PROTECTION

00 APR 18 PM 4: 06

April 12, 2000

Mr. Kenneth D. Clark Clark's Home and Garden 23040 Clawiter Road Hayward, California 95118-3686 Appears anaerobic dograd.

Re: First Quarter 2000 Groundwater Monitoring Report

Clark's Home and Garden 23040 Clawiter Road Hayward, California Cambria Project # 189-1517



Dear Mr. Clark:

As required by the Alameda County Health Care Services Agency (ACHCSA), Cambria Environmental Technology, Inc. (Cambria) has prepared this quarterly monitoring report for the above-referenced site (Figure 1). The first quarter 2000 activities and results, bioparameter sampling analyses results, hydrocarbon distribution in groundwater, and the anticipated second quarter 2000 activities are presented below.

FIRST QUARTER 2000 ACTIVITIES and RESULTS

Monitoring Activities

Field Activities: On January 25, 2000, Cambria gauged and collected groundwater samples from wells MW-1, MW-2, and MW-3 (Figure 2). Field data sheets are presented as Attachment A.

Sample Analyses: Groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) and total petroleum hydrocarbons as diesel (TPHd) by modified EPA Method 8015, and benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tert-butyl ether (MTBE) by EPA Method 8020. The groundwater analytical results are summarized in Table 1. The analytical report is included as Attachment B.

Oakland, CA Sonoma, CA Portland, OR Seattle, WA

Cambria Environmental Technology, Inc.

1144 65th Street Suite B Oakland, CA 94608 Tel (510) 420-0700 Fax (510) 420-9170

Monitoring Results

Groundwater Flow Direction: Based on depth-to-water measurements collected during Cambria's January 25, 2000 site visit, groundwater beneath the site flows to the northwest with a gradient of 0.01 ft/ft (Figure 2). During 4th quarter 1999, groundwater flowed to the southwest. Depth-to-water and groundwater elevation data are presented in Table 1.

Soil Disposal: Cambria profiled five soil drums left onsite from previous investigations by others. Denbeste Transportation of Windsor, California, transported the drums to Forward Landfill in Manteca, California. The drum's waste manifest is presented as Attachment C.



BIOPARAMETER ANALYSES RESULTS

To assess the present level of intrinsic bioremediation, Cambria analyzed samples collected from all site wells for oxidation-reduction potential (ORP), nitrate, sulfate, total dissolved iron, alkalinity, and dissolved oxygen (DO). Comparison of TPHg concentrations with the above bioparameters indicate that anaerobic biodegradation of hydrocarbons is occurring at the site. The analytic results and the relative TPHg concentrations are presented below:

	Table A - Bioparameter Concentrations in Ground Water										
	ORP	Nitrate	Sulfate	Ferrous Iron	Alkalinity	DO	ТРНд				
MW-1	-108 mV	3 ppm	30 ppm	0.8 ppm	720 ppm	2.31 ppm	2,200 ppb				
MW-2	-130 mV	20 ppm	42 ppm	0.3 ppm	520 ppm	0.31 ppm	2,300 ppb				
MW-3	-37 mV	69 ppm	66 ppm	0.02 ppm	470 ppm	0.46 ppm	<50 ppb				

As shown above, nitrate and sulfate concentrations decrease with increasing hydrocarbon concentrations. Both these inverse relationships between analyte and hydrocarbon concentration are typically indicative of anaerobic biodegradation. Ferrous Iron concentrations increase with increasing hydrocarbon concentrations; a direct relationship indicates active anaerobic biodegradation. ORP readings measured from downgradient well MW-3 are higher than ORP measured in source area well MW-1, indicating that anaerobic biodegradation is occurring. Although the alkalinity results indicate that aerobic biodegradation is occurring, the dissolved oxygen results are contraindicative of aerobic biodegradation. Additional sampling for these parameters during subsequent quarters should clarify these apparently conflicting analytic results for aerobic biodegradation.

The implications of relationships between bioparameter results and hydrocarbon results and the relationships observed in site monitoring wells are presented in Table B, below.

	Table B - Bioparameter Analysis		
Bio- parameter	Description of chemical processes and implications of relationship between hydrocarbon and bioparameter concentrations.	Relationship indicating active bio- degradation	Observed Relationship
ORP	The oxidation-reduction potential (ORP) of groundwater is a measure of electron activity and is an indicator of the relative tendency of a solute species to gain or lose electrons. The ORP of groundwater generally ranges from -400 millivolts (mV) to +800 mV. Under oxidizing conditions the ORP of groundwater is positive, while under reducing conditions the ORP is usually negative. Reducing conditions (negative ORP) suggests that anaerobic biodegradation is occurring. Generally, the ORP of groundwater inside a hydrocarbon plume should be somewhat less than that measured outside the plume.	ínverse	direct
Nitrate	After DO has been depleted in the groundwater, nitrate may be used as an electron acceptor for anaerobic biodegradation. In this denitrification process, nitrate is reduced to nitrite. Reduced nitrate concentrations in the source area compared to the clean area suggests that anaerobic biodegradation is occurring.	inverse	inverse
Sulfate	After DO and nitrate have been depleted in the groundwater, sulfate may be used as an electron acceptor for anaerobic biodegradation. If sulfate concentrations vary inversely with hydrocarbon concentrations, anaerobic biodegradation of fuel hydrocarbons is probably occurring.	inverse	inverse
Ferrous Iron	In some cases ferric iron acts as an electron acceptor during anaerobic biodegradation of petroleum hydrocarbons. In this process, ferric iron is reduced to ferrous iron, which may be soluble in water. Therefore, if the ferrous iron concentrations vary directly with hydrocarbon concentration, anaerobic biodegradation may be occurring.	direct	direct
Alkalinity	The total alkalinity of groundwater indicates the groundwater's ability to neutralize acid. High alkalinity (high pH) conditions occur when groundwater contains elevated hydroxides, carbonates, and bicarbonates of elements such as calcium, magnesium, sodium, potassium, or ammonia. Since these chemical species are created by the respiration of microorganisms, high alkalinity is an indicator of biological activity. However, these chemical species may also result from the dissolution of rock (especially carbonates) and the transfer of carbon dioxide from the atmosphere. Alkalinity also buffers groundwater pH against acid generation by both aerobic and anaerobic biodegradation processes. Higher alkalinity in the source area as compared to clean areas suggests that aerobic biodegradation is occurring.	direct	direct



Dissolved Oxygen	During aerobic biodegradation, DO levels are reduced as aerobic respiration occurs. DO is the most thermodynamically favored electron acceptor used in aerobic biodegradation of petroleum hydrocarbons. Active aerobic biodegradation of BTEX compounds requires at least 1 ppm DO in groundwater and DO concentrations can be as high as 8 to 13 mg/L in oxygen-saturated	inverse	inconclusive
	groundwater that is free of hydrocarbons. Observed inverse relationships between DO and hydrocarbon concentrations indicate the occurrence of aerobic degradation, provided that at least 1 to 2 mg/L of DO is present in groundwater.		



Hydrocarbon Distribution in Groundwater

Hydrocarbon concentrations detected this quarter are consistent with historical results. A concentration of 3.3 μ g/L benzene was detected in groundwater samples collected from well MW-1, located near the former underground storage tanks (USTs). No benzene was detected in monitoring wells MW-2, or MW-3. The maximum TPHg and TPHd concentrations detected were 2,300 μ g/L and 2,900 μ g/L, respectively, in monitoring well MW-2. The hydrocarbon plume appears to be stable and with evidence of biodegradation.

ANTICIPATED SECOND QUARTER 2000 ACTIVITIES

Monitoring Activities

Quarterly Ground Water Sampling: Cambria will continue to gauge, measure dissolved oxygen, ORP and ferrous iron concentrations, and collect groundwater samples from the wells. Cambria will submit the samples to an analytical laboratory for TPHg, TPHd, BTEX, MTBE, and bioparameters analyses. Cambria will also tabulate the data and prepare a quarterly monitoring report.

Purged Groundwater Disposal: During the removal of the soil drums left onsite by others, it was discovered that four of the drums believed to be soil contained purged groundwater. These drums will be disposed of at an approved facility during the second quarter 2000.

Mr. Kenneth Clark April 12, 2000

CAMBRIA

CLOSING

We appreciate the opportunity to provide environmental services on behalf of Mr. Ken Clark. If you have any questions or comments, please call John Riggi at (510) 420-3340.

Sincerely,

Cambria Environmental Technology, Inc.



John A. Riggo Project Geologist

Dave C. Elias, RG Senior Geologist



cc:

Ms. Eva Chu, Alameda County Department of Environmental Health 1131 Harbor Bay Parkway, 2nd Floor, Alameda, California 94502

Mr. and Mrs. Bob and Shirley Price, 537 Hidden Valley Road, Grants Pass, Oregon 97527

ATTACHMENTS

Figure 1 - Vicinity Map

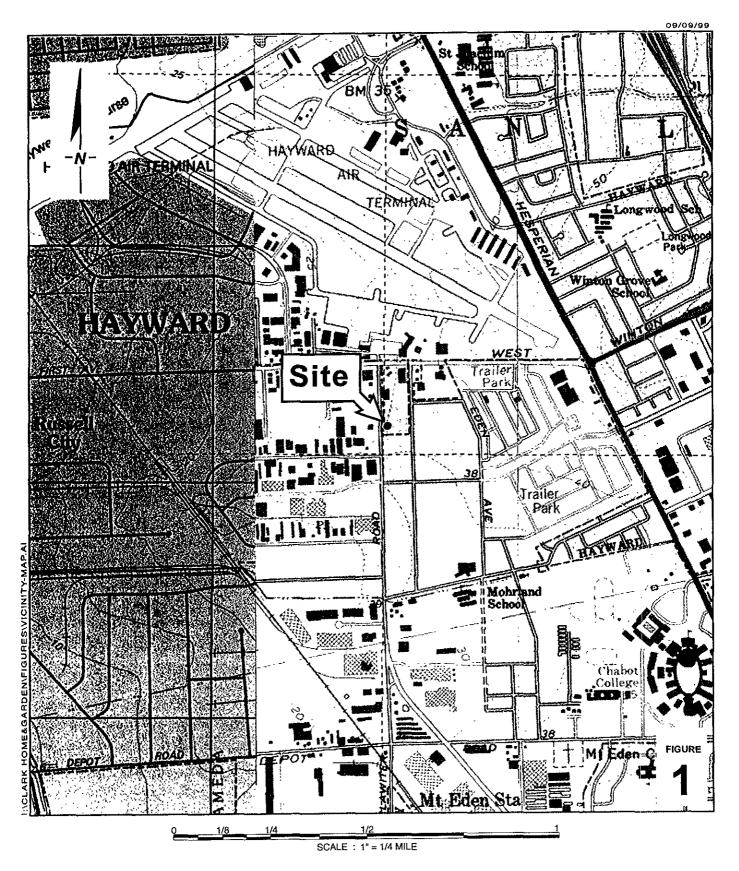
Figure 2 - Groundwater Contour Map

Table 1 - Groundwater Elevation and Analytical Data

Attachment A - Field Data Sheets

Attachment B - Laboratory Analytical Report

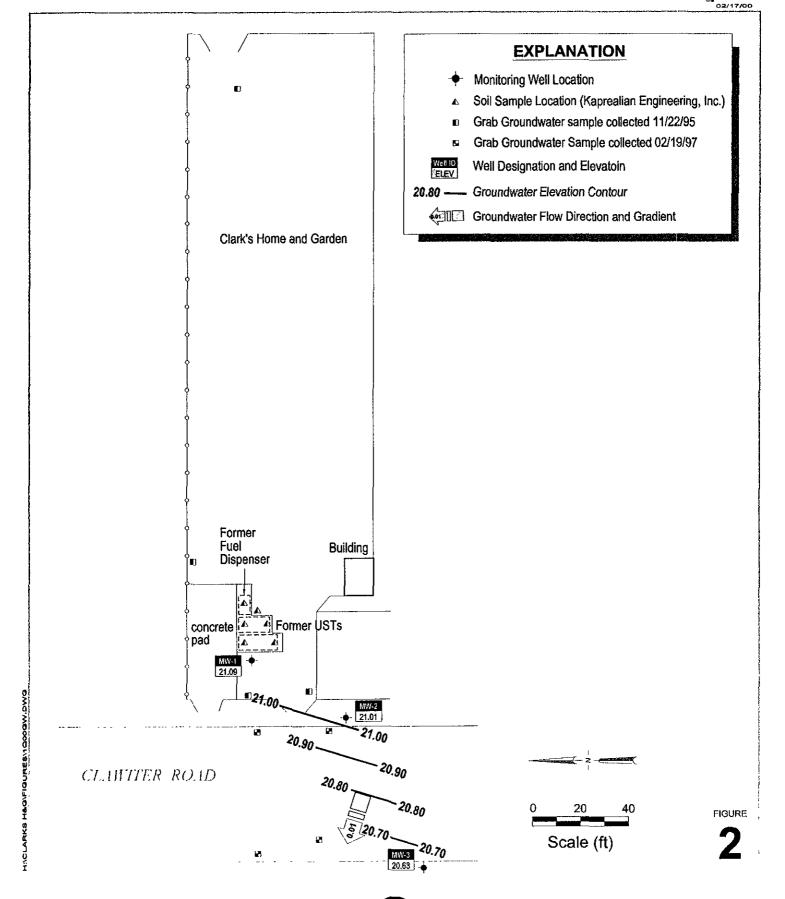
Attachment C - Waste Manifest



Clark's Home and Garden



Vicinity Map



Clark's Home and Garden

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Groundwater Contour Map

Table 1. Groundwater Analytical Data - Clark's Home and Garden, 23040 Clawiter Road, Hayward, California

Well ID TOC (fi)	Date	Depth to Groundwater (ft)	Groundwater Elevation (ft*)	TPHg	TPHd	Benzene	Toluene ——(µg/L)——	Ethylbenzene	Xylenes	мтве
MW-1 35 30	8'7.91	na	na	5,900	7,100	45	<25	130	520	na
33 30	9/5/91	na	na	47,000	2,800	<50	<50	230	660	na
	10/15/91	na	na	24,000	13,000	<50	<50	<50	390	na
	1/7/92	na	na	23,000	9,000	<50	<50	270	800	na
	4/8/92	na	па	8,100	3,500	19	<5	350	210	na
	7/7/92	na	na	7,000	6,300	<5	<5	190	170	na
	11/23/93	na	na	2,400	1,600	1.5	3 7	41	24	na
	1/31/94	na	na	3,900	1,900	1.9	4.2	56	49	na
	4/11/94	na	na	2,200	3,000	1.2	4.6	11	11	na
	7/27/94	na	na	6,200	4,400	<1	<1	50	74	na
	10/31/94	na	na	1,700	1,800	2.1	49	20	42	na
	10/9/95	na	na	870	1,300	<0.5	<0.5	12	10.4	na
	1/17/96	na	na	1,800	1,800	10	<5	16	19.8	na
	4/25/96	na	na	1,700	1,500	11	5.7	26	25	na
	2/19/97	na	na	2,800	430	9	6	33	50	na
	10/15/99	14.45	20 85	1,000°	1,400	3.3	5	4.6	6.7	<5.0
	1/25/00	14.21	21.09	2,200ª.b	1,400 ^{b,d,g}	3.3	1.7	4.6	7.4	<5.0

Table 1. Groundwater Analytical Data - Clark's Home and Garden, 23040 Clawiter Road, Hayward, California

Well ID TOC (fr)	Date	Depth to Groundwater (ft)	Groundwater Elevation (fi*)	TPHg	TPHd	Benzene	Toluene (µg/L)	Ethylbenzene	Xylenes	мтве
:-2	10 15 99	13 86	20.76	4300 ^{g.j}	3.100	<1	6.7	11	11	<5.0
?	1/25/00	13.61	21.01	2,300 ^{b,g,h}	2,900 ^{b.d.g}	<0.5	2.3	2.2	2	<5.0
3	10/15/99	14.88	20.42	<50	99	<0.5	<0.5	<0.5	<0.5	<5.0
)	1/25/00	14.67	20.63	<50	98 ^g	<0.5	<0.5	<0.5	<0.5	<5.0
	10/15/99	na	na	<50		<0.5	<0.5	<0.5	<0.5	<5.0

Abbievia	tions	and I	Methods

TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015

Benzene, toluene, ethylbenzene, and xylenes by EPA Method 8020

MTBE = Methyl tert-butyl ether by EPA Method 8020

MTBE (8260) = Methyl tert-butyl ether by EPA Method 8260

μg/L = micrograms per liter

Notes:

a -unmodified or weakly modified gasoline is significant.

b - lighter than water immiscible sheen is present.

c - heavier gasoline range compounds are significant (aged gasoline?)

Abbreviations and Methods (Cont'd):

TOC = top of casing elevation

TB = trip blank

na = not applicable

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

d - gasoline range compounds are significant

g - strongly aged gasoline or diesel range compounds are significant

J - no recognizable pattern

ATTACHMENT A

Field Data Sheets

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WELL SAMPLING FORM

Project Name: Clark's Home &Garden	Cambria Mgr: DCE	Well ID: MW-/
Project Number: 189-1517-009	Date: 1/25/00	Well Yield:
Site Address:	Sampling Method:	Well Diameter: 2 "pvc
23040 Clawiter Road Hayward, CA.	Disposable bailer	Technician(s): ME
Initial Depth to Water: 14,21	Total Well Depth: 23,481	Water Column Height: 9,27
Volume/ft: 0,16	1 Casing Volume: 1. 48 942	3 Casing Volumes: 4. 45 94-6
Purging Device: disposable bailer	Did Well Dewater?: 10	Total Gallons Purged: 4,594c
Start Purge Time: 3:09	Stop Purge Time: 3:18	Total Time: 9 min
DO; PRE =	2.31 POST 5.24 mg/c Wel	
1 Casing Volume = Water column height x Volume/ ft.		2" 0.16

1 Casing Volume = Water column height x Volume/ft. ORP, PRE -/08 Past -/29 mV Grade Well Diam Volume/ft (gallon: Volume/ft (gallon: Volume/ft) (gallon: Vol

Time	Casing Volume	Temp.	pН	Cond.	Comments
3:10	/	18.5	6.3	601	
3:17	3	18.5	6.3	479	

Fe: 0.8 mg/c Analytic Method Container Sample ID Date Time Preservative Analytes Type 8020 TPHg, BTEX, 4 voa's **HCL** 1/25/00 3:20 1:0-1 8015 MTBE* * MTBE (Confirm hits) 8260 1:10-1 3:20 1/25/00 1L plastic None Nitrate, Sulfate, Alk.

| 1/25/00 | 3:20 | 1L plastic | None | TPHd | 8015

WELL SAMPLING FORM

Project Name: Clark's Home &Garden	Cambria Mgr: DCE	Well ID: NW-2
Project Number: 189-1517-009	Date: 1/25/00	Well Yield:
Site Address:	Sampling Method:	Well Diameter: 2 "pvc
23040 Clawiter Road Hayward, CA.	Disposable bailer	Technician(s): ME
Initial Depth to Water: /3.6/	Total Well Depth: 25./2'	Water Column Height: //.5(
Volume/ft: 0.16	1 Casing Volume: 1. 849+1	3 Casing Volumes: 5-529m
Purging Device: disposable bailer	Did Well Dewater?: 10 .	Total Gallons Purged: 6 94e
Start Purge Time: 2:31	Stop Purge Time: 2:42	Total Time: 1/ m/n
Casing Volume = Water column height x Volume/ ft. DRP; Pre	0.31 past 0.81 m/c -130 Past-146 mv.	2" 0.16

	DO	PEE	0.01	Past 0	1810	Well Diam.	Volume/ft (gallons)
1 Casing Volume	= Water column heig	ht x Volume/f	ît.			2"	0.16
		•		<i>ያ</i> ንል <i>ሶም</i>	11// 6	4"	0.65

Time	Casing Volume	Temp.	pН	Cond.	Comments
2:33	/	18.0	7.0	1537	
2:36	2	18.2	6.8	555	
2:41	3	18.2	7.5	550	
				}	

Fe: 0.0-0.3 ms/c.

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-2	1/25/00	2:55	4 voa's	HCL	TPHg, BTEX, MTBE* * MTBE (Confirm hits)	8020 8015 8260
MW-2	1/25/00	2:55	1L plastic	None	Nitrate, Sulfate, Alk.	
11.10.2	1/25/00	2:55	1L plastic	None	ТРНа	8015

WELL SAMPLING FORM

Cambria Mgr: DCE	Well ID: NW-3
Date: 1/25/00	Well Yield:
Sampling Method:	Well Diameter: 2 "pvc
Disposable bailer	Technician(s): ME
Total Well Depth: 29.25	Water Column Height: 14-53
1 Casing Volume: 2-33 24L	3 Casing Volumes: 7 9+C
Did Well Dewater?: NO	Total Gallons Purged: 7.592
Stop Purge Time: 2;00	Total Time: 15 m/n.
	Date: 1/25/00 Sampling Method: Disposable bailer Total Well Depth: 29.25 1 Casing Volume: 2-33 24L Did Well Dewater?: NO

Do; PRE 0.46 POST. 0.66 Mg/L Well Diam. Volume/ft (gallons)

1 Casing Volume = Water column height x Volume/ft. ORP; PRE-37 PAST. 62 MV 6" 1.47

Time	Casing Volume	Temp.	pН	Cond.	Comments
1:46	/	19.1	7.2	592	brownist - SILTY
1:52	2	19.0	6.5	587	ι,
7:59	3 -	18,6	7.6	594	/(
	<u></u>				

Fe; 0.0-0.2 mg/L.

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
1210 3	1/25/00	2:15	4 voa's	HCL	TPHg, BTEX, MTBE* * MTBE (Confirm hits)	8020 8015 8260
11/11/3	1/25/00	2:15	1L plastic	None	Nitrate, Sulfate, Alk.	
1411-3	1/25/00	2:15	1L plastic	None	TPHd	8015

ATTACHMENT B

Analytical Laboratory Report

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 Environmental Technology	Client Project ID: #189-1517;	Date Sampled: 01/25/00					
1144 65 th Street, Suite C	Clark's H&G	Date Received: 01/26/00					
Oakland, CA 94608	Client Contact: Mark Erickson	Date Extracted: 01/26-01/27/00					
	Client P.O:	Date Analyzed: 01/26-01/27/00					

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*

FPA methods 5030, modified 8015, and 8020 or 602; California RWOCR (SE Bay Region) method GCEID (5030)

Lab ID	Client ID	Matrix	TPH(g) ⁺	мтве	Benzene	Toluene	Ethylben- zene	Xylenes	% Recovery Surrogate
29687	MW-1	W	2200,a,h	ND	3.3	1.7	4.6	7.4	#
29688	MW-2	w	2300,b,j,h	ND	ND	2.3	2.2	2.0	#
29689	MW-3	W	ND	ND	ND	ND	ND	ND	102
						_			
 -									
	g Limit unless se stated; ND	w	50 ug/L	5.0	0.5	0.5	0.5	0.5	
	detected above porting limit	S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

^{*} water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L.

[&]quot;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 (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol % sediment, j) no recognizable pattern



^{*}cluttered chromatogram; sample peak coclutes with surrogate peak

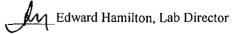
110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com E-mail; main@mccampbell.com

Cambria Environmental Technology	Client Project ID: #189-1517;	Date Sampled: 01/25/00					
1144 65 th Street, Suite C	Clark's H&G	Date Received: 01/26/00					
Oakland, CA 94608	Client Contact: Mark Erickson	Date Extracted: 01/26-02/02/00					
	Client P.O:	Date Analyzed: 01/26-02/02/00					

Lab ID	Client ID	TPH(d)⁺	% Recovery Surrogate	
29687	MW-1	w	1400,d,b,h	101
29688	MW-2	W	2900,d,b,h	98
29689	MW-3	W	98,6	102
2,00,				
Reporting Lim	it unless otherwise is not detected above	W	50 ug/L	

^{*} water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP / STLC / SPLP extracts in ug/L

[&]quot;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) medium boiling point pattern that does not match diesel (?), f) one to a few isolated peaks present; g) oil range compounds are significant, h) lighter than water immiscible sheen is present, i) liquid sample that contains greater than ~5 vol. % sediment.



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 Ave. South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622

http://www.mccampbell.com E-mail: main@mccampbell.com

QC REPORT

Date:

01/26/00

Matrix:

Water

xtraction:	N/P

		Concent	ration: ເ	ıg/L	%Rec		
Compound	Sample	MS	MSD	Amount Spiked	MS	MSD	RPD
SampleID: 12600		•		Instru	ment: G	C-3	
Surrogate1	0.000	101.0	100.0	100.00	101	100	1.0
Xylenes	0.000	274.0	281.0	300.00	91	94	2.5
Ethyl Benzene	0.000	91.0	93.0	100.00	91	93	2.2
Toluene	0.000	94.0	96.0	100.00	94	96	2.1
Benzene	0.000	98.0	101.0	100.00	98	101	3.0
MTBE	0.000	98.0	96.0	100.00	98	96	2.1
GAS	0.000	938.6	926.8	1000.00	94	93	1.3
SampleID: 12800				Instru	ment: G	C-11 A	
Surrogate1	0.000	112.0	116.0	100.00	112	116	3.5
TPH (diesel)	0.000	336.0	334.0	300.00	112	111	0.6
SampleID: 12600				Instru	ment: IF	₹-1	
Surrogate1	0.000	97.3	94.4	100.00	97	94	3.0
TRPH	0.000	28.1	27.3	23.70	119	115	2.9

% Re covery =
$$\frac{(MS-Sample)}{AmountSpiked} \cdot 100$$
$$(MS-MSD)$$

$$RPD = \frac{(MS - MSD)}{(MS + MSD)} 2100$$

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351

Phone (209) 572-0900 Fax (209) 572-0916

CERTIFICATE OF ANALYSIS

Report # L027-05

McCampbell Analytical 110 2nd Avenue South

Pacheco

CA 94553

Project: 18714 Cambria

PO#

Date: 2/03/00

Date Rec'd:

1/27/00 1/28/00 Date Started:

Date Completed: 1/31/00

Date Sampled:

1/25/00

Time: Sampler:

Sample ID	Lab ID PÇ	L MDL	DL Method Analyte Re		Results Units
MW-1	L30889	1.0 1.0 10	300 300 310.1	Nitrate (NO3) Sulfate Total Alkalinity	3 mg/L 30 mg/L 720 mg/L
MW-2	L30890	1.0 1.0 10	300 300 310.1	Nitrate (NO3) Sulfate Total Alkalinity	20 mg/L 42 mg/L 520 mg/L
MW-3	L30891	1.0 1.0 10	300 300 310.1	Nitrate (NO3) Sulfate Total Alkalinity	69 mg/L 66 mg/L 470 mg/L

Ramiro Salgado Chemist

Donna Keller Laboratory Director

Certification # 1157

GeoAnalytical Laboratories, Inc. nue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

1405 Kansas Avenue Modesto, CA 95351

Report# L027-05

QC REPORT

McCampbell Analytical

110 2nd Avenue South

Pacheco

CA 94553

Dates Analyzed 1/28/00-1/31/00

Analyte	Batch #	Method	MS % Recovery	MSD % Recovery	RPD	Blank
Nitrate (NO3)	100600	300	108.0	108.0	0.0	ND
Sulfate	100521	300	104.0	101.4	2.5	ND
Total Alkalinity	100522	310.1	100.0	112.5	11.8	ND

Chemist

Donna Keller Laboratory Director

Certification # 1157

1027-05

McCAMPBELLS ANALYTICAL INC.

1052 AVENUES BOTH, #D7

PACHECO, CA 94533-5560

Fax: (925) 798-1620

Report To: Hamilton Bill To: MA

Project #: [8714]

Project Name: Cambria CHAIN OF CUSTODY RECORD RUSH 24 HOUR 48 HOUR 5 DAY ROUTINE TURN AROUND TIME ANALYSIS REQUEST **OTHER** Project Location: METHOD EPA - Pnority Pollutant Metals LEAD (7240/7421/239.2/6010) SAMPLING **MATRIX PRESERVED** EPA 608/8080-PCB's only COMMENTS EPA 624/8240/8260 ORGANIC LEAD Type Containers CAM - 17 Metals # Containers SAMPLE ID LOCATION EPA 625/8270 EPA 601/8010 EPA 602/8020 LUFT Metals Date Time EPA 608/808 Air Sludge Other Water Soil HNO, Other HCI HCI MW-25/00 [2] MW-2 MW-3 Received By: Relinquished Br Hullo Date: 2400 Remarks: Time: Date: Time: Regelved By Harlo 9:00m United No. Time: Received By: Relinquished By: Date:

18714ZC-111 doc

	McCAMPBELL ANALYTICAL INC. 110 2 rd AVENUE SOUTH, #D7										,		Cl	HA	N	ΙO	F(CU	ST	O.	DΥ	rR	EC	OR	D		_	-						
	1		VENUE SO ECO, CA 9		#D7											ΤL	JRN	IA	RO	UN	D'	TIN	Æ										3	-
Telephor	ne: (925) 798-		LCO, CA	4555	F	ax: (925	79	98-16	22															RU	SH	2	4 H	OUR	48	HO	UR	5 DAY	
Report To: Man			В	ill To					114		6	Ü	7,			Analysis Request						est					\neg	Other				nments		
Company: Cambria	Environmen	tal Tech	nology			<u>, , , , , , , , , , , , , , , , , , , </u>	الـاســــــــــــــــــــــــــــــــــ								\Box	6													3					
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Tele: (510) 420-07	00				10) 4									ĬŽ		20 E	8.1)							8/0					4.1		1	1		
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ATTACHMENT C

Waste Manifest

Keller Canyon Saritary Landfill 901 Balley Road Pittsburg, CA 94565 Phone (925) 458-9800 Fax (925) 458-9891

- Edward Sales
Ox Mountain
Sanitary Landiur
12310 San Mateo Road
Half Moon Bay, CA 94019
Phone (650) 726-1819
Fax (650) 726-9183

]	Newby Island
	Sanitary Landfill
	1601 Dixon Landing Road
	Milpitas, CA 95035
	Phone (408) 945-2800
	Fax (408) 262-2871

Landfill
9999 S. Austin Ro
Manteca, CA 9533
Phone (209) 982-4
Fax (209) 982-100

NON-HAZARDÕUS WASTE MANIFEST

GENERATOR . WASTE ACCEPTANCE NO.	NDN-HAZANDOOS TAOTE MARTILEOT				
GENERATOR WASTE ACCEPTANCE NO.					
Clack's Honel Garden					
MAILING ADDRESS 922 - SOD					
CITY, STATE, ZIP REQUIRED PERSONAL PROTECTIVE EQUIP	MENT				
	IARD I				
PHONE → TY-VEK □ OTHER					
CONTACT PERSON SPECIAL HANDLING PROCEDURES:					
SIGNATURE OF AUTHORIZED AGENT / TITLE DATE					
* Douclas I muls not -					
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly that the proper condition for transportation a correlation to applicable	,				
described, classified and packaged, and is in project containing the state of a previously restricted hezardous waste regulations; AND, if the waste is a treatment residue of a previously restricted hezardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by	~				
40 CFR Part 281.					
WASTE TYPE: DISPOSAL DISPOSAL DISLUDGE					
DISPOSAL DIS					
Q DEBRIS Q OTHER					
GENERATING FACILITY					
Clasic Home & Carden					
23040 Cla WHEE RA - HASKING C	111455				
TRANSPORTER NOTES: VEHICLE LICENSE NUMBER TRUCK N	OMBE				
Den Beste Transportation					
ADDRESS	•				
CITY, STATE, ZIP DIS 189-1517-013	,				
1.1. 2000 (0. 951147)	ANSFI				
PHONE END DUMP BOTTOM DUMP TR	AIVOLT				
SIGNATURE OF AUTHORIZED AGENT OR DRIVER DATE ROLL-OFF(S) FLAT-BED VAN	DRU				
SIGNATURE OF AUTHORIZED AGENT OF BUILDER	7				
aparta (/				
* - 14-550AL - 3 59AL	السيندي				
CUBIC YARDS					
I have by a self that the above named material has been \(\frac{1}{1} \) \(\frac{1}{1} \) \(\frac{1}{2} \) \(\frac{1}{2} \)	Zan				
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing DISPOSAL METHOD: (TO BE COMPLETED BY LANDER)					
is true and accurate.					
DISPOSE	THER				
V 2001					
REMARKS					
REMARKS CONSTRUCTION DEBRIS					
FACILITY TICKET NUMBER CONSTRUCTION DEBRIS NON-FRIABLE					
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