Baran, Cynthia (DEP)

From: Baran, Cynthia (DEP)
Sent: Thursday, September 16, 2004 1:21 PM
To: Hobill, Jonathan (DEP)
Subject: FW: Eagle Gas product and air analysis
Attachments: L0409661.pdf; Eagle Geolabs Air Data 082704.xls

Hi Jon:

FYI...the air sample collected from the apartment above Eagle Gas Station appears clean. Product from all three wells (including the well immediately adjacent to the abandoned 1000 gallon gasoline tanks) looks like diesel.

Eagle Gas still has not obtained access from the new property owner to the storm water outfall location.

-----Original Message-----
From: James J. Decoulos [mailto:jamesj@decoulos.com]
Sent: Thursday, September 16, 2004 12:24 PM
To: Baran, Cynthia (DEP)
Subject: Eagle Gas product and air analysis

Cynthia,

Attached is the fuel product analysis from Alpha Analytical and the APH analysis from GeoLabs that we discussed yesterday.

Jim

>From: Alpha Analytical <seed2@alphalab.com>
>X-Mailer: MIME::Lite 2.117 (F2.6; A1.60; B2.12; Q2.03)
>Date: Fri, 10 Sep 2004 15:32:33 UT
>To: jamesj@decoulos.com
>Subject: Laboratory Results for L0409661
>X-NAS-Bayes: #0: 3.11053E-015; #1: 1
>X-NAS-Classification: 0
>X-NAS-MessageID: 5662
>X-NAS-Validation: {8FD35744-79E1-4653-A88A-3E736253B10C}
>
>Content-Disposition: inline
>Content-Length: 123
>Content-Transfer-Encoding: binary
>Content-Type: text/plain
>
>Alpha Analytical Labs
>If you have any questions or issues with this data, please contact
>Client
>Services at (508) 898-9220.

James J. Decoulos, PE, LSP
Decoulos & Company
3 Electronics Avenue
Danvers, MA 01923
web: www.decoulos.com

tel: 617-489-7795
fax: 877-842-9629

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: Decoulos & Company

Address: 3 Electronics Ave

Danvers, MA 01923

Attn: Mr. Jim Decoulos

Project Number: 616

Site: EAGLE GAS

Laboratory Job Number: L0409661

Date Received: 02-SEP-2004

Date Reported: 10-SEP-2004

Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0409661-01	DCW-7	131 MAIN, CARVER
L0409661-02	ERW-2	131 MAIN, CARVER
L0409661-03	BP-5RR	131 MAIN, CARVER

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: James Todaro
This document electronically signed

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0409661

TPH-8100M

L0409661-01 through -03 and the associated Laboratory Duplicate have elevated limits of detection due to the 20x dilutions required by the elevated concentrations of target compounds in the sample. The Surrogate % Recoveries were not recovered due to the dilutions required to quantitate the samples.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0409661-01
DCW-7
Sample Matrix: OIL

Date Collected: 26-AUG-2004 13:30
Date Received : 02-SEP-2004
Date Reported : 10-SEP-2004

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Hydrocarbon Scan by GC 8100M				1	8100M	0903 16:30	0906 20:21	MS
Mineral Spirits	ND	mg/kg	200000					
Gasoline	ND	mg/kg	200000					
Fuel Oil #2/Diesel	940000	mg/kg	200000					
Fuel Oil #4	ND	mg/kg	200000					
Fuel Oil #6	ND	mg/kg	200000					
Motor Oil	ND	mg/kg	200000					
Kerosene	ND	mg/kg	200000					
Transformer Oil	ND	mg/kg	200000					
Unknown Hydrocarbon	ND	mg/kg	200000					
Surrogate(s)	Recovery		QC Criteria					
o-Terphenyl	ND	%	40-140					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0409661-02
ERW-2
Sample Matrix: OIL

Date Collected: 26-AUG-2004 14:00
Date Received : 02-SEP-2004
Date Reported : 10-SEP-2004

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Hydrocarbon Scan by GC 8100M				1	8100M	0903 16:30	0906 21:25	MS
Mineral Spirits	ND	mg/kg	200000					
Gasoline	ND	mg/kg	200000					
Fuel Oil #2/Diesel	870000	mg/kg	200000					
Fuel Oil #4	ND	mg/kg	200000					
Fuel Oil #6	ND	mg/kg	200000					
Motor Oil	ND	mg/kg	200000					
Kerosene	ND	mg/kg	200000					
Transformer Oil	ND	mg/kg	200000					
Unknown Hydrocarbon	ND	mg/kg	200000					
Surrogate(s)	Recovery		QC Criteria					
o-Terphenyl	ND	%	40-140					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0409661-03
BP-5RR
Sample Matrix: OIL

Date Collected: 26-AUG-2004 14:30
Date Received : 02-SEP-2004
Date Reported : 10-SEP-2004

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Glass

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Hydrocarbon Scan by GC 8100M				1 8100M	0903 16:30	0906 22:29	MS
Mineral Spirits	ND	mg/kg	200000				
Gasoline	ND	mg/kg	200000				
Fuel Oil #2/Diesel	940000	mg/kg	200000				
Fuel Oil #4	ND	mg/kg	200000				
Fuel Oil #6	ND	mg/kg	200000				
Motor Oil	ND	mg/kg	200000				
Kerosene	ND	mg/kg	200000				
Transformer Oil	ND	mg/kg	200000				
Unknown Hydrocarbon	ND	mg/kg	200000				
Surrogate(s)	Recovery		QC Criteria				
o-Terphenyl	ND	%	40-140				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0409661

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Hydrocarbon Scan by GC 8100M for sample(s) 01-03 (L0409661-01, WG180056)					
Mineral Spirits	ND	ND	mg/kg	NC	40
Gasoline	ND	ND	mg/kg	NC	40
Fuel Oil #2/Diesel	940000	950000	mg/kg	1	40
Fuel Oil #4	ND	ND	mg/kg	NC	40
Fuel Oil #6	ND	ND	mg/kg	NC	40
Motor Oil	ND	ND	mg/kg	NC	40
Kerosene	ND	ND	mg/kg	NC	40
Transformer Oil	ND	ND	mg/kg	NC	40
Unknown Hydrocarbon	ND	ND	mg/kg	NC	40
Surrogate(s)	Recovery				QC Criteria
o-Terphenyl	ND	ND	%	NC	40-140

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0409661

Parameter	% Recovery	QC Criteria
Hydrocarbon Scan by GC 8100M LCS for sample(s) 01-03 (WG180056)		
Petroleum Spike	119	40-140
Surrogate(s)		
o-Terphenyl	101	40-140

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0409661

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-03 (WG180056-1)								
Hydrocarbon Scan by GC 8100M				1	8100M	0903 16:30	0905 00:50	MS
Mineral Spirits	ND	mg/kg	10000					
Gasoline	ND	mg/kg	10000					
Fuel Oil #2/Diesel	ND	mg/kg	10000					
Fuel Oil #4	ND	mg/kg	10000					
Fuel Oil #6	ND	mg/kg	10000					
Motor Oil	ND	mg/kg	10000					
Kerosene	ND	mg/kg	10000					
Transformer Oil	ND	mg/kg	10000					
Unknown Hydrocarbon	ND	mg/kg	10000					
Surrogate(s)	Recovery		QC Criteria					
o-Terphenyl	103.	%	40-140					

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

GLOSSARY OF TERMS AND SYMBOLS

REF Reference number in which test method may be found.
METHOD Method number by which analysis was performed.
ID Initials of the analyst.
ND Not detected in comparison to the reported detection limit.

Please note that all solid samples are reported on dry weight basis unless noted otherwise.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

GeoLabs, Inc.

Environmental Laboratories

LABORATORY REPORT

PREPARED FOR:

Decoulos & Company
3 Electronics Avenue
Danvers, MA 01923

Attn: Jim Decoulos

PROJECT ID:	616 131 Main Street Carver, MA
GEOLABS CERTIFICATION #:	M-MA015
SAMPLE NUMBER:	154340
DATE PREPARED:	September 2, 2004
PREPARED BY:	Karen Mullally
APPROVED BY:	_____ Jim Chen, Laboratory Director

SAMPLE INFORMATION

Matrix	☐ Aqueous ☐ Soil o Sediment ☒ Other-Air		
Containers	☒ Satisfactory ☐ Broken ☐ Leaking		
Sample Preservative	Aqueous	☐ N/A ☐ pH ≤ 2 ☐ pH > 2 Comment:	
	Soil or Sediment	☐ N/A ☐ Samples NOT preserved in MeOH or air-tight containers	ml MeOH
		☐ Samples received in MeOH ☐ Covering soil ? ☐ Not	☐1:1±25%
		☒ Received in air tight container-Summa Canister	☐ Other
Temperature	☐ Received on ice ☐ Received at 4° C ☐ Other		

APH ANALYTICAL RESULTS						
Method for Ranges: MADEP APH				Client ID:	EGA-1	
APH Surrogate Standards				Lab ID:	154340	
PID (2,5-Dibromotoluene)				Date Collected:	08/27/04	
FID (2,5-Dibromotoluene)				Date Received:	08/27/04	
Method for Target Analytes: EPA-TO14A				Date Fractions Analyzed:	08/30/04	
				Date Targets Analyzed:	08/30/04	
				Ranges Dilution Factor:	1.0	
				Targets Dilution Factor:	1.0	
Range/Target Analyte	Elut. Range	RL (ppbv)	RL (ug/m3)	Units		
Unadjusted C5-C8 Aliphatic Hydroca	N/A		78.0	ug/m^3	ND	
Unadjusted C9-C12 Aliphatic Hydroc	N/A		78.0	ug/m^3	ND	
Benzene	C5-C8 Aliph	0.386	1.23	ppbv/ug/m3	ND	
1,3-Butadiene	N/A	2.18	5.00	ppbv/ug/m3	ND	
Ethylbenzene	C5-C8 Aliph	0.54	2.34	ppbv/ug/m3	ND	
Methyl-tert-butyl ether	C5-C8 Aliph	1.39	5.00	ppbv/ug/m3	ND	
*2-Methylnaphthalene**	N/A	2.38	20.0	ppbv/ug/m3	ND	
*Naphthalene**	N/A	0.940	5.00	ppbv/ug/m3	ND	
Toluene	C5-C8 Aliph	0.95	3.58	ppbv/ug/m3	ND	
m-,p-Xylenes	C5-C8 Aliph	0.38	1.65	ppbv/ug/m3	ND	
o-Xylene	C9-C12 Aliph	0.46	2.00	ppbv/ug/m3	ND	
C5-C8 Aliphatic Hydrocarbons[1]	N/A		78.0	ug/m^3	ND	
C9-C12 Aliphatic Hydrocarbons[2]	N/A		78.0	ug/m^3	ND	
C9-C10 Aromatic Hydrocarbons	N/A		78.0	ug/m^3	ND	
2,5-Dibromotoluene (PID) Surrogate Recovery						
2,5-Dibromotoluene (FID) Surrogate Recovery						
Surrogate Acceptance Range					70-130%	

[1] C_5-C_8 Aliphatic Hydrocarbons exclude concentrations of Target Analytes eluting in that range

[2] C_9-C_{12} Aliphatic HCs exclude concentrations of Target Analytes AND C_9-C_{10} Aromatic Hydrocarbons eluting in that range

*Compounds quantitated by TICS

CERTIFICATION

Were all QA/QC procedures REQUIRED by the APH Method followed? ☒ Yes ☐ No - Details attached

Were all QA/QC performance /acceptance standards achieved? ☒ Yes ☐ No - Details attached
Were any significant modifications made to the APH method?? ☐ No ☒ Yes - Details below

Aliphatic and Aromatic ranges quantitated by GC PID/FID.

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immedately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge, accurate and complete.

SIGNATURE: _____ POSITION: Lab Director

PRINTED NAME: Jim Chen DATE: 09/02/04

GEOLABS, INC.
45 JOHNSON LANE
BRAINTREE, MA 02184
M-MA015

LIMITATIONS & EXCLUSIONS

All the professional opinions presented in this report are based solely on the scope of work conducted and sources referred to in our report. The data presented by GeoLabs in this report was collected and analyzed using generally accepted industry methods and practices at the time the report was generated. This report represents the conditions, locations and materials that were observed at the time the work was conducted. No inferences regarding other conditions, locations or materials, at a later or earlier time may be made based on the contents of the report. No other warranty, express or implied is made.

This report was prepared for the sole use of our client. Portions of the report may not be used independent of the entire report.

All analyses were performed within required holding times, in accordance with EPA protocols and using accepted QA/QC procedures. All QA/QC meets acceptable limits unless otherwise noted. The information contained in this report is, to the best of my knowledge, accurate and complete.

Any and all subsequent pages of this report are chain(s) of custody.

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[redacted]