1/9/04 4:30:00 PM		В	**************************************	Α							-			<u> </u>			-				- !		

#### Test Legend:

1	8010B_W
6	
11	

2	G-MBTEX_W
7	
12	

3	TPH(DMO)_W
8	
13	

4
9
14

5		·
140		
101		
15		

Prepared by: Melissa Valles

#### Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

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			SAMF	LING		ers		MAT	RIX			STHO SER	)D VED	Ebv EPv	by EPA	8010				ĺ														
	SAMPLE ID (Field Point Name)	LOCATION	Date	Time	# Containers	Type Containers	Water	Soil	Sludge	Other	Ice	HCI	Other	BTEX and MTBE by EPA 8015	TPHg/ss/d/mo by EPA 8015	VOCs by EPA 8010																		
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110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com

Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/09/04
5900 Hollis St, Suite A	Nady	Date Received: 01/12/04
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Reported: 01/20/04
Silety vine, Ort 7 1000	Client P.O.:	Date Completed: 01/20/04

WorkOrder: 0401108

January 20, 2004

Dear Matt:

#### Enclosed are:

- 1). the results of 4 analyzed samples from your #522-1000-020; John Nady project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Angela Rydelius, Lab Manager

Yours trul

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com

Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/09/04
5900 Hollis St, Suite A	Nady	Date Received: 01/12/04
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Extracted: 01/12/04
Emeryane, CA 94000	Client P.O.:	Date Analyzed: 01/13/04-01/15/04

### Gasoline Range (C6-C12), Stoddard Solvent (C9-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE\*

Extraction Method: SW5030B	An	alytical Method: SW802	1B/8015Cm		Work Ord	ет: 0401108	
Lab ID	0401108-001A	0401108-002A	0401108-003A	0401108-004A			
Client ID	SB-14@7.5	SB-14@11.5	SB-18@17.5	SB-18@20	Reporting Limit for		
Matrix	S	S	S	S	DF	=1	
DF	50	1	50	1	S	W	
Compound		Conce	entration		mg/Kg	ug/L	
TPH(g)	210	ND	1000	ND	1.0	NA	
TPH(ss)	100	ND	990	ND	1.0	NA	
МТВЕ	ND<2.5	ND	ND<2.5	ND	0.05	NA	
Benzene	0.64	ND	ND<0.25	ND	0.005	NA	
Toluene	0.39	ND	ND<0.25	ND	0.005	NA	
Ethylbenzene	1.8	ND	0.57	ND	0.005	NA	
Xylenes	5.0	ND	2.9	ND	0.005	NA	
	Surre	gate Recoveries	(%)	1			
%SS:	114	101	107	95.0			
Comments	a		е		<u> </u>		

## \* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

# cluttered chromatogram; sample peak coelutes with surrogate peak.



<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

	McCampbell	Analytical	Inc.
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Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/09/04
5900 Hollis St, Suite A	Nady	Date Received: 01/12/04
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Extracted: 01/12/04
Emerytine, CITY too	Client P.O.:	Date Analyzed: 01/12/04-01/13/04

Diesel (C10-23) and Oil (C18+) Range Extractable Hydrocarbons as Diesel a	and Motor Oil*
---	----------------

Extraction method: S	W3550C		Analytical methods: SW8015C		Work O	rder: 0401108
Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS
0401108-001A	SB-14@7.5	S	64,d	ND	1	114
0401108-002A	SB-14@11.5	S	ND	ND	1	105
0401108-003A	SB-18@17.5	S	660,d,b	ND<50	10	98.6
0401108-004A	SB-18@20	S	ND	ND	1	95.6
!						
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	· ·····					

Reporting Limit for DF =1; ND means not detected at or	W	NA	NA	ug/L
above the reporting limit	S	1.0	5.0	mg/Kg

<sup>\*</sup> water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

# cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.

Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/09/04						
5900 Hollis St, Suite A	Nady	Date Received: 01/12/04						
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Extracted: 01/12/04						
Zinery vine, Or Cy vood	Client P.O.:	Date Analyzed: 01/14/04						

### Halogenated Volatile Organics by P&T and GC-ELCD (8010 Basic Target List)\*

Extraction Method: SW5030		An	alytical Method: SW802	1B		Work Orde	er: 040110		
	Lab ID	0401108-001A	0401108-002A	0401108-003A	0401108-004A				
	Client ID	SB-14@7.5	SB-14@11.5	SB-18@17.5	SB-18@20	Reporting Limit DF =1			
	Matrix	S	S	S	S	Di <sup>*</sup>	-1		
	DF	80	1	80	1	S	W		
Compound			Conce	entration		μg/Kg	μg/L		
Bromodichloromethane		ND<400	ND	ND<400	ND	5.0	. NA		
Bromoform		ND<400	ND	ND<400	ND	5.0	NA		
Bromomethane		ND<400	ND	5.0	NA				
Carbon Tetrachloride		ND<400	ND	5.0	NA				
Chlorobenzene		ND<400	ND	5.0	NA				
Chloroethane		ND<400							
2-Chloroethyl vinyl ether		ND<400							
Chloroform		ND<400	ND	ND	5.0 5.0	NA NA			
Chloromethane		ND<400	ND	ND<400	ND	5.0	NA		
Dibromochloromethane		ND<400	ND	ND<400	ND	5.0	NA		
1,2-Dichlorobenzene		ND<400	ND	ND<400	ND	5.0	NA		
1,3-Dichlorobenzene		ND<400	ND	ND<400	ND	5.0	NA		
1,4-Dichlorobenzene		ND<400	ND	ND<400	ND	5.0	. NA		
Dichlorodifluoromethane		ND<400	ND	ND<400	ND	5.0	NA		
1,1-Dichloroethane		ND<400	ND	ND<400	ND	5.0	NA		
1,2-Dichloroethane		ND<400	ND	ND<400	ND	5.0	NA		
1,1-Dichloroethene		ND<400	ND	ND<400	ND	5.0	NA		
cis-1,2-Dichloroethene		ND<400	ND	ND<400	ND	5.0	NA		
trans-1,2-Dichloroethene		ND<400	ND	ND<400	ND	5.0	NA		
1,2-Dichloropropane		ND<400	ND	ND<400	ND	5.0	NA		
cis-1,3-Dichloropropene		ND<400	ND	ND<400	ND	5.0	NA		
trans-1,3-Dichloropropene		ND<400	ND	ND<400	ND	5.0	NA.		
Methylene chloride		ND<400	ND	ND<400	ND	5.0	NA		
1,1,2,2-Tetrachloroethane		ND<400	ND	ND<400	ND	5.0	NA		
Tetrachloroethene		ND<400	ND	ND<400	ND	5.0	NA		
1,1,1-Trichloroethane		ND<400	ND	ND<400	ND	5.0	NA		
1,1,2-Trichloroethane		ND<400	ND	ND<400	ND	5.0	NA		
Trichloroethene		ND<400	ND	ND<400	ND	5.0	NA		
Trichlorofluoromethane		ND<400	ND	ND<400	ND	5.0	NA.		
Vinyl Chloride		ND<400	ND	ND<400	ND	5.0	NA		
		Surro	gate Recoveries	(%)		<u> </u>			
%SS:		101	118	84.5	87.9				
Comments		j		i		- · · · · · · · · · · · · · · · · · · ·			

<sup>\*</sup> water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content; k) reporting limit rasied due to insufficient sample amount.

## QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: S

WorkOrder: 0401108

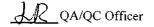
EPA Method: SW802	Extraction:	SW5030E	3	BatchID:	9961	Spiked Sample ID: 0401102-007A							
	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec	% RPD	Low	High			
TPH(btex) <sup>£</sup>	ND	0.60	100	104	4.04	101	101	0	70	130			
MTBE	ND	0.10	98	97.6	0.364	97.8	101	3.43	. 70	130			
Benzene	ND	0.10	108	801	0	107	105	2.21	70	130			
Toluene	ND	0.10	94.4	95	0.591	91	91.5	0.471	70	130			
Ethylbenzene	ND	0.10	114	114	0	108	109	0.706	70	130			
Xylenes	ND	0.30	103	103	0	100	100	0	70	130			
%SS:	90.3	0.10	115	114	0.873	116	119	2.55	70	130			

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



<sup>%</sup> Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

<sup>£</sup> TPH(btex) = sum of BTEX areas from the FID.

<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

## QC SUMMARY REPORT FOR SW8015C

Matrix: S

WorkOrder: 0401108

EPA Method: SW8015C	E	Extraction:	SW3550	0	BatchID:	9962	Spiked Sample ID: 0401102-007A							
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)				
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High				
TPH(d)	ND	150	107	106	0.129	95.3	96.3	1.05	70	130				
%SS:	98.7	100	115	115	0	96.2	98.2	2.11	70	130				

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

<sup>%</sup> Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

<sup>\*</sup> MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

### QC SUMMARY REPORT FOR SW8021B

Matrix: S

WorkOrder: 0401108

EPA Method: SW8021B	E	Extraction:	SW5030		BatchID:	9966	Spiked Sample ID: 0401108-004A						
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)			
	μg/Kg	μg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High			
Chlorobenzene	ND	50	76.8	81.2	5.65	84.5	85	0.630	70	130			
1,1-Dichloroethene	ND	50	95.1	94.4	0.741	117	111	4.92	70	130			
Trichloroethene	ND	50	77.1	82.9	7.23	97.2	89.8	7.94	70	130			
%SS:	87.9	100	77.8	87.6	11.8	86.3	79.8	7.84	70	130			

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

<sup>%</sup> Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

<sup>\*</sup> MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.



110 Second Avenue South, #D7 Pacheco, CA 94553-5560 - (925) 798-1620

## **CHAIN-OF-CUSTODY RECORD**

Page I of 1

WorkOrder: 0401108

Report to:

Jason Olson

Cambria Env. Technology

5900 Hollis St, Suite A Emeryville, CA 94608

TEL:

(510) 420-0700

FAX:

(510) 420-3394

ProjectNo: #522-1000-020; John Nadv

PO:

Bill to:

Requested TAT:

5 days

Accounts Payable

Cambria Env. Technology

5900 Hollis St. Ste. A Emeryville, CA 94608 Date Received:

1/12/04

Date Printed

1/12/04

				:							Reque	sted	Test	ts (\$	ee le	geno	l bel	iow)					,		:
Sample ID	ClientSampID	Matrix	Collection Date	Hold	1	2	3	. 4	<u>ا</u>	5	6	1	7	1	8	9		10		11	12		13	14	15
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0401108-002	SB-14@11.5	Soil	1/9/04 8:40:00 AM		Α	A	A				<del> </del>	i		-			<del></del>		<del> </del>		-	<del>-</del>			
0401108-003	SB-18@17.5	Soil	1/9/04 11:30:00 AN		A	Α	Α				<del>:                                    </del>	:		+					+-		7	+	<del></del>		+-1
0401108-004	SB-18@20	Soil	1/9/04 11:40:00 AM		A	A	A				İ	1		. <u>i.</u>			<u>L</u> .			<del>-</del>	<u> </u>				

#### Test Legend:

1	8010B_S
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2	G-MBTEX_S
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3	TPH(DMO)_S
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15		

Prepared by: Melissa Valles

#### Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

				CHAIN OF CUSTODY RECORD																												
McCAMPBELL ANALYTICAL INC. 110 2nd avenue soutil, #D7					-	ΓUI	RΝ	ΛR	JOJ	ND	TI	ME	:	C								×										
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Report To: Matt M	ne: (925) 798	-1620		111.7		ax: (9	25)	798-1	622				El	ノト	Ke	quii							)							<del>,</del>		
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Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/08/04
5900 Hollis St, Suite A	Nady	Date Received: 01/09/04
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Reported: 01/15/04
Encryvine, CA 94000	Client P.O.:	Date Completed: 01/15/04

WorkOrder: 0401089

January 15, 2004

Dear Matt:

#### Enclosed are:

- 1). the results of 3 analyzed samples from your #522-1000-020; John Nady project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Angela Rydelius, Lab Manager

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com

Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/08/04					
5900 Hollis St, Suite A	Nady	Date Received: 01/09/04					
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Extracted: 01/10/04-01/13/04					
Emeryvine, CA 94000	Client P.O.:	Date Analyzed: 01/10/04-01/13/04					

Gasoline Range (C6-C12) Stoddard Solvent Range (C9-C12) Volatile Hydrocarbons with BTEX and MTBE\*

Extraction Method: SW5030B	An	alytical Method: SW80	21B/8015Cm	Work Ord	er: 0401089
Lab ID	0401089-001A	0401089-002A	0401089-003A		<del></del>
Client ID	SB-25A	SB-25C	SB-17B	Reporting	Limit for
Matrix	W	W	W	DF	=1
DF	1	1	1	s	W
Compound		Conc	entration	ug/kg	μg/L
ТРН(g)	ND	ND	120	NA	50
TPH(ss)	ND	ND	ND	NA	50
МТВЕ	ND	ND	ND<50	NA	5.0
Benzene	ND	ND	ND	NA	0.5
Toluene	ND	ND	ND	NA	0.5
Ethylbenzene	ND	ND	ND	NA	0.5
Xylenes	ND	ND	ND	NA	0.5
27 10 10 10 10 10 10 10 10 10 10 10 10 10	Surre	gate Recoverie	5 (%)	1	
%SS:	102	113	82.2		
Comments	i	i	f,i		

<sup>\*</sup> water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.



<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

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	McCampbell	Analytical	Inc

Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/08/04
5900 Hollis St, Suite A	Nady	Date Received: 01/09/04
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Extracted: 01/09/04
Emeryvine, CA 94006	Client P.O.;	Date Analyzed: 01/09/04-01/10/04

#### Diesel (C10-23) and Oil (C18+) Range Extractable Hydrocarbons as Diesel and Motor Oil\*

Extraction method: SW	3510C		Analytical methods: SW8015C		Work O	rder: 0401089
Lab 1D	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% S:S
0401089-001C	SB-25A	w	64,b,f,i	ОИ	1	106
0401089-002C	SB-25C	w	ND,ì	ND	1	105
0401089-003C	\$B-17B	w	95,b,d,i	ND	1	103
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Reporting Limit for DF =1; ND means not detected at or	w	50	250	μg/L
above the reporting limit	S	NA	NA	mg/Kg

<sup>\*</sup> water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

<sup>#</sup> cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone: 925-798-1620 Fax: 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/08/04
5900 Hollis St, Suite A	Nady	Date Received: 01/09/04
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Extracted: 01/10/04-01/13/04
Billery time, Cri > 1000	Client P.O.:	Date Analyzed: 01/10/04-01/13/04

### Halogenated Volatile Organics by P&T and GC-ELCD (8010 Basic Target List)\*

Extraction Method: SW5030B	An	Work Order	Work Order: 0401089					
Lab ID	0401089-001B	0401089-002B	0401089-003B		······································			
Client ID	SB-25A	SB-25C	SB-17B	Reporting DF	Limit for			
Matrix	W	W	W	Dr.	=1			
DF	1	1	100	S	W			
Compound		Conce	entration	μg/kg	μg/L			
Bromodichloromethane	ND	ND	ND<50	NA	0.5			
Bromoform	ND	ND	ND<50	NA NA	0.5			
Bromomethane	ND	ND	ND<50	NA NA	0.5			
Carbon Tetrachloride	ND	ND	ND<50	NA	0.5			
Chlorobenzene	ND	ND	ND<50	NA NA	0.5			
Chlorocthane	ND	ND	ND<50	NA NA	0.5			
2-Chloroethyl vinyl ether	ND	ND	ND<50	NA NA	0.5			
Chloroform	ND	ND	ND<50	NA NA	0.5			
Chloromethane	ND	ND	ND<50	NA NA	0.5			
Dibromochloromethane	ND	ND	ND<50	NA NA	0.5			
1,2-Dichlorobenzene	ND	ND	ND<50	NA NA	0.5			
1,3-Dichlorobenzene	ND	ND	ND<50	NA NA	0.5			
1,4-Dichlorobenzene	ND	ND	ND<50	NA NA	0.5			
Dichlorodifluoromethane	ND	ND	ND<50	NA	0.5			
1,1-Dichloroethane	ND	ND	ND<50	NA NA	0.5			
1,2-Dichloroethane	ND	ND	ND<50	NA NA	0.5			
I,I-Dichloroethene	ND	ND	ND<50	NA NA	0.5			
cis-1,2-Dichloroethene	ND	ND	1100	NA NA	0.5			
trans-1,2-Dichloroethene	ND	ND	ND<50	NA NA	0.5			
1,2-Dichloropropane	ND	ND	ND<50	NA NA	0.5			
cis-1,3-Dichloropropene	ND	ND	ND<50	NA NA	0.5			
trans-1,3-Dichloropropene	ND	ND	ND<50	NA NA	0.5			
Methylene chloride	ND	ND	ND<50	NA NA	0.5			
1,1,2,2-Tetrachloroethane	ND	ND	ND<50	NA NA	0.5			
Tetrachloroethene	ND	ND	ND<50	NA NA	0.5			
1,1,1-Trichloroethane	ND	ND	ND<50	NA NA	0.5			
1,1,2-Trichloroethane	ND	ND	ND<50	NA NA	0.5			
Trichloroethene	ND	ND	ND<50	NA NA	0.5			
Trichlorofluoromethane	ND	ND	ND<50	NA NA	0.5			
Vinyl Chloride	ND	ND	ND<50	NA NA	0.5			
		gate Recoveries						
%SS:	103	83.9	90.7	<del></del>				
Comments	i	i	i					

<sup>\*</sup> water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content; k) reporting limit rasied due to insufficient sample amount.



### QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W

WorkOrder: 0401089

EPA Method: SW8021B/8015Cm Extraction: SW5030B BatchID: 9942 Spiked Sample ID: 0401076-003A											
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)	
	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High	
МТВЕ	ND	10	101	102	0.899	106	98.9	7.33	70	130	
Benzene	ND	10	111	107	4.21	107	102	5.14	70	130	
Toluene	ND	10	107	104	2.79	104	99.5	4.55	70	130	
Ethylbenzene	ND	10	115	111	3.63	112	107	4.88	70	130	
Xylenes	ND	30	107	100	6.45	107	100	6.45	70	130	
%\$\$:	101	100	104	102	1.72	99.6	116	15.6	70	130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

<sup>%</sup> Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

<sup>\*</sup> MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

<sup>£</sup> TPH(btex) = sum of BTEX areas from the FID.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

### QC SUMMARY REPORT FOR SW8015C

Matrix: W

WorkOrder: 0401089

EPA Method: SW8015C	E	Extraction:	SW35100	2	BatchID:	9946	Spiked Sample ID: N/A								
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)					
	μg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High					
TPH(d)	N/A	7500	N/A	N/A	N/A	93	91.7	1.38	70	130					
%SS:	N/A	100	N/A	N/A	N/A	96.3	94.7	1.68	70	130					

 $All \ target \ compounds \ in \ the \ Method \ Blank \ of \ this \ extraction \ batch \ were \ ND \ less \ than \ the \ method \ RL \ with \ the \ following \ exceptions:$ 

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

<sup>%</sup> Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

<sup>\*</sup> MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



### QC SUMMARY REPORT FOR SW8021B

Matrix: W

WorkOrder: 0401089

EPA Method: SW8021B	E	Extraction:	SW5030E	3	BatchID:	9945	Spiked Sample ID: 0401079-010A							
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)				
	µg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High				
Chlorobenzene	ND	10	94	94.4	0.472	96.5	96.2	0.299	70	130				
1,1-Dichloroethene	ND	10	99.2	92.6	6.89	101	98.5	2.47	70	130				
Trichloroethene	ND	10	85.5	87.7	2.46	94.3	90.3	4.32	70	130				
%SS:	85.7	100	94.4	93.3	1.19	97.7	98.8	1.10	70	130				

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

<sup>%</sup> Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

<sup>\*</sup> MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



Page 1 of 1

110 Second Avenue South, #D7 Pacheco, CA 94553-5560 (925) 798-1620

WorkOrder: 0401089

Report to:

Ron Scheele

Cambria Env. Technology

5900 Hollis St, Suite A Emeryville, CA 94608 TEL: FAX:

(510) 420-0700

(510) 420-3394

ProjectNo: #522-1000-020; John Nady

PO:

Bill to:

Requested TAT:

5 days

Accounts Payable

Cambria Env. Technology

5900 Hollis St, Ste. A

Date Received:

1/9/04

Emeryville, CA 94608

Date Printed:

1/9/04

		· · · · · · · · · · · · · · · · · · ·			Requested Tests (See legend below)																				
Sample ID	ClientSampID	Matrix	Collection Date	Hold	1	2		3	4	ξ	5	6		7	8		9	1	0	11	]	12	13	14	15
0401089-001	SB-25A	Water	1/8/04 1:00:00 PM	·	В	Α		· · ·		1					<del>-</del>	<u>-</u>		Ţ			I		<u> </u>	<u> </u>	
0401089-002	SB-25C	Water	1/8/04 3:50:00 PM	<del></del> .	В	A	(	>		i			$\top$							,			;		
0401089-003	\$B-17B	Water	1/8/04 4:45:00 PM		В	Α	(	>																	

#### Test Legend:

	1	8010B_W
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	11	

2	G-MBTEX_W
7	
12	

3	TPH(DMO)_W
8	
13	

4	
9	
14	

5	 *^	 	 ***
1	 	 	 
10	 	 	 
177277	 	 	

Prepared by: Melissa Valles

#### Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

coll.

	McCAMPBELL ANALYTICAL INC.								CHAIN OF CUSTODY RECORD																						
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	Report To: Matt M		. 100 1			o: Ca	mbri	a									Ţ	<del></del>	Inaly	sis R	eque	st	1				Oth	er	Cor	nment	3
	Company: Cambria Environmental Technology, Inc. 5900 Hollis Street, Suite A															İ						ļ	i		1 :						
	Emeryville, Ca 946			E-mail:	mme	ware/	n can	abria.	enu c	022								į						İ							
	Tele: (510) 420-33		<u>.</u>	Fax: (5				ioria-	CIIV.C	OIII							:								İ	į					
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McCampbell	Analytical	Inc

Cambria Env. Technology	Client Project ID: #522-1000-020; John Nady	Date Sampled: 01/08/04
5900 Hollis St, Suite A	Ivady	Date Received: 01/09/04
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Reported: 01/15/04
	Client P.O.:	Date Completed: 01/15/04

WorkOrder: 0401088

January 15, 2004

Dear Matt:

#### Enclosed are:

- 1). the results of 5 analyzed samples from your #522-1000-020; John Nady project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Angela Rydelius, Lab Manager

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com

Cambria Env. Technology	•	Date Sampled: 01/08/04
5900 Hollis St, Suite A	Nady	Date Received: 01/09/04
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Extracted: 01/09/04
Energyine, CA 94000	Client P.O.;	Date Analyzed: 01/10/04

Gasoline Range (C6-C12), St				arbons with BT	EX and M	TBE*
Extraction Method: SW5030B	An	Work Ord	er: 0401088			
Lab ID	0401088-001A	0401088-002A	0401088-003A	0401088-004A		
Client ID	SB-17@3.5	SB-17@7.5	SB-17@11.5	SB-17@17.5	Reporting Limit for DF = 1	
Matrix	S	S	S	S		
DF	1	1	1	1	S	· w
Compound		Conce	entration		mg/Kg	ug/L
ТРН(g)	ND	ND	ND	ND	1.0	NA
TPH(ss)	ND	ND	ND	ND	1.0	NA
МТВЕ	ND	ND	ND	ND	0.05	NA
Benzene	ND	ND	ND	ND	0.005	NA
Toluene	ND	ND	ND	ND	0.005	NA
Ethylbenzene	ND	ND	ND	ND	0.005	NA
Xylenes	ND	ND	ND	ND	0.005	NA
	Surro	gate Recoveries	(%)		<u></u> l	•
%SS:	94.4	90.8	101	94.1		Property of the second
Comments						<del></del>
				i 1		

<sup>\*</sup> water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.



<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

McCampbell Analytical	Inc.

Cambria Env. Technology	Client Project ID: #522-1000-020; John Nady	Date Sampled: 01/08/04
5900 Hollis St, Suite A	Nady	Date Received: 01/09/04
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Extracted: 01/09/04
Zino, Cir 7 1000	Client P.O.:	Date Analyzed: 01/10/04

Gasoline Range (C6-C12), Stoddard Solvent Range (C9-C12) Volatile Hydrocarbons with BTEX and MTBE\*

Extraction Method: SW5030B		Method: SW8021B/8015Cm	Work Ord	ет: 0401088
Lab ID	0401088-005A	:		
Client ID	SB-17@20		Reporting	Limit f==
Matrix	S	1111/2021	DF	
DF	1	:	S	w
Compound		Concentration	mg/Kg	ug/L
TPH(g)	ND		1.0	NA
TPH(ss)	ND		1.0	NA
МТВЕ	ND ,		0.05	NA
Benzene	ND		0.005	NA
Tolucne	ND		0.005	NA
Ethylbenzene	ND		0.005	NA
Xylenes	ND		0.005	NA
en en en en en en en en en en en en en e	Surrogate	Recoveries (%)		-
%SS:	97.9			
Comments				

<sup>\*</sup> water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.



<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

McCampbell Analytical I	Inc.
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Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/08/04
5900 Hollis St, Suite A	Nady	Date Received: 01/09/04
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Extracted: 01/09/04
Emeryvine, CA 24000	Client P.O.:	Date Analyzed: 01/09/04

### Diesel (C10-23) and Oil (C18+) Range Extractable Hydrocarbons as Diesel and Motor Oil\*

Extraction method: S\	W3550C		Analytical methods: SW80150	2	Work O	rder: 0401088
Lab ID	Client ID	Matrix	TPH(d)	ТРН(то)	DF	% SS
0401088-001A	SB-17@3.5	S	110,g,b	210	20	116
0401088-002A	SB-17@7.5	S	ND	ND	1	107
0401088-003A	SB-17@11.5	S	ND	ND	1	105
0401088-004A	SB-17@17.5	s	ND	ND	1	110
0401088-005A	SB-17@20	S	1.4,g	5.5	1	110
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Reporting Limit for DF =1; ND means not detected at or	W	NA	NA	ug/L
above the reporting limit	S	1.0	5.0	mg/Kg

<sup>\*</sup> water samples are reported in µg/L, wipe samples in µg/wipe, soit/solid/sludge samples in mg/kg, product/oit/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.



<sup>#</sup> cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com/E-mail: main@mccampbell.com/

Cambria Env. Technology	Client Project ID: #522-1000-020; John Nady	Date Sampled: 01/08/04
5900 Hollis St, Suite A	Nauy	Date Received: 01/09/04
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Extracted: 01/09/04
	Client P.O.:	Date Analyzed: 01/10/04-01/13/04

## Halogenated Volatile Organics by P&T and GC-ELCD (8010 Basic Target List)\*

Extraction Method: SW5030	An	alytical Method: SW802	1B	<b>.</b>	, Work Orde	er: 0401088
Lab ID	0401088-001A	0401088-002A	0401088-003A	0401088-004A		
Client ID	SB-17@3.5	SB-17@7.5	SB-17@11.5	SB-17@17.5	Reporting	Limit for =1
Matrix	S	S	S	S	DF	-1
DF	1	1	1	2	S	W
Compound		Conc	entration		μg/Kg	μg/L
Bromodichloromethane	ND	ND	ND	ND<10	5.0	NA
Bromoform	ND	ND	ND	ND<10	5.0	NA NA
Bromomethane	ND	ND	ND	ND<10	5.0	NA.
Carbon Tetrachloride	ND	ND	ND	ND<10	5.0	NA NA
Chlorobenzene	ND	ND	ND	ND<10	5.0	NA NA
Chloroethane	ND	ND	ND	ND<10	5.0	NA NA
2-Chloroethyl vinyl ether	ND	ND	ND	ND<10	5.0	NA NA
Chloroform	ND	ND	ND ND	ND<10	5.0	NA NA
Chloromethane	ND	ND	ND	ND<10	5.0	NA NA
Dibromochloromethane	ND	ND	ND ND	ND<10	5.0	NA NA
1,2-Dichlorobenzene	ND ND	ND	ND	ND<10	5.0	
1,3-Dichlorobenzene	ND	ND	ND	ND<10	5.0	NA NA
1,4-Dichtorobenzene	ND	ND	ND	ND<10	5.0	NA NA
Dichlorodifluoromethane	ND	ND	ND	ND<10	5.0	NA
1,1-Dichloroethane	ND	ND	ND	ND<10	5.0	NA NA
1,2-Dichloroethane	ND	ND	ND	ND<10		NA NA
1,1-Dichloroethene	ND	ND	ND	ND<10	5.0	NA NA
cis-1,2-Dichloroethene	ND ND	8.3	180		5.0	NA NA
trans-1,2-Dichloroethene	ND	ND 0.5	ND 160	170	5.0	NA
1,2-Dichloropropane	ND	ND	7.4	ND<10	5.0	NA NA
cis-1,3-Dichloropropene	ND	ND	ND /	ND<10	5.0	NA
trans-1,3-Dichloropropene	ND ND	ND	ND ND	ND<10	5.0	NA
Methylene chloride	ND ND	ND	ND ND	ND<10	5.0	NA NA
1,1,2,2-Tetrachloroethane	ND	ND		ND<10	5.0	NA
Tetrachloroethene	ND ND	ND	ND ND	ND<10	5.0	NA
1,1,1-Trichloroethane	ND	ND ND	ND	ND<10	5.0	NA
1,1,2-Trichloroethane	ND		ND	ND<10	5.0	NA
Trichloroethene	ND ND	ND ND	ND ND	ND<10	5.0	NA
Trichlorofluoromethane	ND ND		ND	ND<10	5.0	NA
Vinyl Chloride	ND ND	ND	ND	ND<10	5.0	NA
7 myr Chioride	····	ND	8.3	ND<10	5.0	NA
%SS:	102	gate Recoveries				
Comments	102	95.0	101	95.7		
_ounietts						

\* water and vapor samples and all TCLP & SPLP extracts are reported in μg/L, soil/sludge/solid samples in μg/kg, wipe samples in μg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content; k) reporting limit rasied due to insufficient sample amount.



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com

Cambria Env. Technology	,	Date Sampled: 01/08/04
5900 Hollis St, Suite A	Nady	Date Received: 01/09/04
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Extracted: 01/09/04
Emeryvine, CA 24000	Client P.O.:	Date Analyzed: 01/10/04-01/13/04

#### Halogenated Volatile Organics by P&T and GC-ELCD (8010 Basic Target List)\*

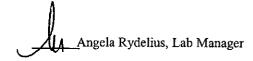
Halogenated V	olatile Organics by F	'&T and GC-ELCD (8010 Basic Ta	rget List)*	
Extraction Method: SW5030	Analytical	Method: SW8021B	Work Orde	r: 0401088
Lab ID	0401088-005A			
Client ID	SB-17@20		Reporting DF	
Matrix	S		Dr	= 1
DF	1		S	w
Compound		Concentration	μg/Kg	μg/L
Bromodichloromethane	ND		5.0	NA
Bromoform	ND		5.0	NA
Bromomethane	ND		5.0	NA
Carbon Tetrachloride	ND		5.0	NA
Chlorobenzene	ND		5.0	NA
Chloroethane	ND		5.0	NA
2-Chloroethyl vinyl ether	ND		5.0	NA
Chloroform	ND		5.0	NA
Chloromethane	ND		5.0	NA
Dibromochloromethane	ND		5.0	NA
1,2-Dichlorobenzene	ND		5.0	NA
1,3-Dichlorobenzene	ND		5.0	. NA
1,4-Dichlorobenzene	ND		5.0	NA
Dichlorodifluoromethane	ND		5.0	NA
1,1-Dichloroethane	ND		5.0	NA
1,2-Dichloroethane	ND		5.0	NA
1,1-Dichloroethene	ND		5.0	NA
cis-1,2-Dichloroethene	ND		5.0	NA
trans-1,2-Dichloroethene	ND		5.0	NA
1,2-Dichloropropane	ND		5.0	NA
cis-1,3-Dichloropropene	ND		5.0	ΝA
trans-1,3-Dichloropropene	ND		5.0	NA
Methylene chloride	ND		5.0	NA
1,1,2,2-Tetrachloroethane	ND		5.0	NA
Tetrachloroethene	ND ND		5.0	NA
1,1,1-Trichloroethane	ND		5.0	NA
1,1,2-Trichloroethane	ND		5.0	NA
Trichloroethene	ND		5.0	NA
Trichlorofluoromethane	ND		5.0	NA
Vinyl Chloride	ND		5.0	NA
		Recoveries (%)		
%SS:	98.3			
Comments				

\* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content; k) reporting limit rasied due to insufficient sample amount.



## QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: S

WorkOrder: 0401088

EPA Method: SW802	21B/8015Cm E	extraction:	SW5030F	3	BatchID:	9949	S	piked Sampl	le ID: 04010	80-003A
	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(btex) <sup>£</sup>	ND	0.60	115	98.7	15.0	101	100	1.34	70	130
мтви	ND	0.10	108	97	10.8	95.7	94.2	1.56	70	130
Benzene	ДИ	0.10	112	102	9.73	103	97.9	4.58	70	130
Toluene	ND	0.10	93.7	89.8	4.31	91.6	87.8	4.15	70	130
Ethylbenzene	ND	0.10	110	106	3.11	109	106	3.44	70	130
Xylenes	ND	0.30	100	100	0	100	99.7	0.334	70	130
%SS:	98.9	100	117	109	7.08	105	114	8.22	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

<sup>%</sup> Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

<sup>\*</sup> MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

<sup>£</sup> TPH(btex) = sum of BTEX areas from the FID.

<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

NONE

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccanpbell.com E-mail: main@mccanpbell.com

## QC SUMMARY REPORT FOR SW8015C

Matrix: S

WorkOrder: 0401088

EPA Method: SW8015C	E	Extraction:	SW35500		BatchID:	9948	S	piked Samp	le ID: 04010	080-003A
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(d)	13.57	150	98.5	98.7	0.186	91.5	92.7	1.30	70	130
%SS:	104	100	98.1	94.9	3.28	95.4	95.3	0.161	70	130

 $All \ target \ compounds \ in \ the \ Method \ Blank \ of \ this \ extraction \ batch \ were \ ND \ less \ than \ the \ method \ RL \ with \ the \ following \ exceptions:$ 

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

\* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

### QC SUMMARY REPORT FOR SW8021B

Matrix: S

WorkOrder: 0401088

EPA Method: SW8021B	Ε	Extraction:	SW5030		BatchID:	9947	S	piked Sampl	le ID: 04010	80-003A
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
	μg/Kg	μg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Chlorobenzene	ND	50	86.9	73.8	16.4	81.6	82.6	1.22	70	130
1,1-Dichloroethene	ND	50	110	101	8.57	86.4	90.3	4.43	70	130
Trichloroethene	ND	50	96.4	77.6	21.7	78.7	78.9	0.364	70	130
%SS:	102	100	94.2	88.9	5.76	94.7	94.7	0	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

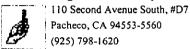
N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

<sup>%</sup> Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

<sup>\*</sup> MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.



## **CHAIN-OF-CUSTODY RECORD**

Page 1 of 1

WorkOrder: 0401088

Report to:

Ron Scheele

Cambria Env. Technology 5900 Hollis St. Suite A

Emeryville, CA 94608

TEL: FAX:

(510) 420-0700

(510) 420-3394

ProjectNo: #522-1000-020; John Nady

PO:

Bill to:

Requested TAT:

5 days

Accounts Pavable

Cambria Env. Technology

5900 Hollis St. Ste. A

Date Received:

1/9/04

Emeryville, CA 94608

Date Printed:

1/9/04

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0401088-002	SB-17@7.5	Soil	1/8/04 2:45:00 PM		Α	Α	Α	<u>_</u>		<u> </u>	i		<u> </u>			Ť				1		<u>.</u>			+
0401088-003	SB-17@11.5	Soil	1/8/04 2:50:00 PM		Α	Α	Α	!		ì			Ť			<del>-                                    </del>		$\dagger$		+					+
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#### Test Legend:

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Prepared by: Maria Venegas

#### Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

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Report To: Matt M			Bi	ll To:		nbria											Λ	nal	ysis	Reg	uest						(	Othe	<u> </u>	C	omin	ents	
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Cambria Env. Technology	Client Project ID: #522-1000-020; John Nady	Date Sampled: 01/07/04
5900 Hollis St, Suite A		Date Received: 01/08/04
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Reported: 01/13/04
	Client P.O.:	Date Completed: 01/13/04

WorkOrder: 0401070

January 13, 2004

Dear Matt:

Enclosed are:

- 1). the results of 2 analyzed samples from your #522-1000-020; John Nady project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Angela Rydelius, Lab Manager

Yours truly

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com

Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/07/04		
5900 Hollis St, Suite A	Nady	Date Received: 01/08/04		
٥,	Client Contact: Matt Meyers	Date Extracted: 01/08/04		
	Client P.O.:	Date Analyzed: 01/08/04		

### Gasoline Range (C6-C12) Stoddard Solvent Range (C9-C12) Volatile Hydrocarbons with BTEX & MTBE\*

Extraction Method: SW5030B	An	alytical Method: SW80	21B/8015Cm	Work Ord	er: 0401070	
Lab ID	0401070-001A	0401070-002A				
Client ID	SB-26A	SB-22C		Reporting	Limit for	
Matrix	W	W			DF =1	
DF	10	1		S	w	
Compound		Con	centration	ug/kg	μg/L	
TPH(g)	3000	ND		NA	50	
TPH(ss)	2600	ND		NA	50	
МТВЕ	ND<50	ND		NA	5.0	
Benzene	6.2	ND		NA	0.5	
Toluene	ND<5.0	ND		NA	0.5	
Ethylbenzene	ND<5.0	ND		NA	0.5	
Xylenes	13	ND		NA NA	0.5	

#### Surrogate Recoveries (%)

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Comments	e.i	i		
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<sup>\*</sup> water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in μg/wipe, product/oil/non-aqueous liquid samples in mg/L.

<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

	McCampbell Analytical	Inc.
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Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/07/04			
5900 Hollis St, Suite A	Nady	Date Received: 01/08/04			
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Extracted: 01/08/04			
Zimeryvine, Cri v vooo	Client P.O.:	Date Analyzed: 01/09/04			

### Diesel (C10-23) and Oil (C18+) Range Extractable Hydrocarbons as Diesel and Motor Oil\*

Extraction method: SW3510C			Analytical methods: SW8015C	Work C	Work Order: 0401070		
Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS	
0401070-001B	SB-26A	w	5300,d,g,i	1000	1	103	
0401070-002B	SB-22C	w	110,b,i	ND	1	102	
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Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	250	μg/L
	S	NA	NA	mg/Kg

<sup>\*</sup> water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.



<sup>#</sup> cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

Cambria Env. Technology	,	Date Sampled: 01/07/04
5900 Hollis St, Suite A	Nady	Date Received: 01/08/04
Emeravilla CA 94608	Client Contact: Matt Meyers	Date Extracted: 01/09/04
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 01/09/04

### Halogenated Volatile Organics by P&T and GC-ELCD (8010 Basic Target List)\*

Extraction Method: SW5030B	-	alytical Method: SW8021B	CD (0010 Dasie Targe	,	r: 0401070
Lab ID	0401070-001C	0401070-002C			
Client ID	SB-26A	SB-22C		Reporting	Limit for =1
Matrix	W	W		Dr	1
DF	10	1		S	W
Compound		Concentr	ation	μg/kg	μg/L
Bromodichloromethane	ND<5.0	ND		NA	0.5
Bromoform	ND<5.0	ND		NA	0.5
Bromomethane	ND<5.0	ND		NA	0.5
Carbon Tetrachloride	ND<5.0	ND		NA	0.5
Chlorobenzenc	ND<5.0	ND		NA	0.5
Chloroethane	ND<5.0	ND		NA NA	0.5
2-Chloroethyl vinyl ether	ND<5.0	ND		NA NA	0.5
Chloroform	ND<5.0	ND		NA	0.5
Chloromethane	ND<5.0	ND		NA	0.5
Dibromochloromethane	ND<5.0	ND		NA NA	0.5
1,2-Dichlorobenzene	ND<5.0	ND		NA	0.5
1,3-Dichlorobenzene	ND<5.0	ND		NA NA	0.5
1,4-Dichlorobenzene	ND<5.0	ND		NA	0.5
Dichlorodifluoromethane	ND<5.0	ND		NA	0.5
1,1-Dichloroethane	ND<5.0	ND		NA	0.5
1,2-Dichloroethane	ND<5.0	ND		NA NA	0.5
1,1-Dichloroethene	.ND<5.0	ND		NA	0.5
cis-1,2-Dichloroethene	ND<5.0	ND		NA	0.5
trans-1,2-Dichloroethene	ND<5.0	ND		NA NA	0.5
1,2-Dichloropropane	ND<5.0	ND		NA NA	0.5
cis-1,3-Dichloropropene	ND<5.0	ND		NA	0.5
trans-1,3-Dichloropropene	ND<5.0	ND		NA	0.5
Methylene chloride	ND<5.0	ND		NA NA	0.5
1,1,2,2-Tetrachloroethane	ND<5.0	ND		NA	0.5
Tetrachloroethene	ND<5.0	ND		NA	0.5
1,1,1-Trichloroethane	ND<5.0	ND		NA NA	0.5
1,1,2-Trichloroethane	ND<5.0	ND		NA	0.5
Trichloroethene	ND<5.0	ND		NA	0.5
Trichlorofluoromethane	ND<5.0	ND		NA	0.5
Vinyl Chloride	ND<5.0	ND		NA	0.5
	Surr	gate Recoveries (%	)		
%SS:	110	97.5			
Comments	j,i	i			

<sup>\*</sup> water and vapor samples and all TCLP & SPLP extracts are reported in μg/L, soil/sludge/solid samples in μg/kg, wipe samples in μg/wipe, product/oil/non-aqueous liquid samples in mg/L.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content; k) reporting limit rasied due to insufficient sample amount.



ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

<sup>#</sup> surrogate diluted out of range or surrogate coelutes with another peak.

### OC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W

WorkOrder: 0401070

EPA Method: SW80	21B/8015Cm E	Extraction:	SW5030B		BatchID:	9933	Spiked Sample ID: 0401073-005A									
	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)						
	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High						
TPH(btex)£	66.45	60	84.7	81.4	1.71	93.3	94.9	1.66	70	130						
MTBE	ND	10	118	116	1.44	98.7	101	1.93	70	130						
Benzene	ND	10	113	111	2.08	108	109	0.775	70	130						
Toluene	ND	10	115	113	1.93	112	110	1.21	70	130						
Ethylbenzene	ND	10	115	107	7.38	111	111	0	70	130						
Xylenes	1.09	30	116	113	2.82	110	110	0	70	130						
%SS:	118	100	112	113	0.562	111	110	0.776	70	130						

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

<sup>%</sup> Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

<sup>\*</sup> MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

<sup>£</sup> TPH(btex) = sum of BTEX areas from the FID.

<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

### QC SUMMARY REPORT FOR SW8015C

Matrix: W

WorkOrder: 0401070

EPA Method: SW8015C	E	Extraction:	SW35100		BatchID:	9928	s	Spiked Sample ID: N/A						
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)				
	µg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High				
TPH(d)	N/A	7500	N/A	N/A	N/A	99	99.8	0.799	70	130				
%SS:	N/A	100	N/A	N/A	N/A	101	100	1.15	70	130				

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

\* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

### QC SUMMARY REPORT FOR SW8021B

Matrix: W

WorkOrder: 0401070

EPA Method: SW8021B	E	Extraction:	SW5030	3	BatchID:	9915	S	Spiked Sample ID: 0401029-001B							
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%					
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High					
Chlorobenzene	ND	10	97.1	96.2	0.872	99.2	102	2.38	70	130					
1,1-Dichloroethene	ND	10	105	102	2.76	110	105	4.30	70	130					
Trichloroethene	ND	10	90.1	94	4.28	94	89.9	4.47	70	130					
%SS:	105	100	105	110	4.62	109	108	1.43	70	. 130					

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS ≃ Laboratory Control Sample; LCSD ≃ Laboratory Control Sample Duplicate; RPD ≈ Relative Percent Deviation.

% Recovery = 100  $^{\bullet}$  (MS-Sample) / (Amount Spiked); RPD = 100  $^{\star}$  (MS  $^{\bullet}$  MSD) / ((MS  $^{+}$  MSD) / 2).

\* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

# **CHAIN-OF-CUSTODY RECORD**

of I

110 Second Avenue South, #D7 Pacheco, CA 94553-5560 (925) 798-1620

WorkOrder: 0401070

Report to:

Ron Scheele

Cambria Env. Technology

5900 Hollis St, Suite A Emeryville, CA 94608

TEL: FAX: (510) 420-0700

(510) 420-3394

ProjectNo: #522-1000-020; John Nady

PO:

Bill to:

Accounts Payable

Cambria Env. Technology

5900 Hollis St, Ste. A Emeryville, CA 94608 Requested TAT:

5 davs

Date Received: 1/8/04

Date Printed:

1/8/04

					Requested Tests (See legend below)																				
Sample ID	ClientSampID	Matrix	Collection Date	Hold	1		2	3	4		5	<u> </u>	6	7	1	8	9	10	)	11	1	2	13	14	15
0401070-001	SB-26A	Water	1/7/04 10:10:00 AM		C		A	В				Τ-		<del>-</del>			 	T			Ţ. <b>-</b>				
0401070-002	SB-22C	Water	1/7/04 4:20:00 PM		С	,	Α	В	-35					i				İ	i						

#### Test Legend:

1	8010B_W	
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11		

2	G-MBTEX_	W
7		
12		

3	TPH(DMO)_W
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Prepared by: Melissa Valles

#### Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

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	ne: (925) 798	-1620		· · · · · · · · ·	Fax: (925) 798-1622					15	יע	Re	dun						()							T				
Report To: Matt N		. 1			To: Cambria				-	1	:		A	naly.	sis R	eque	st		Ţ.	-			Othe	r	Com	omments				
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5900 Hollis Street Emeryville, Ca 94			77 21.				.1 *.						-		1 1	i	:													
Tele: (510) 420-3		· · · · · · · · · · · · · · · · · · ·	E-mail: Fax: (51				noria	-en	v.cor	11			-	,			i								-	i	:		İ	
Project #:522-1000			Project 1				dv.			•			-															Ì		
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Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/07/04
5900 Hollis St, Suite A	Nady	Date Received: 01/08/04
Emorgaille CA 04609	Client Contact: Matt Meyers	Date Reported: 01/13/04
Emeryville, CA 94608	Client P.O.:	Date Completed: 01/13/04

WorkOrder: 0401069

January 13, 2004

Dear Matt:

#### Enclosed are:

- 1). the results of 5 analyzed samples from your #522-1000-020; John Nady project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Angela Rydelius, Lab Manager

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com/E-mail: main@mccampbell.com/

Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/07/04
Cambra Env. Fediziology	Nady	
5900 Hollis St, Suite A		Date Received: 01/08/04
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Extracted: 01/08/04
Emeryonic, CA 94000	Client P.O.:	Date Analyzed: 01/09/04

### Gasoline Range (C6-C12) Stoddard Solvent Range (C9-C12) Volatile Hydrocarbons with BTEX & MTBE\*

Extraction Method: SW5030B	An	alytical Method: SW802	1B/8015Cm		Work Ord	er: 0401069
Lab ID	0401069-001A	0401069-002A	0401069-003A	0401069-004A		
Client ID	SB-26@7.5	SB-26@11.5	SB-22@3.0	SB-22@6.0	Reporting Limit for	
Matrix	S	S	S	S	DF	=1
DF	40	40	1	40	S	W
Compound		Conc	entration		mg/Kg	ug/L
TPH(g)	240	180	ND	410	1.0	NA
TPH(ss)	220	98	ND	220	1.0	NA
мтве	ND<2.0	ND<2.0	ND <sub>.</sub>	ND<2.0	0.05	NA
Benzene	ND<0.20	ND<0.20	ND	ND<0.20	0.005	NA
Tolucne	ND<0.20	ND<0.20	ND	ND<0.20	0.005	NA
Ethylbenzene	ND<0.20	ND<0.20	ND	ND<0.20	0.005	NA
Xylenes	ND<0.20	0.33	ND	0.67	0.005	NA
	Surr	ogate Recoveries	6 (%)			
%SS:	98.2	94.4	90.8	83.2		
Comments	е	e		е		

<sup>\*</sup> water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; c) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

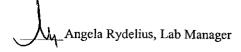
110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com

Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/07/04
5900 Hollis St, Suite A	Nady	Date Received: 01/08/04
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Extracted: 01/08/04
Enteryvine, CA 94008	Client P.O.:	Date Analyzed: 01/09/04

Gasoline Range (C6-C12) Stoddard Solvent Range (C9-C12) Volatile Hydrocarbons with BTEX & MTBE\*

Extraction Method: SW5030B	Analytical N	Method: SW8021B/8015Cm	Work Orde	er: 0401069
Lab ID	0401069-005A			
Client ID	SB-22@9.0		Reporting	
Matrix	S		DF	=1
DF	40	; ;	S	W
Compound		Concentration	mg/Kg	ug/L
TPH(g)	400		1.0	NA
TPH(ss)	220		1.0	NA
МТВЕ	ND<2.0		0.05	NA
Benzene	ND<0.20		0.005	NA
Toluene	ND<0.20		0.005	NA
Ethylbenzene	ND<0.20		0.005	NA
Xylenes	0.77		0.005	NA
	Surrogate l	Recoveries (%)		
%SS:	83.3			
Comments	е			<del></del>

<sup>\*</sup> water and vapor samples and all TCLP & SPLP extracts are reported in μg/L, soil/sludge/solid samples in mg/kg, wipe samples in μg/wipe, product/oil/non-aqueous liquid samples in mg/L.



<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

ıc.

Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/07/04
5900 Hollis St, Suite A	Nady	Date Received: 01/08/04
T	Client Contact: Matt Meyers	Date Extracted: 01/08/04
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 01/08/04-01/09/04

### Diesel (C10-23) and Oil (C18+) Range Extractable Hydrocarbons as Diesel and Motor Oil\*

Extraction method: SW3550C			Analytical methods: SW8015C		Work Order: 0401069		
Lab ID	Client 1D	Matrix	TPH(d)	TPH(mo)	DF	% SS	
0401069-001A	SB-26@7.5	S	150,d,b	6.8	1	102	
0401069-002A	SB-26@11.5	S	67,d,b	ND	1	114	
0401069-003A	SB-22@3.0	S	1.1,6	ND	1	110	
0401069-004∧	SB-22@6.0	S	230,d,b,g	11	1	99.6	
0401069-005A	SB-22@9.0	S	150,d,b	6.7	1	102	
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Reporting Limit for DF =1;	W	NA	NA	ug/L
ND means not detected at or above the reporting limit	S	1.0	5.0	mg/Kg

<sup>\*</sup> water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

<sup>#</sup> cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant;; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com

Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/07/04
5900 Hollis St, Suite A	Nady	Date Received: 01/08/04
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Extracted: 01/08/04
Emeryvine, CA 94000	Client P.O.:	Date Analyzed: 01/09/04

#### Halogenated Volatile Organics by P&T and GC-ELCD (8010 Basic Target List)\*

Extraction Method: SW5030	An	Work Order: 0401069				
Lab ID	0401069-001A	0401069-002A	0401069-003A	0401069-004A		
Client ID	SB-26@7.5	SB-26@11.5	SB-22@3.0	SB-22@6.0	Reporting DF	
Matrix	S	S	S	S	, Di	-1
DF	20	10	1	80	S	W
Compound		Conc	entration		μg/Kg	μg/L
Bromodichloromethane	ND<100	ND<50	ND	ND<400	5.0	NA
Bromoform	ND<100	ND<50	ND	ND<400	5.0	NA
Bromomethane	ND<100	ND<50	ND	ND<400	5.0	NA
Carbon Tetrachloride	ND<100	ND<50	ND	ND<400	5.0	NA
Chlorobenzene	ND<100	ND<50	ND	ND<400	5.0	NA
Chloroethane	ND<100	ND<50	ND	ND<400	5.0	NA
2-Chloroethyl vinyl ether	ND<100	ND<50	ND	ND<400	5.0	NA
Chloroform	ND<100	ND<50	ND	ND<400	5.0	NA
Chloromethane	ND<100	ND<50	ND	ND<400	5.0	NA
Dibromochloromethane	ND<100	ND<50	ND	ND<400	5.0	NA
1,2-Dichlorobenzene	ND<100	ND<50	ND	ND<400	5.0	NA
1,3-Dichlorobenzene	ND<100	ND<50	ND	ND<400	5.0	NA
1,4-Dichlorobenzene	ND<100	ND<50	ND	ND<400	5.0	NA
Dichlorodifluoromethane	ND<100	ND<50	ND	ND<400	5.0	NA
1,1-Dichloroethane	ND<100	ND<50	ND	ND<400	5.0	NA
1,2-Dichloroethane	ND<100	ND<50	ND	ND<400	5.0	NA
1,1-Dichloroethene	ND<100	ND<50	ND	ND<400	5.0	NA
cis-1,2-Dichloroethene	ND<100	ND<50	ND	ND<400	5.0	NA
trans-1,2-Dichloroethene	ND<100	ND<50	ND	ND<400	5.0	NA
1,2-Dichloropropane	ND<100	ND<50	ND	ND<400	5.0	NA
cis-1,3-Dichloropropene	ND<100	ND<50	ND	ND<400	5.0	NA
trans-1,3-Dichloropropene	ND<100	ND<50	ND	ND<400	5.0	NA
Methylene chloride	ND<100	ND<50	ND	ND<400	5.0	NA
1,1,2,2-Tetrachloroethane	ND<100	ND<50	ND	ND<400	5.0	NA
Tetrachloroethene	ND<100	ND<50	ND	ND<400	5.0	NA
1,1,1-Trichloroethane	ND<100	ND<50	ND	ND<400	5.0	NA
1,1,2-Trichloroethane	ND<100	ND<50	ND	ND<400	5.0	NA
Trichloroethene	ND<100	ND<50	ND	ND<400	5.0	NA
Trichlorofluoromethane	ND<100	ND<50	ND	ND<400	5.0	NA
Vinyl Chloride	ND<100	ND<50	ND	ND<400	5.0	NA
		ogate Recoverie	s (%)			
%SS:	105	106	106	104		
Comments	j	j		j		

<sup>\*</sup> water and vapor samples and all TCLP & SPLP extracts are reported in μg/L, soil/sludge/solid samples in μg/kg, wipe samples in μg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content; k) reporting limit rasied due to insufficient sample amount.



<sup>#</sup> surrogate diluted out of range or surrogate coelutes with another peak.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com

Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/07/04
5900 Hollis St, Suite A	Nady	Date Received: 01/08/04
C	Client Contact: Matt Meyers	Date Extracted: 01/08/04
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 01/09/04

Extraction Method: SW5030	= :	&T and GC-ELCD (8010 Basic T Method: SW8021B	Work Orde	т· 0401069
		Medica. 3 W 6021D	1	
Lab ID	0401069-005A		Reporting	Limit for
Client ID	SB-22@9.0		DF	= l
Matrix	S			
DF	20		S	W
Compound		μg/Kg	μg/L	
Bromodichloromethane	ND<100		5.0	NA
Bromoform	ND<100		5.0	NA
Bromomethane	ND<100		5.0	NA
Carbon Tetrachloride	ND<100		5.0	NA
Chlorobenzene	ND<100		5.0	NA
Chloroethane	ND<100		5.0	NA
2-Chloroethyl vinyl ether	ND<100		5.0	NA
Chloroform	ND<100		5.0	NA
Chloromethane	ND<100		5.0	NA
Dibromochloromethane	ND<100		5.0	NA
1.2-Dichlorobenzene	ND<100		5.0	NA
1,3-Dichlorobenzene	ND<100		5.0	NA
1,4-Dichlorobenzene	ND<100		5.0	NA
Dichlorodifluoromethane	ND<100		5.0	NA
1,1-Dichloroethane	ND<100		5.0	NA
1,2-Dichloroethane	ND<100		5.0	NA
1,1-Dichloroethene	ND<100		5.0	NA
cis-1,2-Dichloroethene	ND<100		5.0	NA
trans-1,2-Dichloroethene	ND<100		5.0	NA
1,2-Dichloropropane	ND<100		5.0	NA
cis-1,3-Dichloropropene	ND<100		5.0	NA
trans-1,3-Dichloropropene	ND<100		5.0	NA
Methylene chloride	ND<100		5.0	NA
1,1,2,2-Tetrachloroethane	ND<100		5.0	NA
Tetrachloroethene	ND<100		5.0	NA
I,1,1-Trichloroethane	ND<100		5.0	NA
1,1,2-Trichloroethane	ND<100		5.0	NA
Trichloroethene	ND<100		5.0	NA
Trichlorofluoromethane	ND<100		5.0	NA
Vinyl Chloride	ND<100		5.0	NA

<sup>•</sup> water and vapor samples and all TCLP & SPLP extracts are reported in μg/L, soil/sludge/solid samples in μg/kg, wipe samples in μg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

105

# surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content; k) reporting limit rasied due to insufficient sample amount.

Angela Rydelius, Lab Manager

%SS:

### QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: S

WorkOrder: 0401069

EPA Method: SW80	)21B/8015Cm E	xtraction:	: SW5030B BatchID: 9930			Spiked Sample ID: 0401054-002A				
	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	: Criteria (%)
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(btex) <sup>£</sup>	ND	0.60	109	98.4	9.94	96	100	4.23	70	130
MTBE	ND	0.10	102	94.1	7.83	93.3	94.5	1.28	70	130
Benzene	ND	0.10	103	102	0.782	101	105	3.47	70	130
Toluene	ND	0.10	91.6	87.7	4.30	88.2	93.3	5.56	70	130
Ethylbenzene	ND	0.10	106	105	0.743	103	110	7.13	70	130
Xylenes	0.01	0.30	95	91.3	3.75	96.7	103	6.67	70	130
%SS:	98.0	100	103	100	2.96	111	116	4.41	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

<sup>%</sup> Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

<sup>\*</sup>MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

<sup>£</sup> TPH(blex) = sum of BTEX areas from the FID.

<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

## QC SUMMARY REPORT FOR SW8015C

Matrix: S

WorkOrder: 0401069

EPA Method: SW8015C	E	xtraction:	SW3550C		BatchID:	9939	Spiked Sample ID: 0401065-002A								
	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%					
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High					
TPH(d)	ND	150	91.9	89.2	2.94	90.2	92.8	2.79	70	130					
%SS:	109	100	97.9	95.1	2.85	95.2	97.8	2.74	70	130					

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

<sup>%</sup> Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

<sup>\*</sup> MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

### OC SUMMARY REPORT FOR SW8021B

Matrix: S

WorkOrder: 0401069

EPA Method: SW8021B	E	xtraction:	SW5030		BatchID:	9920	Spiked Sample ID: 0401034-001A											
	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)								
	μg/ <b>Kg</b>	μg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec	% RPD	Low	High								
Chlorobenzene	ND	50	84	83.1	1.05	96.6	90.2	6.76	70	130								
1,1-Dichloroethene	ND	50	80.4	80.2	0.297	91.2	87.4	4.24	70	130								
Trichloroethene	ND	50	75.5	75.4	0.114	85.9	87.5	1.84	70	130								
%SS:	120	100	109	108	0.930	105	109	3.39	70	130								

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

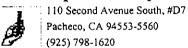
% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

\* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



# **CHAIN-OF-CUSTODY RECORD**

of 1

WorkOrder: 0401069

D.	 ^	-	•	_

Ron Scheele

Cambria Env. Technology

5900 Hollis St, Suite A

TEL: FAX: (510) 420-0700

(510) 420-3394

ProjectNo: #522-1000-020; John Nady

PO:

Bill to:

Accounts Payable

Cambria Env. Technology

5900 Hollis St, Ste. A Emervville, CA 94608 Date Received:

Requested TAT:

1/8/04

5 days

Emeryville, (	CA 94608	PO:							Eme	eryvi	lle, (	CA 9	4608	3					-	Date	Pr	inted	!:	1/8/0	14
				:				 		Re	que	sted	Test	s (Se	e le	gen	d be	low)						** *	
Sample ID	ClientSampID	Matrix	Collection Date	Hold	1	2	3	 4	5		6	1	7		3	9		10		11	· · · ·	12	13	14	15
0401069-001	SB-26@7.5	Soil	1/7/04 9:45:00 AM		Α	Α	A	 		<del></del>		<del></del>		<del></del>	 !					<del>-</del>	ī		]		: -
0401069-002	SB-26@11.5	Soil	1/7/04 9:55:00 AM		Α	Α	Α		i																1
0401069-003	SB-22@3.0	Soil	1/7/04 10:50:00 AM		Α	Α	Α												. i						
0401069-004	SB-22@6.0	Soil	1/7/04 11:45:00 AM		Α	Α	Α							Ĭ.			Ì								
0401069-005	SB-22@9.0	Soil	1/7/04 11:55:00 AM		Α	Α	A			i											ĺ				

#### Test Legend:

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Prepared by: Melissa Valles

#### Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

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Report To: Matt M		1020	Bi	II To:									+						Ana	alysi	s R	que	st							Otł	ier		Con	inei	ts	
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Emeryville, Ca 946	i08		E-mail: 1	nmey	ers@	)cain	bria.	env.	COI	ı									į	:					i					:						
Tele: (510) 420-33	14		Fax: (51)			~							_		ļ						:			-		1	1	]	i							
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Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/06/04
5900 Hollis St, Suite A	Nady	Date Received: 01/07/04
	Client Contact: Matt Meyers	Date Reported: 01/13/04
Emeryville, CA 94608	Client P.O.:	Date Completed: 01/13/04

WorkOrder: 0401049

January 13, 2004

#### Dear Matt:

#### Enclosed are:

- 1). the results of 1 analyzed sample from your #522-1000-020; John Nady project,
- 2). a QC report for the above sample
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Angela Rydelius, Lab Manager

Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/06/04		
5900 Hollis St, Suite A	Nady	Date Received: 01/07/04		
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Extracted: 01/08/04		
	Client P.O.:	Date Analyzed: 01/08/04		

Gasoline Range (C6-C12), Stoddard Solvent Range (C9-C12) Volatile Hydrocarbons with BTEX and MTBE\*

Analytical	Work Orde	Work Order: 0401049		
0401049-001A SB-18A W		Reporting DF	Limit for	
10		S	W	
1	ug/kg	μg/L		
3900		NA	50	
2100		NA	50	
ND<50		NA	5.0	
ND<5.0		NA	0.5	
ND<5.0		NA	0.5	
ND<5.0		NA	0.5	
11		NA	0.5	
Surrogat	e Recoveries (%)			
83.7			*	
e,h				
	0401049-001A  SB-18A  W 10  3900  2100  ND<50  ND<5.0  ND<5.0  11  Surrogat  83.7	SB-18A  W 10  Concentration  3900 2100 ND<50 ND<50 ND<5.0 ND<5.0 11  Surrogate Recoveries (%)	O401049-001A   SB-18A   Reporting DF	

<sup>•</sup> water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in μg/wipe, product/oil/non-aqueous liquid samples in mg/L.

<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; c) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com

Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/06/04		
5900 Hollis St, Suite A	Nady	Date Received: 01/07/04		
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Extracted: 01/07/04		
	Client P.O.:	Date Analyzed: 01/08/04		

### Diesel (C10-23) and Oil (C18+) Range Extractable Hydrocarbons as Diesel and Motor Oil\*

Extraction method:	SW3510C		Analytical methods: SW8015C	Work Order: 0401049		
Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS
0401049-001B	SB-18A	w	11,000,d,h	ND<2500	10	107
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Reporting Limit for DF =1;	w	50	250	μg/L
ND means not detected at or above the reporting limit	S	NA	NA	mg/Kg

<sup>\*</sup> water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.



<sup>#</sup> cluttered chromatogram resulting in cocluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone: 925-798-1620 Fax: 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/06/04		
5900 Hollis St, Suite A	Nady	Date Received: 01/07/04		
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Extracted: 01/08/04		
	Client P.O.:	Date Analyzed: 01/08/04		

### Halogenated Volatile Organics by P&T and GC-ELCD (8010 Basic Target List)\*

Extraction Method: SW5030B	·	Method: SW8021B	Work Orde	r: 0401049
Lab ID Client ID Matrix	0401049-001C SB-18A W		Reporting	
DF	5		s	w
Compound		Concentration	μg/kg	μg/L
Bromodichloromethane	ND<2.5		NA	0.5
Bromoform	ND<2.5		NA NA	0.5
Bromomethane	ND<2.5		NA	0.5
Carbon Tetrachloride	ND<2.5		NA	0.5
Chlorobenzene	ND<2.5		NA	0.5
Chloroethane	ND<2.5		NA	0.5
2-Chloroethyl vinyl ether	ND<2.5		NA	0.5
Chloroform	ND<2.5		NA	0.5
Chloromethane	ND<2.5		NA	0.5
Dibromochloromethane	ND<2.5		NA	0.5
1,2-Dichlorobenzene	ND<2.5		NA	0.5
1,3-Dichlorobenzene	ND<2.5		NA	0.5
1,4-Dichlorobenzene	ND<2.5		NA	0.5
Dichlorodifluoromethane	ND<2.5		NA	0.5
1,1-Dichloroethane	ND<2.5		NA NA	0.5
1,2-Dichloroethane	ND<2.5		NA	0.5
1,1-Dichloroethene	ND<2.5		NA	0.5
cis-1,2-Dichloroethene	ND<2.5		NA	0.5
trans-1,2-Dichloroethene	ND<2.5		NA	0.5
1,2-Dichloropropane	ND<2.5		NA	0.5
cis-1,3-Dichloropropene	ND<2.5		NA	0.5
trans-1,3-Dichloropropene	ND<2.5		NA	0.5
Methylene chloride	ND<2.5		NA	0.5
1,1,2,2-Tetrachloroethane	ND<2.5		NA	0.5
Tetrachloroethene	ND<2.5		NA	0.5
1,1,1-Trichloroethane	ND<2.5		NA	0.5
1,1,2-Trichloroethane	ND<2.5		NA	0.5
Trichloroethene	ND<2.5		NA	0.5
Trichlorofluoromethane	ND<2.5		NA	0.5
Vinyl Chloride	ND<2.5		NA	0.5
	Surrogate	Recoveries (%)		
%SS:	101			
Comments	j,h			

<sup>\*</sup> water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

Angela Rydelius, Lab Manager

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

<sup>#</sup> surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content; k) reporting limit rasied due to insufficient sample amount.

## QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W

WorkOrder: 0401049

EPA Method:	SW8021B/8015Cm	Extraction:	SW5030B		BatchID:	9929	S	piked Sampl	e ID: 04010	055-001A
	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)
	µg/L	µg/L	% Rec	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(btex) <sup>£</sup>	ND	60	107	104	2.85	90.8	97.7	7.25	70	. 130
мтве	ND	10	100	100	0	105	110	4.53	70	130
Benzene	ND	10	101	86	16.5	104	104	0	70	130
Toluene	ND	10	111	96.3	13.7	108	109	1.03	70	130
Ethylbenzene	ND	10	104	93.8	10.7	108	108	0	70	130
Xylenes	1.85	30	110	107	2.90	110	110	0	70	130
%SS:	100	100	104	97.1	6.40	109	110	0.782	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation

# cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

<sup>%</sup> Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

 $<sup>\</sup>Sigma$  TPH(blex) = sum of BTEX areas from the FID.

### QC SUMMARY REPORT FOR SW8015C

Matrix: W

WorkOrder: 0401049

EPA Method: SW8015C	E	xtraction:	SW35100		BatchID: 9928		s	Spiked Sample ID: N/A		
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(d)	N/A	7500	N/A	N/A	N/A	99	99.8	0.799	70	130
%SS:	N/A	100	N/A	N/A	N/A	101	100	1.15	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

\* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

## QC SUMMARY REPORT FOR SW8021B

Matrix: W

WorkOrder: 0401049

EPA Method: SW8021B	E	Extraction: SW5030B BatchID:			9915	915 Spiked Sample ID: 0401029-001B				
	Sample	Spiked	MS*	MSD*		LCS	LCSD % Rec.	LCS-LCSD % RPD	Acceptance Criteria (%)	
	μg/L	μg/L	% Rec.	% Rec.		% Rec.			Low	High
Chlorobenzene	ND	10	97.1	96.2	0.872	99.2	102	2.38	70	130
1,1-Dichloroethene	ND	10	105	102	2.76	110	105	4.30	70	130
Trichloroethene	ND	10	90.1	94	4.28	94	89.9	4.47	70	130
%SS:	105	100	105	110	4.62	109	108	1.43	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

\* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or language content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

# **CHAIN-OF-CUSTODY RECORD**

Page 1 of 1

110 Second Avenue South, #D7 Pacheco, CA 94553-5560 (925) 798-1620

WorkOrder: 0401049

Report to:

Ron Scheele

Cambria Env. Technology 5900 Hollis St, Suite A

Emeryville, CA 94608

TEL: (510) 420-0700

FAX:

(510) 420-3394

ProjectNo: #522-1000-020; John Nady

PO:

Bill to:

Accounts Payable

Cambria Env. Technology

5900 Hollis St, Ste. A Emeryville, CA 94608

Date Printed:

Requested TAT:

Date Received:

1/7/04

5 days

1/7/04

				Requested Tests (See legend below)
Sample ID	ClientSamplD	Matrix	Collection Date	Hold 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
0401049-001	SB-18A	Water	1/6/04 1:45:00 PM	A C A B

#### Test Legend:

1	8010B_W
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11	

2	G-MBTEX_W	1
7		-
12		-

3	TPH(DMO)_W
8	
13	

4	
9	
[14]	

5	 <b>-</b>	 		
1	 			
10	 			
15	 		 - • •	

Prepared by: Maria Venegas

#### Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

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	Report To: Matt N	<del>```'</del>		Į-	Bill To									+-			<u> </u>				ques					<b>—</b>	0	ther		Comi	nenis	$\dashv$
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	Tele: (510) 420-3			Fax: (5)					<u> </u>					-		1						Ì	•	İ					† '			
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_	SAMPLE ID (Field Point Name)	LOCATION	Date	Time	# Containers	Type Containers	Water	Soil	Sludge	Other	lce	HNO	Other	BTEX and MTBE by EPA 801	TPHg/ss/d/nxo by EPA 801 5	VOCs by EPA 8010																
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Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/06/04
5900 Hollis St, Suite A	Nady	Date Received: 01/07/04
·	Client Contact: Matt Meyers	Date Reported: 01/13/04
Emeryville, CA 94608	Client P.O.:	Date Completed: 01/13/04

WorkOrder: 0401048

January 13, 2004

#### Dear Matt:

#### Enclosed are:

- 1). the results of 7 analyzed samples from your #522-1000-020; John Nady project,
- 2). a QC report for the above samples
- 3), a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Angela Rydelius, Lab Manager

110 2nd Avenue Sonth, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com E-mail: main@nccampbell.com

Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/06/04				
5900 Hollis St, Suite A	Nady	Date Received: 01/07/04				
,	Client Contact: Matt Meyers	Date Extracted: 01/07/04				
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 01/07/04-01/09/04				

Gasoline Range (C6-C12) Stoddard Solvent Range (C9-C12) Volatile Hydrocarbons with BTEX & MTBE\*

Extraction Method: SW5030B	An	alytical Method: SW802	1B/8015Cm		Work Orde	r: 0401048	
Lab ID	0401048-001A	0401048-002A	0401048-003A	0401048-004A			
Client ID	SB-23@3	SB-23@6	SB-23@9	SB-18@3.5	Reporting Limit for DF = 1		
Matrix	S	S	S	S			
DF		1	1	1	S	W	
Compound		Conc	entration		mg/Kg	ug/L	
ТРН(g)	ND	ND	ND	ND	1.0	NA	
TPH(ss)	ND	ND	ND	ND	1.0	NA	
MTBE	ND	ND	ND	ND	0.05	NA	
Benzene	ND	ND	ND	ND	0.005	NA	
Toluene	ND	ND	ND	ND	0.005	NA	
Ethylbenzene	ND	ND	ND	ND	0.005	NA	
Xylenes	ND	ND	ND	ND	0.005	NA	
	Surr	ogate Recoverie	es (%)			************	
%SS:	90.6	91.5	93.3	96.3			
Comments							

<sup>\*</sup> water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com

Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/06/04
5900 Hollis St, Suite A	Nady	Date Received: 01/07/04
Emorgaillo CA 04609	Client Contact: Matt Meyers	Date Extracted: 01/07/04
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 01/07/04-01/09/04

### Gasoline Range (C6-C12) Stoddard Solvent Range (C9-C12) Volatile Hydrocarbons with BTEX & MTBE\*

Extraction Method: SW5030B		<del>-</del>	Analytical Method: SW8021B/8015Cm							
Lab ID	0401048-005A	0401048-006A	0401048-007A							
Client ID	SB-18@7.5	SB-18@11.5	SB-18@17	Reporting						
Matrix	S	S	S	DF	=1					
DF	40	l	40	S	w					
Compound		Conc	entration	mg/Kg	ug/L					
TPH(g)	340	6.2	2600	1.0	NA					
TPH(ss)	310	5.7	1600	1.0	NA					
МТВЕ	ND<2.0	ND	ND<2.0	0.05	NA					
Benzene	ND<0.20	ND	ND<0.20	0.005	NA					
Tolucne	ND<0.20	ND	ND<0.20	0.005	NA					
Ethylbenzene	0.31	ND	1.1	0.005	NA					
Xylenes	1.6	0.015	6.5	0.005	NA					
200 A 100 A	Surr	ogate Recoverie	s (%)							
%SS:	84.4	84.8	93.9							
Comments	е	e	e							

<sup>\*</sup> water and vapor samples and all TCLP & SPLP extracts are reported in μg/L, soil/sludge/solid samples in mg/kg, wipe samples in μg/wipe, product/oil/non-aqueous liquid samples in mg/L.

<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; c) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com

Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/06/04
5900 Hollis St, Suite A	Nady	Date Received: 01/07/04
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Extracted: 01/07/04
Lineryvine, CA 94008	Client P.O.:	Date Analyzed: 01/07/04-01/08/04

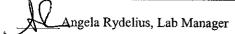
#### Diesel (C10-23) and Oil (C18+) Range Extractable Hydrocarbons as Diesel and Motor Oil\*

Extraction method: S'	W3550C		Analytical methods: SW80150		Work O	rder: 0401048
Lab ID	Client ID	Matrix	TPH(d)	ТРН(то)	DF	% SS
0401048-001A	SB-23@3	s	ND	ND	1	107
0401048-002A	SB-23@6	S	ND	ND	1	103
0401048-003A	SB-23@9	S	ND	ND	1	105
0401048-004A	SB-18@3.5	S	ND	ND	1	105
0401048-005A	SB-18@7.5	S	230,d,b	ND<50	10	117
0401048-006A	SB-18@11.5	S	8.5,d	ND	1	94.0
0401048-007A	SB-18@17	S	850,d	ND<100	20	103
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Reporting Limit for DF =1; ND means not detected at or	W	NA	NA	ug/L
above the reporting limit	S	1.0	5.0	mg/Kg

<sup>\*</sup> water samples are reported in μg/L, wipe samples in μg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC

<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.



<sup>#</sup> cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

Work Order: 0401048

Cambria Env. Technology	Client Project ID: #522-1000-020; John	Date Sampled: 01/06/04				
5900 Hollis St, Suite A	Nady	Date Received: 01/07/04				
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Extracted: 01/07/04				
	Client P.O.:	Date Analyzed: 01/08/04				

### Halogenated Volatile Organics by P&T and GC-ELCD (8010 Basic Target List)\* Analytical Method: SW8021B

Extraction Method: SW5030 Lab ID 0401048-001A 0401048-002A 0401048-003A 0401048-004A Reporting Limit for SB-18@3.5 Client ID SB-23@3 SB-23@6 SB-23@9 DF = 1S S Matrix S S W DF 1 1 1 1 μg/Kg μg/L Compound Concentration 5.0 Bromodichloromethane ND ND ND ND NΑ ND 5.0 NA ND ND ND Bromoform ND 5.0 ND ND ND NA Bromomethane ND ND ND 5.0 NΑ Carbon Tetrachloride ND ND ND ND 5.0 NA Chlorobenzene ND ND NA ND 5.0 Chloroethane ND ND ND NA 2-Chloroethyl vinyl ether ND ND ND 5.0 Chloroform ND ND ND ND 5.0 NA NA Chloromethane ND ND ND ND 5.0 ND ND 5.0 NA Dibromochloromethane ND ND ND ND 5.0 NΑ 1,2-Dichlorobenzene ND ND ND ND ND 5.0 NA 1,3-Dichlorobenzene ND ND ND ND ND 5.0 NA 1,4-Dichlorobenzene ND MD 5.0 NA ND ND Dichlorodifluoromethane ND 5.0 NΑ 1,1-Dichlorocthane ИD ND ND ND ND ND 5.0 NA 1,2-Dichloroethane ND ND ND ND ND 5.0 NA 1,1-Dichloroethene ND ND 5.0 NA ND ND cis-1,2-Dichloroethene ND ND ND 5.0 NA trans-1,2-Dichloroethene ND ND ND ND ND 5.0 NA 1,2-Dichloropropane ND ND ND ND 5.0 NΑ cis-1,3-Dichloropropene ND ND ND ND 5.0 NΑ trans-1,3-Dichloropropene ND ND ND ND 5.0 NΑ Methylene chloride 1,1,2,2-Tetrachlorocthane ND ND ND ND 5.0 NΑ

ND

ND

ND

ND

ND

ND

Surrogate Recoveries (%)

102

ND

ND

ND

ND

ND

ND

103

ND

ND

ND

ND

ND

ND

112

5.0

5.0

5.0

5.0

5.0

5.0

NΑ

NA

NA

NA

NA

NA

* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe	samples in μg/wipe,
product/oil/non-aqueous liquid samples in mg/L.	

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

ND

ND

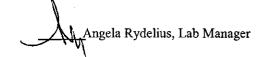
ND

ND

ND

104

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content; k) reporting limit rasied due to insufficient sample amount.



Tetrachloroethene

Trichloroethene

Vinyl Chloride

%SS:

Comments

1,1,1-Trichloroethane

1,1,2-Trichloroethane

Trichlorofluoromethane

<sup>#</sup> surrogate diluted out of range or surrogate coelutes with another peak.

Cambria Env. Technology	Date Sampled: 01/06/04					
5900 Hollis St, Suite A	Nady 00 Hollis St, Suite A					
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Extracted: 01/07/04				
Eneryvine, CA 94008	Client P.O.:	Date Analyzed: 01/08/04				

#### Halogenated Volatile Organics by P&T and GC-ELCD (8010 Basic Target List)\*

Extraction Method: SW5030	-	alytical Method: SW802	•	Wo	rk Orde	r: 0401048	
Lab ID	0401048-005A	0401048-006A	0401048-007A	T T			
Client ID	SB-18@7.5	SB-18@7.5 SB-18@11.5 SB-18@17		Rep	Reporting Limit for		
Matrix	S		DF =1				
DF	80 10 80		S	Т	W		
Compound		Conc	entration	μg/	Kg	μg/L	
Bromodichloromethane	ND<400	ND<50	ND<400	5.	0	NA	
Bromoform	ND<400	ND<50	ND<400	5.		NA	
Bromomethane	ND<400	ND<50	ND<400	5.		NA	
Carbon Tetrachloride	ND<400	ND<50	ND<400	5.		NA	
Chlorobenzene	ND<400	ND<50	ND<400	5.	0	NA	
Chloroethane	ND<400	ND<50	ND<400	5.		NA	
2-Chloroethyl vinyl ether	ND<400	ND<50	ND<400	5.		NA	
Chloroform	ND<400	ND<50	ND<400	5.		NA	
Chloromethane	ND<400	ND<50	ND<400	5.		NA	
Dibromochloromethane	ND<400	ND<50	ND<400	5.	<u></u>	NA	
1,2-Dichlorobenzene	ND<400	ND<50	ND<400	5.		NA	
1,3-Dichlorobenzene	ND<400	ND<50	ND<400	5.		NA	
1,4-Dichlorobenzene	ND<400	ND<50	ND<400	5.		NA NA	
Dichlorodifluoromethane	ND<400	ND<50	ND<400	5.1		NA	
1,1-Dichloroethane	ND<400	ND<50	ND<400	5,		NA	
1,2-Dichloroethane	ND<400	ND<50	ND<400	5.		NA	
1,1-Dichloroethene	ND<400	ND<50	ND<400	5.	·+	NA	
cis-1,2-Dichloroethene	ND<400	ND<50	ND<400	5.		NA NA	
trans-1,2-Dichloroethene	ND<400	ND<50	ND<400	5.		NA	
1,2-Dichloropropane	ND<400	ND<50	ND<400	5.0		NA	
cis-1,3-Dichloropropene	ND<400	ND<50	ND<400	5.0		NA	
trans-1,3-Dichloropropene	ND<400	ND<50	ND<400	5.0		NA	
Methylene chloride	ND<400	ND<50	ND<400	5.0	$\rightarrow$	NA	
1,1,2,2-Tetrachloroethane	ND<400	ND<50	ND<400	5.0		NA	
Tetrachloroethene	ND<400	ND<50	ND<400	5.0		NA NA	
1,1,1-Trichloroethane	ND<400	ND<50	ND<400	5.0		NA NA	
1,1,2-Trichloroethane	ND<400	ND<50	ND<400	5.0	<del>-</del>	NA.	
Trichloroethene	ND<400	ND<50	ND<400	5.0		NA NA	
Trichlorofluoromethane	ND<400	ND<50	ND<400	5.0	<del></del>	NA NA	
Vinyl Chloride	ND<400	ND<50	ND<400	5.0		NA.	
	Surro	gate Recoveries	(%)				
%SS:	106	111	104				
Comments	j	j	j				

<sup>\*</sup> water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content; k) reporting limit rasied due to insufficient sample amount.



ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

<sup>#</sup> surrogate diluted out of range or surrogate coelutes with another peak.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622

Website: www.mccampbell.com E-mail:

## QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: S

WorkOrder: 0401048

EPA Method:	SW8021B/8015Cm	Extraction:	\$W5030B		BatchID:	9917	S	piked Sampl	e ID: 04010	32-001A
	Sample	e Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(btex)£	ND	0.60	104	99.5	4.76	105	104	1.17	70	130
MTBE	ND	0.10	86.3	94.1	8.67	86.1	85.5	0.800	70	130
Benzene	ND	0.10	102	104	1.72	91.5	96	4.83	70	130
Toluene	ND	0.10	90.7	91.1	0.442	80.2	84.6	5.40	70	130
Ethylbenzene	ND ND	0.10	110	107	3.04	102	106	3.98	70	130
Xylenes	ND	0.30	100	100	0	96.3	100	3.74	70	130
%SS:	97.1	0.10	111	107	3.67	112	114	1.77	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent

QA/QC Officer

<sup>%</sup> Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

<sup>£</sup> TPH(btex) = sum of BTEX areas from the FID.

<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

NONE

### **QC SUMMARY REPORT FOR SW8015C**

Matrix: S

WorkOrder: 0401048

EPA Method: SW8015C	E	Extraction: SW3550C				9918	Spiked Sample ID: 0401032-001A				
	Sample	Spiked	MS*	MSD*	MS-MSD*	LÇS	LCSD	LCS-LCSD	Acceptance	: Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High	
TPH(d)	ND	150	92.9	91.1	1.96	103	103	0	70	130	
%SS:	102	100	99.8	94.9	4.99	107	107	0	70	130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

<sup>%</sup> Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

<sup>\*</sup> MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

## QC SUMMARY REPORT FOR SW8021B

Matrix: S

WorkOrder: 0401048

EPA Method: SW8021B	E	Extraction:	SW5030		BatchID:	9920	S	Spiked Sample ID: 0401034-001A				
	Sample	Spiked	MS*	MSD*	:MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)		
	μg/Kg	μg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High		
Chlorobenzene	ND	50	84	83.1	1.05	96.6	90.2	6.76	70	130		
1.1-Dichloroethene	ND	50	80.4	80.2	0.297	91.2	87.4	4.24	70	130		
Trichloroethene	ND	50	75.5	75.4	0.114	85.9	87.5	1.84	70	130		
	120	100	109	108	0.930	105	109	3.39	70	130		

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent

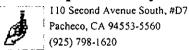
<sup>%</sup> Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



## **CHAIN-OF-CUSTODY RECORD**

Page 1 of 1

WorkOrder: 0401048

Report to:

Ron Scheele

Cambria Env. Technology

5900 Hollis St. Suite A Emeryville, CA 94608

TEL: FAX:

(510) 420-0700

(510) 420-3394 ProjectNo: #522-1000-020; John Nady

PO:

Bill to:

Accounts Pavable Cambria Env. Technology

5900 Hollis St. Ste. A

Emeryville, CA 94608

Date Received: Date Printed:

Requested TAT:

1/7/04

5 days

1/7/04

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Sample ID	ClientSampID	Matrix	Collection Date	Hold	1	2	3	4	5	6		7	8	9	10	11	12	13	<b>3</b>	14	15
0401048-001	\$B-23@3	Soil	1/6/04 9:45:00 AM		Α	Α	Α		T			:		1	i	r	1		1		1 3
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0401048-003	SB-23@9	Soil	1/6/04 10:35:00 AM		A	Α	Α			<del>-  </del>		- :		i i	T		•				
0401048-004	SB-18@3.5	Soil	1/6/04 11:40:00 AM	4 🗆	Α	Α	Α	<b>-</b>		+					1			<del>i</del>	ţ		-
0401048-005	SB-18@7.5	Soil	1/6/04 12:40:00 PM	1 🗆	Α	Α	Α						-		<del></del>		-	1			
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0401048-007	SB-18@17	Soil	1/6/04 2:45:00 PM		Α	Α	Α	<del></del> -	†					+		ļ		-	1	•	

#### Test Legend:

1	8010B_\$	
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2	G-MBTEX_S
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3	TPH(DMO)_S
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Prepared by: Maria Venegas

#### Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

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Telephon	e: (925) 798-		J, CR 9433	3-3300		ax: (9	25)	798-1	1622				E	DF	Re	equi	red	? -	٠ ٦	es_	الحقر	N	0									
Report To: Matt M			Bi	ll To	Car	nbria												Ana	llysi	s Re	ques	t	1				(	Othe	<u>r</u>	<u>C</u>	omme	nts
Company: Cambria	a Environmer	ntal Tech	nology, Ir	ıc.									ļ	İ	i i	!												:	1			
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Emeryville, Ca 946	08		E-mail: 1				oria-	env.c	om						1		1	:								Ì	ļ	-	1			
Tele: (510) 420-33			Fax: (51)										1		İ	!			i					i	ĺ	- [	1	İ		1		
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Cambria Env. Technology	Client Project ID: #522-1000-020; Nady	Date Sampled: 01/05/04
5900 Hollis St, Suite A	Systems	Date Received: 01/06/04
D 01 04600	Client Contact: Matt Meyers	Date Reported: 01/12/04
Emeryville, CA 94608	Client P.O.:	Date Completed: 01/12/04

WorkOrder: 0401034

January 12, 2004

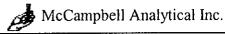
Dear Matt:

#### Enclosed are:

- 1), the results of 5 analyzed samples from your #522-1000-020; Nady Systems project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Angela Rydelius, Lab Mangager



Cambria Env. Technology	Client Project ID: #522-1000-020; Nady	Date Sampled: 01/05/04
5900 Hollis St, Suite A	Systems	Date Received: 01/06/04
Eilla CA 04609	Client Contact: Matt Meyers	Date Extracted: 01/06/04
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 01/07/04-01/09/04

Gasoline Range (C6-C12)	Stoddar Solvent Range (C9-C12) Volatile Hydrocarbons	with BTEX & MTBE*
Extraction Method: SW5030B	Analytical Method: SW8021B/8015Cm	Work Order: 0401034

Extraction Method: SW5030B	An	alytical Method: SW802	1B/8015Cm		Work Orde	er: 0401034
Lab ID	0401034-001A	0401034-002A	0401034-003A	0401034-004A		
Client ID	SB-13@6	SB-13@11.5	SB-24@3	SB-24@6	Reporting	
Matrix	S	S	S	S	DF	=1
DF	10	20	100	40	S	W
Compound		Conc	entration		mg/Kg	ug/L
TPH(g)	140	260	980	430	1.0	NA
TPH(ss)	150	260	1000	420	1.0	NA
МТВЕ	ND<0.50	ND<1.0	ND<5.0	ND<2.0	0.05	NA
Benzene	ND<0.050	ND<0.10	ND<0.50	ND<0.20	0.005	NA
Toluene	ND<0.050	ND<0.10	ND<0.50	ND<0.20	0.005	NA
Ethylbenzene	ND<0.050	ND<0.10	ND<0.50	0.24	0.005	NA
Xylenes	ND<0.050	ND<0.10	ND<0.50	ND<0.20	0.005	NA
	Surr	ogate Recoverie	s (%)	1		
%SS:	88.4	91.7	79.1	103		
Comments	e	e	e	e		

%SS:	88.4	91.7	79.1	103	
Comments	e	е	e	е	

<sup>\*</sup> water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.



<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment, j) reporting limit raised due to high MTBE content, k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

A STATE OF THE STA	McCampbell Analytical Inc	•

E-3		
Cambria Env. Technology	Client Project ID: #522-1000-020; Nady	Date Sampled: 01/05/04
5900 Hollis St, Suite A	Systems	Date Received: 01/06/04
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Extracted: 01/06/04
	Client P.O.:	Date Analyzed: 01/07/04-01/09/04

Gasoline Range (C6-C12) Stoddar Solvent Range (C9-C12) Volatile Hydrocarbons with BTEX & MTBE\*

Extraction Method: SW5030B		Method: SW8021B/8015Cm	Work Orde	:: 0401034
Lab ID	0401034-005A			
Client ID	SB-24@9		Reporting I	
Matrix	S		DF :	=!
DF	10	-	S	W
Compound		Concentration	mg/Kg	ug/L
TPH(g)	43		1.0	NA
TPH(ss)	43		1.0	NA
мтве	ND<0.50		0.05	NA
Benzene	ND<0.050		0.005	NA
Toluene	ND<0.050		0.005	NA
Ethylbenzene	ND<0.050		0.005	NA
Xylenes	ND<0.050		0.005	NA
	Surrogat	e Recoveries (%)		,
%\$S:	83.2			
Comments	e			

<sup>\*</sup> water and vapor samples and all TCLP & SPLP extracts are reported in μg/L, soil/sludge/solid samples in mg/kg, wipe samples in μg/wipe, product/oil/non-aqueous liquid samples in mg/L.



<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

A STATE OF THE STA	McCampbell	Analytical	Inc.
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Cambria Env. Technology	Client Project ID: #522-1000-020; Nady	Date Sampled: 01/05/04
5900 Hollis St, Suite A	Systems	Date Received: 01/06/04
E	Client Contact: Matt Meyers	Date Extracted: 01/06/04
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 01/06/04-01/07/04

#### Diesel (C10-23) and Oil (C18+) Range Extractable Hydrocarbons as Diesel and Motor Oil\*

Extraction method: SV	W3550C		Analytical methods: SW8015C		Work O	rder: 0401034
Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS
0401034-001A	SB-13@6	S	21,d,b	ND	1	110
0401034-002A	SB-13@11.5	S	41,d,b	ND	1	109
0401034-003A	SB-24@3	S	1300,d,b	ND<250	50	112
0401034-004A	SB-24@6	S	220,d,b	8.9	1	102
0401034-005A	SB-24@9	s	54,d,b	ND	1	119
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Reporting Limit for DF =1;	w	NA	NA	ug/L
ND means not detected at or above the reporting limit	S	1.0	5.0	mg/Kg

<sup>\*</sup> water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.



<sup>#</sup> cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.nccampbell.com E-mail: main@mccampbell.com

Cambria Env. Technology	Client Project ID: #522-1000-020; Nady	Date Sampled: 01/05/04				
5900 Hollis St, Suite A	Systems	Date Received: 01/06/04				
	Client Contact: Matt Meyers	Date Extracted: 01/06/04				
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 01/06/04-01/07/04				

## Halogenated Volatile Organics by P&T and GC-ELCD (8010 Basic Target List)\*

Extraction Method: SW5030	traction Method: SW5030 Analytical Method: SW8021B							
Lab ID	0401034-001A	0401034-002A	0401034-003A	0401034-004A	Reporting	Limit for		
Client ID	SB-13@6	SB-13@11.5	SB-24@3	SB-24@6	DF			
Matrix	S	S	: S	S				
DF	1	1	80	. 80	S	W		
Compound		Conc	entration		μg/Kg	μg/L		
Bromodichloromethane	ND	ND	ND<400	ND<400	5.0	NA		
Bromoform	ND	ND	ND<400	ND<400	5.0	NA_		
Bromomethane	ND	ND	ND<400	ND<400	5.0	NA		
Carbon Tetrachloride	ND	ND	ND<400	ND<400	5.0	NA		
Chlorobenzene	ND	ND	ND<400	ND<400	5.0	NA		
Chloroethane	ND	ND	ND<400	ND<400	5.0	NA		
2-Chloroethyl vinyl ether	ND	ND	ND<400	ND<400	5.0	NA		
Chloroform	ND	ND	ND<400	ND<400	5.0	NA		
Chloromethane	ND	ND	ND<400	ND<400	5.0	NA		
Dibromochloromethane	ND	ND	ND<400	ND<400	5.0	NA		
1,2-Dichlorobenzene	ND	ND	ND<400	ND<400	5.0	NA		
1,3-Dichlorobenzene	ND	ND	ND<400	ND<400	5.0	NA.		
1,4-Dichlorobenzene	ND	ND	ND<400	ND<400	5.0	NA		
Dichlorodifluoromethane	ND	ND	ND<400	ND<400	5.0	NA		
1,1-Dichloroethane	ND	ND	ND<400	ND<400	5.0	NA		
1,2-Dichloroethane	ND	ND	ND<400	ND<400	5.0	NA		
1,1-Dichloroethene	ND	ND	ND<400	ND<400	5.0	NA		
cis-1,2-Dichloroethene	ND	ND	ND<400	ND<400	5.0	NA		
trans-1,2-Dichloroethene	ND	ND	ND<400	ND<400	5.0	NA		
1,2-Dichloropropane	ND	ND	ND<400	ND<400	5.0	NA		
cis-1,3-Dichloropropene	ND	ND	ND<400	ND<400	5.0	NA		
trans-1,3-Dichloropropene	ND	ND	ND<400	ND<400	5.0	NA		
Methylene chloride	ND	ND	ND<400	ND<400	5.0	NA		
1,1,2,2-Tetrachloroethane	ND	ND	ND<400	ND<400	5.0	NA		
Tetrachloroethene	ND	ND	ND<400	ND<400	5.0	NA		
1,1,1-Trichloroethane	ND	ND	ND<400	ND<400	5.0	NA		
1,1,2-Trichloroethane	ND	ND	ND<400	ND<400	5.0	NA		
Trichloroethene	ND	ND	ND<400	ND<400	5.0	NA		
Trichlorofluoromethane	ND	ND	ND<400	ND<400	5.0	NA		
Vinyl Chloride	ND	ND_	ND<400	ND<400	5.0	NA		
	Suri	ogate Recoverie	es (%)					
%SS:	120	116	118	111		<u></u>		
Comments			j	j				

\* water and vapor samples and all TCLP & SPLP extracts are reported in μg/L, soil/sludge/solid samples in μg/kg, wipe samples in μg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content; k) reporting limit rasied due to insufficient sample amount.



		D . C 1.1 01/05/04
Cambria Env. Technology	Client Project ID: #522-1000-020; Nady	Date Sampled: 01/05/04
5900 Hollis St, Suite A	Systems	Date Received: 01/06/04
	Client Contact: Matt Meyers	Date Extracted: 01/06/04
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 01/06/04-01/07/04

## Halogenated Volatile Organics by P&T and GC-ELCD (8010 Basic Target List)\*

Extraction Method: SW5030	Analytical Method: SW8			
Lab ID	0401034-005A		Reporting	
Client ID	SB-24@9		DF	=1
Matrix	S			
DF	10		S	W
Compound	Con	ncentration	μg/Kg	μg/L
romodichloromethane	ND<50		5.0	NA
Bromoform	ND<50		5.0	NA
Bromomethane	ND<50		5.0	NA
Carbon Tetrachloride	ND<50		5.0	NA
Chlorobenzene	ND<50		5.0	NA
Chloroethane	ND<50		5.0	NA
-Chloroethyl vinyl ether	ND<50		5.0	NA
Chloroform	ND<50		5.0	NA
Chloromethane	ND<50		5.0	NA
Dibromochloromethane	ND<50		5.0	NA
,2-Dichlorobenzene	ND<50		5.0	NA
1,3-Dichlorobenzene	ND<50		5.0	NA
1,4-Dichlorobenzene	ND<50		5.0	NA
Dichlorodifluoromethane	ND<50		5.0	NA
1,1-Dichloroethane	ND<50		5.0	NA
1,2-Dichloroethane	ND<50		5.0	NA
1,1-Dichloroethene	ND<50		5.0	NA
cis-1,2-Dichloroethene	ND<50		5.0	NA
trans-1,2-Dichloroethene	ND<50		5.0	NA
1,2-Dichloropropane	ND<50		5.0	NA
cis-1,3-Dichloropropene	ND<50		5.0	NA
trans-1,3-Dichloropropene	ND<50		5.0	NA
Methylene chloride	ND<50		5.0	NA
1,1,2,2-Tetrachloroethane	ND<50		5.0	NA
Tetrachloroethene	ND<50		5.0	NA
1,1,1-Trichloroethane	ND<50		5.0	NA
	ND<50		5.0	NA
1,1,2-Trichloroethane	ND<50		5.0	NA
Trichloroethene	ND<50		5.0	NA
Trichlorofluoromethane	ND<50		5.0	NA
Vinyl Chloride	Surrogate Recove	ries (%)		
%\$\$:	120			
Comments				

\* water and vapor samples and all TCLP & SPLP extracts are reported in μg/L, soil/sludge/solid samples in μg/kg, wipe samples in μg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content; k) reporting limit rasied due to insufficient sample amount.

<u></u>An

### QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: S

·WorkOrder: 0401034

EPA Method: SW80	021B/8015Cm E	Extraction:	SW5030E	3	BatchID:	9917	Spiked Sample ID: 0401032-001A						
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High			
мтве	ND	0.10	86.3	94.1	8.67	86.1	85.5	0.800	70	130			
Benzene	ND	0.10	102	104	1.72	91.5	96	4.83	70	130			
Toluene	ND	0.10	90.7	91.1	0.442	80.2	84.6	5.40	70	130			
Ethylbenzene	ND	0.10	110	107	3.04	102	106	3.98	70	130			
Xylenes	ND	0.30	100	100	0	96.3	100	3.74	70	130			
%SS:	97.1	0.10	111	107	3.67	112	114	1.77	70	130			

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

<sup>%</sup> Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

<sup>£</sup> TPH(blex) = sum of BTEX areas from the FID.

<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

## QC SUMMARY REPORT FOR SW8015C

Matrix: S

WorkOrder: 0401034

EPA Method: SW8015C	Extraction: SW3550C			;	BatchID:	9918	S	Spiked Sample ID: 0401032-001A				
	Sample Spiked		MS*	MSD*	MSD* MS-MSD		LCSD	LCS-LCSD	Acceptance	Criteria (%)		
	mg/Kg	mg/Kg	% Rec	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High		
TPH(d)	ND	150	92.9	91.1	1.96	103	103	0	70	130		
%SS:	102	100	99.8	94.9	4.99	107	107	0	70	130		

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

\* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

## QC SUMMARY REPORT FOR SW8021B

Matrix: S

WorkOrder: 0401034

E	xtraction:	SW5030		BatchID:	9920	s	Spiked Sample ID: 0401034-001A					
Sample Spiked		MS*	MSD* MS-MSD		LCS	LCSD	LCS-LCSD	Acceptance Criteria (%				
	μg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High			
ND	50	84	83.1	1.05	96.6	90.2	6.76	70	130			
ND	50	80.4	80.2	0.297	91.2	87.4	4.24	70	130			
ND	50	75.5	75.4	0.114	85.9	87.5	1.84	70	130			
120	100	109	108	0.930	105	109	3.39	70	130			
	Sample  pg/Kg  ND  ND  ND	µg/Kg µg/Kg  ND 50  ND 50  ND 50	Sample         Spiked         MS*           μg/Kg         μg/Kg         % Rec.           ND         50         84           ND         50         80.4           ND         50         75.5	Sample         Spiked         MS*         MSD*           μg/Kg         μg/Kg         % Rec.         % Rec.           ND         50         84         83.1           ND         50         80.4         80.2           ND         50         75.5         75.4	Sample         Spiked         MS*         MSD*         MS-MSD           μg/Kg         μg/Kg         % Rec.         % Rec.         % RPD           ND         50         84         83.1         1.05           ND         50         80.4         80.2         0.297           ND         50         75.5         75.4         0.114	Sample         Spiked         MS*         MSD*         MS-MSD         LCS           μg/Kg         μg/Kg         % Rec.         % Rec.         % RPD         % Rec.           ND         50         84         83.1         1.05         96.6           ND         50         80.4         80.2         0.297         91.2           ND         50         75.5         75.4         0.114         85.9	Sample         Spiked         MS*         MSD*         MS-MSD         LCS         LCSD           μg/Kg         μg/Kg         % Rec.         % Rec.         % RPD         % Rec.         % Rec.           ND         50         84         83.1         1.05         96.6         90.2           ND         50         80.4         80.2         0.297         91.2         87.4           ND         50         75.5         75.4         0.114         85.9         87.5	Sample         Spiked         MS*         MSD*         MS-MSD         LCS         LCSD         LCS-LCSD           μg/Kg         μg/Kg         % Rec.         % Rec.         % RPD         % Rec.         % Rec.         % RPD           ND         50         84         83.1         1.05         96.6         90.2         6.76           ND         50         80.4         80.2         0.297         91.2         87.4         4.24           ND         50         75.5         75.4         0.114         85.9         87.5         1.84	Sample         Spiked         MS*         MSD*         MS-MSD         LCS         LCSD         LCS-LCSD         Acceptance           μg/Kg         μg/Kg         % Rec.         % Rec.         % RPD         % Rec.         % Rec.         % RPD         Low           ND         50         84         83.1         1.05         96.6         90.2         6.76         70           ND         50         80.4         80.2         0.297         91.2         87.4         4.24         70           ND         50         75.5         75.4         0.114         85.9         87.5         1.84         70			

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

<sup>%</sup> Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

<sup>\*</sup> MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

## **CHAIN-OF-CUSTODY RECORD**

Page 1 of 1

110 Second Avenue South, #D7 Pacheco, CA 94553-5560 (925) 798-1620

WorkOrder: 0401034

Report to:

Sample ID

Mary C. Holland-Ford Cambria Env. Technology

ClientSampID

5900 Hollis St, Suite A Emeryville, CA 94608 TEL: FAX:

(510) 420-0700 (510) 420-3394

Collection Date Hold 1 2

ProjectNo: #522-1000-020; Nady Systems

PO:

Matrix

Bill to:

Accounts Payable

Cambria Env. Technology

5900 Hollis St, Ste. A Emeryville, CA 94608 Requested TAT:

5 days

AT: 5

Date Received: 1/6/04

Date Printed:

1/6/04

Requested Tests (See legend below)
4 5 6 7 8 9 10 11 12 13 14 15

0401034-001	SB-13@6	Soil	1/5/04 1:10:00 PM	Α	Α	A	\	i						 	<u> </u>	:
0401034-002	SB-13@11.5	Soil	1/5/04 1:25:00 PM	A	Α		1	1		!		!	!	 <u>:</u>		:
0401034-003	SB-24@3	Soil	1/5/04 2:00:00 PM	Α	Α	F	\	1		i	<u>į</u>		. 1	 		:
0401034-004	SB-24@6	Soil	1/5/04 2:55:00 PM	Α	Α		\									
0401034-005	SB-24@9	Soil	1/5/04 3:10:00 PM	Α	Α	A		:	 		 1	. :	1		1	

#### Test Legend:

1	 8010B	_S	
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2	G-MBTEX_S	3
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3	TPH(DM	O)_S	
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13 ]			

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14	:	15	

Prepared by: Melissa Valles

#### Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

cer

McCAMPBELL ANALYTICAL INC.  110 2"d AVENUE SOUTH, #D7  PACHECO, CA 94553-5560  Telephone: (925) 798-1620  Fax: (925) 798-1622											CHAIN OF CUSTODY RECORD  TURN AROUND TIME:   RUSH 24 HOUR 48 HOUR 5 DAY  EDF Required?  Yes No																				
Telephone: (925) 798-	1620					5) 79	8-16	22			Analysis Request													T	(	Other	 l	Comments			
eport To: Matt Meyers				Can	ibria																		- 1	_	:		ĺ				
Company: Cambria Environme	ntal Techn	ology, In	c								-	ŠŽ	(F)			!		ļ			i	ï	į		i	i		1			
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Tele: (510) 420-3314 Fax: (510) 420-9170											8015)/ MTBE	1	520	41.8	_	i	į			EPA 625 / 8270 48310	į		İ		Ì		1				
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	SAMP.	LING		Fax: (925) 798-1622  To: Cambria  Teyers@cambria-env.com 420-9170 The: Nady Systems  MATRIX PRESER  A July Systems  MATRIX PRESER  A July Systems  Tolk X X X X X X X X X X X X X X X X X X X								5103	5	ΨĮ.	ج ∫ ٍ		2	/87		by		į	17/17		1						
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SAMPLE ID LOCATION		-	ine	nta		li					BTEX & TPH as	TPH as Diesel (8015) / Motor oil / Stoodard	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 (8010) VOCS  BATEY ONI Y (FPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 / 8260	EPA 625 / 8270	PAH's / PNA's by	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239,2/6010)	ļ				ļ			
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Relinquished By:	Date:	Time:	Rec	cived SEC	By: しゃん	D L	م ن	-T10	رد،			Remarks: Lowest possible detection limits.							ts.	GOOD CONDITION HEAD SPACE ABSENT						_		APPROPRIATE /			
Relinquished By	Date:	Time.	Rec	Received By: UTPA EX ER—P E RICARDO								Please email results.								DE	CHLO ESE	ORIN	ITAN	ED IN V	IN LAB			PRESERVED IN L			
Relinguished By:	Date:	Time:					1														اندوري										