

CAMBRIA



Fax

To: Eva Chu

Company: ACHCSA

Fax: (510) 337-9335

Phone: (510) 567-6762

Cc: David Diamond, Mark Arniola,

From: Bob Clark-Riddell

Phone: (510) 420-3303

Pages: 10, including cover

Date: February 6, 2003 February 6, 2003

Re: Requested Information
1350 Powell Street, Emeryville

Hard Copy to Follow? Yes No

Eva,

Here is some of the information you requested during our meeting yesterday. Enclosed is the additional sampling data from temporary well TW-6, and a figure showing soil sample results from at or near the bottom of the excavation. Because the figure is 11" x 17", I have enclosed a reduced copy as well as three pages comprising the 11" x 17" figure.

Cambria has sent via email the remainder of the requested information – site photographs and a discussion of soil sampling results near the excavation floor.

Thank you again for your assistance and attention to this matter.

Additional Groundwater Data – TW-6 only 260 ug/L total TPH

In response to your concern about the concentration of 5,000 ug/L total TPH from temporary well TW-6 on December 4, 2002, Cambria resampled TW-6 on December 18, 2002. The sample event was conducted after the recent rains, and should help evaluate conditions during the rainy season. The prior sample may be considered more representative of the pre-rainy season.

As shown on the attached laboratory report, well TW-6 contained only 260 ug/L total TPH (total of TPHg and TPH bunker oil). No BTEX, TPHg, or TPHmo were detected. This additional data suggests that onsite groundwater is well below the cleanup goal of 20,000 ug/L total TPH. Furthermore, these residual concentrations are from non-volatile hydrocarbons and do not pose a vapor concern for site occupants. And since onsite groundwater is not being protected for potable water, no further sampling is merited.

Bob Clark-Riddell

Signature  Principal Engineer

Cambria Environmental Technology, Inc. 1144 85th Street Suite B Oakland CA 94608 Tel (510) 420-0700 Fax (510) 420-9170

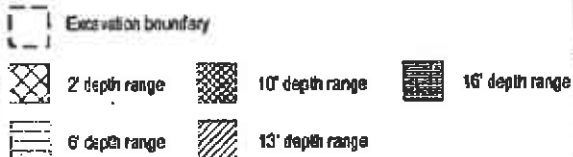
\\oakdc\in@alaam Brothers (Airgas)\Faxes and Correspondence\fx-ACHCSA-02-06-03-TW6data.doc

EXPLANATION

Depth	TPHg	TPHd	TPHto	Total*
-------	------	------	-------	--------

Concentrations in soil are in parts per million (ppm, mg/kg)
 Concentrations exceeding 1,000 ppm total TPH are shown in bold

- S - Approximate location of excavation sidewall soil sample (Cambria, 2002)
- F - Approximate location of excavation floor soil sample (Cambria, 2002)
- - Approximate location of deeper soil boring (Lomney Associates, 2007)
- ⊙ - Approximate location of shallow soil boring (Lomney Associates, 2002)
- - Approximate location of exploratory boring (R.T. Hicks, 2001)



* Total TPH does not equal cumulative result of TPHg + TPHd + TPHto for excavation confirmation samples. To avoid quantification of overlapping results, Total TPH = TPHg (CS-C9) + TPHto (C10+) for soil and sidewall samples during excavation in 2002 (TPHto = TPH bunker oil).

3	<2.0	46	18	44
9	<20	220	66	230

NOTE

- TOTAL EXCAVATION FLOOR AREA ≈ 23,000 SF
- SAMPLES FROM BOTTOM, SIDEWALL WITHIN BOUNDARY OF EXCAVATION, AND PRE-REMEDIATION BOUNDARIES FOR SOIL AT OR NEAR EXCAVATION BOTTOM = TOTAL OF 24 SAMPLES

• $23,000 \div 24 \text{ SAMPLES} =$
 958 SF
 1 SAMPLE EVERY 958 SF



Scale (ft)

POWELL STREET

NOTE: Samples Representative of Native Soil at or near EXCAVATION FLOOR

2	<1.0	1.8	8.5	5.5
8	<1.0	330	<500	550

7	<20	160	41	140
---	-----	-----	----	-----

2	<1.0	<1.0	<5.0	<5
---	------	------	------	----

Soil beyond total excavation boundary mixed in deep excavation and replaced with clean Import material to at least 5 feet below grade

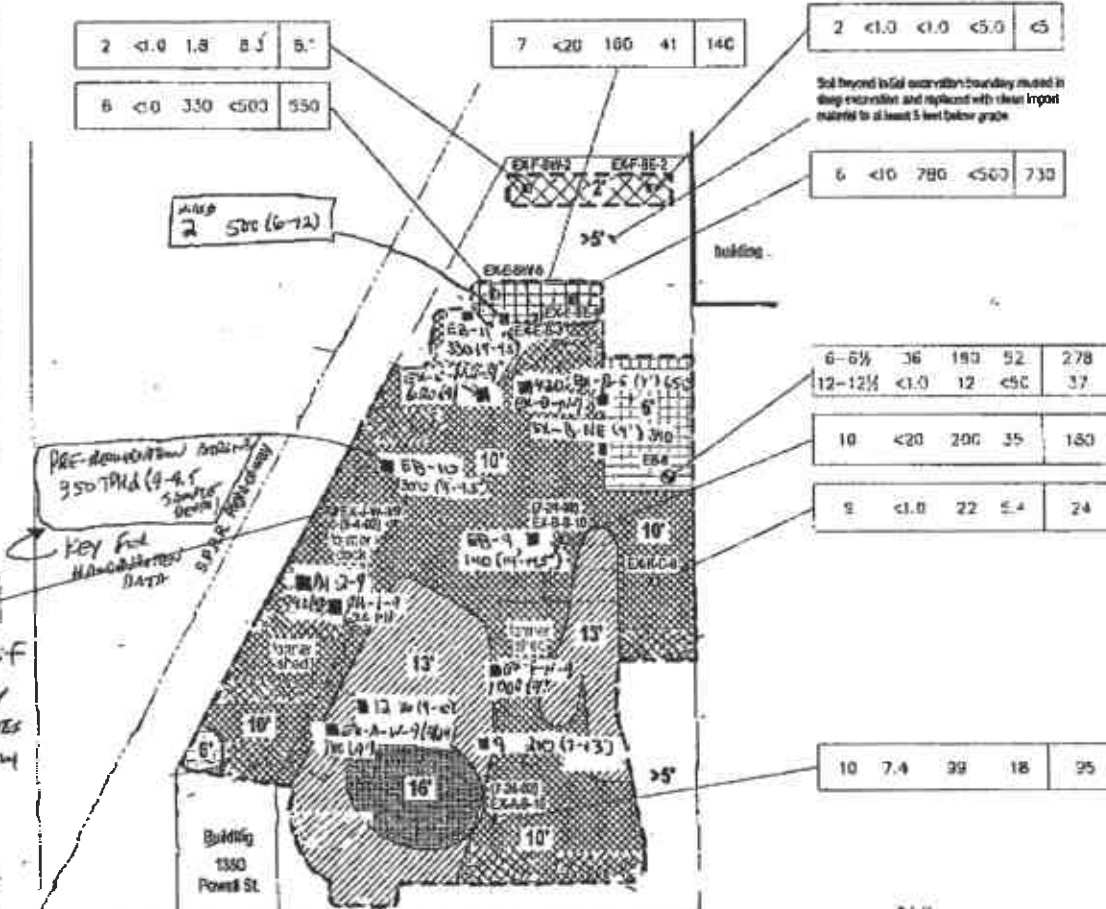
6	<10	780	<500	730
---	-----	-----	------	-----

6-6 1/2	36	180	52	278
12-12 1/2	<1.0	12	<50	37

10	<20	200	35	180
----	-----	-----	----	-----

9	<1.0	22	5.4	24
---	------	----	-----	----

10	7.4	39	18	35
----	-----	----	----	----



PNE - And
 Post-Remediation Conditions in Soil
 and Excavation Extents



C A M B R I A

Baleam Property
 1350 Powell Street
 Emeryville, California

FIGURE

6

EXPLANATION

Depth	TPHg	TPHd	TPHmo	Total*
-------	------	------	-------	--------

Concentrations in soil are in parts per million (ppm, mg/kg)
 Concentrations exceeding 1,000 ppm total TPH are shown in **bold**

- - Approximate location of excavation sidewall soil sample (Cambria, 2002)
- - Approximate location of excavation floor soil sample (Cambria, 2002)
- ⊕ - Approximate location of deeper soil boring (Lowney Associates, 2002)
- ⊙ - Approximate location of shallow soil boring (Lowney Associates, 2002)
- - Approximate location of exploratory boring (R.T. Hicks, 2001)



Excavation boundary



2' depth range



10' depth range



16' depth range



6' depth range



13' depth range

- * - Total TPH does not equal cumulative result of TPHg + TPHd + TPHmo for excavation confirmation samples. To avoid quantification of overlapping results, Total TPH = TPHg (C6-C9) + TPHbo (C10+) for soil and sidewall samples during excavation in 2002 (TPHbo = TPH bunker oil).

3	<2.0	45	18	44
9	<20	220	66	230

NOTE

- TOTAL EXCAVATION FLOOR AREA ≈ 23,000 SF
- SAMPLES FROM BOTTOM, SIDEWALL WITHIN BOUNDARY OF EXCAVATION, AND PRE-REMEDIATION BORINGS FOR SOIL AT OR NEAR EXCAVATION BOTTOM = TOTAL OF 24 SAMPLES

$23,000 \text{ SF} \div 24 \text{ SAMPLES} = 1 \text{ SAMPLE EVERY } \underline{958 \text{ SF}}$



Scale (ft)

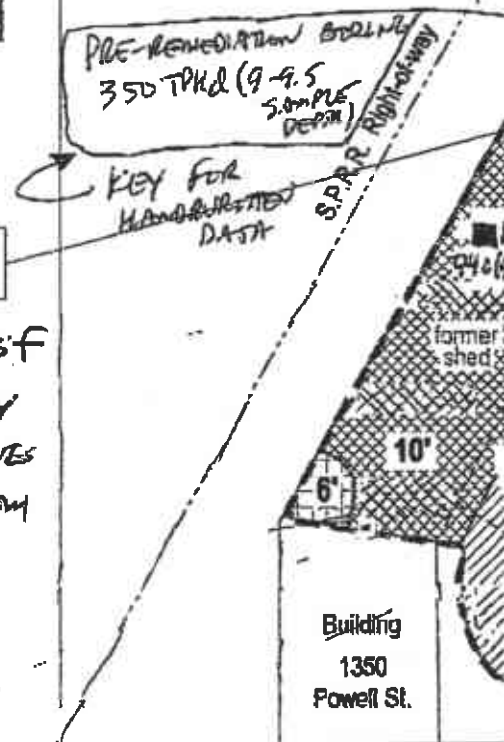
POWELL STREET

NOTE: Samples at OR NE

2	<1.0	1.8	8.3	8.1
---	------	-----	-----	-----

6	<10	330	<500	550
---	-----	-----	------	-----

Hicks
2 500 (6-12)



NOTE: Samples Representative of Native Soil
at or near EXCAVATION FLOOR

19/kg)
shown in bold

le (Cambria, 2002)
(Cambria, 2002)
ssociates, 2002)
Associates, 2002)
s, 2001)

16' depth range

1 + TPHmo for
overlapping results,
swall samples during

6	18	44
10	66	230

EA ≈ 23,000 SF
WITHIN BOUNDARY
EXCAVATION BORINGS
EXCAVATION SYSTEM

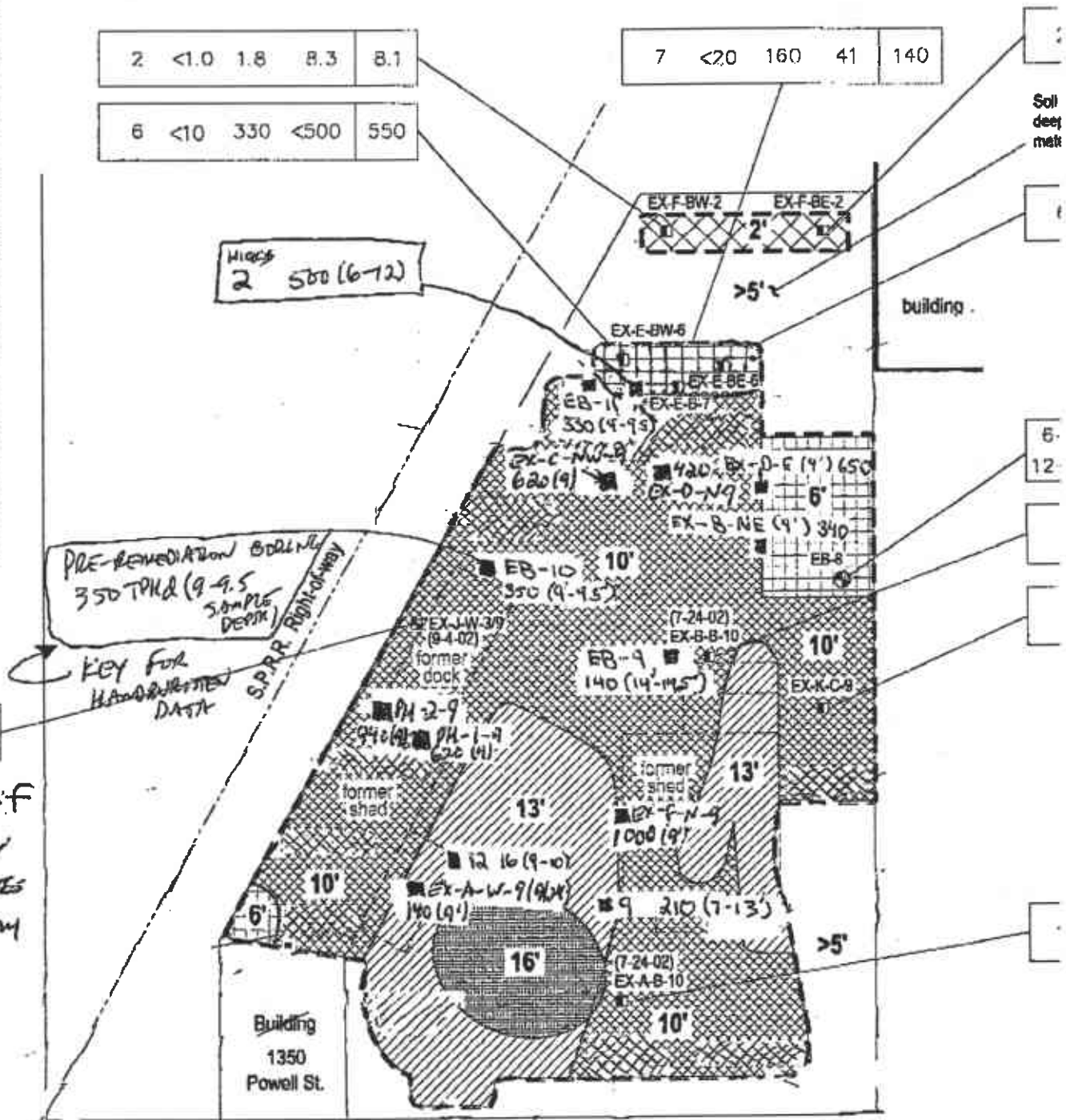
ES =
VERY 958 SF

2	<1.0	1.8	8.3	8.1
---	------	-----	-----	-----

6	<10	330	<500	550
---	-----	-----	------	-----

7	<20	160	41	140
---	-----	-----	----	-----

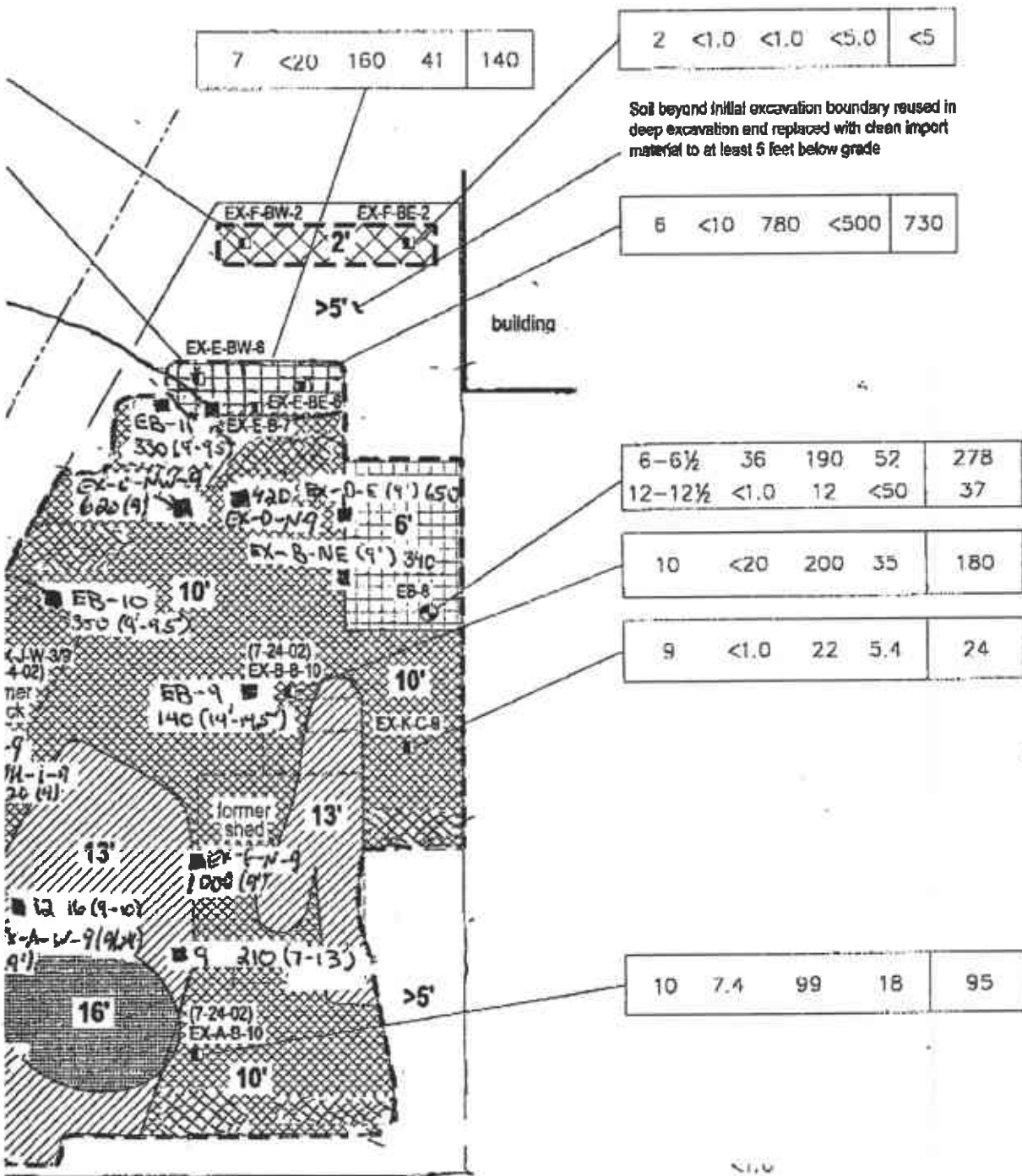
Wings
2 500 (6-12)



WELL STREET

12/19/02

representative of Native Soil.
EXCAVATION FLOOR



PAE- And
Post-Remediation Conditions in Soil
and Excavation Extents

AT or nearby Excavation
Footprint



C A M B R I A

FIGURE
6

Balaam Property
1350 Powell Street
Emeryville, California



McCAMPBELL ANALYTICAL INC.

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

Date: 12-19-02

ATTN: Rob Clark - Riddell

Message: Rush Results for # 502-1795

[Lined area for message content]

FROM: Michelle

Number of pages faxed including this one: 10

CAUTION: CONFIDENTIAL!

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CEP

0212330

RUSH

McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, 401
PACIFIC, CA 94553-3160

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

Report To: B. CLARK-RIDDELL BIR To: SLM

Company: Cambria Environmental Technology Inc.
6262 Hollis Street
Emeryville, CA 94608 E-mail: briddell@cambeinc.com

Tele: 510 420 3303 Fax: 510-450-8295

Project #: 502-1775 Project Name: Baldwin Aigons

Project Location: 1350 Powell St., Emeryville

Sampler Signature: _____

Analysis Request		Other:	Comments
BTEX & TPH as Gas (612/8020 + 801 by XRF) TPH in Diesel (8015) Total Petroleum Oil & Grease (5520 B&F/BS & F) Total Petroleum Hydrocarbons (418.1) EPA 601 / 8010 BTEX ONLY (EPA 602 / 8020) EPA 608 / 8080 EPA 608 / 8080 PCB's ONLY EPA 624 / 8240 / 8260 EPA 625 / 8270 PAH's / PNA's by EPA 625 / 8270 / 8510 CAM-17 Metals LUMP 5 Metals Lead (7240/7421/239.2/6010) RCI			
<input checked="" type="checkbox"/> TPH, BTEX, TPID, PAH, PNA, PCB's w/s. lead - 301 cleaned			

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED					
		Date	Time			Water	Soil	Air	Sludge	Other	Ice	HCl	HNO ₃	Other		
TW-6		12/18/02	3:00p	5	100% 50% 50%	X					X	X				

Requested By: <u>SLM</u>	Date: <u>12/18/02</u>	Time: <u>3:30</u>	Received By: <u>SLM Location</u>
Requested By: <u>Landy Marous</u>	Date: <u>12/18/02</u>	Time: <u>4:05 PM</u>	Received By: _____
Requested By: <u>Landy Marous</u>	Date: <u>12/18/02</u>	Time: <u>5:00 PM</u>	Received By: <u>Mich Valtin</u>

Remarks: NO OVERLAP IN CARBON RANGE

McC Campbell Analytical Inc.

110 Second Avenue South, #D3
Pacifica, CA 94553-5550
(415) 798-1830



CHAIN-OF-CUSTODY RECORD

WorkOrder: 0212330

Client:

Cambridge Env. Technology
5262 Hollis St.
Emeryville, CA 94608

TEL: (510) 450-1983
FAX: (510) 450-8295
Project No. #502-1795; Balaam Algas
PC:

Date Received: 12/18/02
Date Printed: 12/18/02

Sample ID	ClientSampleID	Matrix	Collection Date	Hold	SW6015C	84218/8015	Requested Tests
0212330-001	TW-6	Water	12/18/02 3:00:00 PM		B	A	

Prepared by: Sonia 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.

McC Campbell Analytical Inc.			136 2nd Avenue South, #107, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mcccampbell.com E-mail: mca@mcccampbell.com								
			Cambria Env. Technology 6262 Hollis St. Emeryville, CA 94608	Client Project ID: #502-1795; Balaam Airgas Client Contact: Bob Clark-Riddell Client P.O.:	Date Sampled: 12/18/02 Date Received: 12/18/02 Date Extracted: 12/19/02 Date Analyzed: 12/19/02						
Client Defined Gasoline Range (C6-C9) Volatile Hydrocarbons as Gasoline with BTEX *											
Extraction method: SW5030a			Analytical methods: SW8021 RMD/SCM					Work Order: 0212330			
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DP	% SS	
001A	TW-6	W	ND	—	ND	ND	ND	ND	1	104	
Empty space for chromatogram data											
Reporting Limit for DP=1: ND means not detected at or above the reporting limit		W S	50 1.0	5.0 0.05	0.5 0.005	0.5 0.005	0.5 0.005	0.5 0.005	ug/L mg/kg		
*water and vapor samples are reported in ug/L, soil and sludge samples in mg/kg, wipe samples in ug/wipe, and TCLP extracts in ug/l.											
± cluttered chromatogram; sample peak coelutes with surrogate peak.											
*The following descriptions of the TPH chromatogram are customary in nature and McC Campbell 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; (biogenicity 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); l) no recognizable pattern.											

DHS Certification No. 1644

Edward Hagilton, Lab Director

McC Campbell Analytical Inc.		110 2nd Avenue South, #107, Pacheco, CA 94553-5566 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com E-mail: mcam@mccampbell.com					
Cambria Env. Technology 6262 Hollis St Emeryville, CA 94608	Client Project ID: #502-1795; Balaam Airgas		Date Sampled: 12/18/02				
	Client Contact: Bob Clark-Riddell		Date Received: 12/18/02				
	Client P.O.:		Date Extracted: 12/18/02				
			Date Analyzed: 12/18/02				
Diesel(C16-23) Motor Oil(C18+) Bunker Oil(C10+) Range Extractable Hydrocarbons with Silica Gel Clean-Up*							
Extraction method: SWJ510C		Analytical methods: SW8015C					
		Work Order: 0212330					
Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	TPH(bo)	DF	% SS
00171	TW-6	W	75.0	ND	260	1	104
Reporting Limit for DF = 1; ND means not detected at or above the reporting limit		W	50	250	250	µg/L	
		S	NA	NA	NA	mg/Kg	
* water and vapor samples are reported in µg/L, wipe samples in ug/wipe, soils/solids/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/l, and oil (CLP / STLC / SPLP) extracts in µg/l.							
† clustered 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 McC Campbell 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) standard solvent / mineral spirit.							

DHS Certification No. 1644

Edward Hamilton, Lab Director