VIA EMAIL AND FIRST CLASS PRIORITY MAIL

Wednesday, January 30, 2008

Lynn Peterson Read
Assistant General Counsel
Board of Registration of
Hazardous Waste Site Cleanup Professionals
One Winter Street, 3rd floor
Boston, MA 02108

RE: Complaint No. 05C-007

Dear Ms. Read:

It was a pleasure meeting with the Complaint Review Team (CRT) on December 12, 2007 to review issues and answer questions related to the above referenced Complaint to the Board.

As I mentioned at the outset of our meeting and in my letter to the CRT dated August 31, 2007, the legal dispute between my former client Eagle Gas, Inc. (Eagle) and my firm has been settled, the attachment of their real estate has been released and Eagle has agreed to a fair compensation for the services provided. The Board has received correspondence from Eagle requesting that the Complaint be withdrawn. Eagle initiated this Complaint through the law offices of Shephard S. Johnson, Jr. & Associates, Inc. on December 13, 2005.

Based upon our meeting, the issues outlined in your letter dated December 14, 2007 and an email received on the afternoon of December 14th, I provide the following responses to your concerns.

A. STORM DRAIN SYSTEM INSPECTIONS FOR EAGLE

PID readings and observations of the storm drain system in the Main Street right-of-way were recorded in field books. Excerpts of the relevant field notes are attached herewith as Exhibit A. Readings and observations were made on the following dates and presented on the following pages of Exhibit A:

May 16, 2003	page A-1
September 4, 2003	page A-7
December 10, 2004	page A-21
June 8, 2005	page A-37
June 17, 2005	page A-38

Photographs of the observations have been posted on the web album service hosted by Google at: http://picasaweb.google.com/decoulos .

B. GROUNDWATER ELEVATION NOTES AND MEASUREMENTS FOR EAGLE

Field notes and measurements of groundwater measurements were made on the following dates and presented on the following pages of Exhibit A:

June 12, 2003	pages A-5 and A-6
June 3, 2004	page A-9
August 26, 2004	page A-12
October 7, 2004	page A-14
April 6, 2005	page A-29

C. STORM DRAIN SYSTEM MEASUREMENTS FOR EAGLE

Significant efforts were made to accurately locate utilities, collect existing plans of the storm drain system and undertake a detailed field survey of the area. The surveys included the use of a Topcon GTS-3B electronic total station with electronic data collection. The equipment was used to build a triangulated surface network on the front portion of the Eagle property and into the Main Street right-of-way. A plan filed with MassDEP has been plotted showing sample spot elevations used to build the electronic surface in AutoCAD. See Exhibit B.

On December 10, 2004, the inverts of the two drain manholes in front of Eagle were measured to their rim elevations. The measurements are in the field notes of Exhibit A on page A-21.

The invert measurements and surface network were used to create cross-sections of the drain system and Eagle USTs, which were included in various reports filed with MassDEP.

D. MONITORING, MAINTENANCE AND REPLACEMENT OF BOOMS AND PADS AT SOUTH MEADOW BROOK

As I described on December 12th, the storm drain system is significantly contaminated from a catch basin located approximately 75 feet south of Eagle, all the way to its outfall at South Meadow Brook. It is my unsubstantiated opinion that prior operators at the Eagle property voluntarily or involuntarily caused surface releases of oil or hazardous materials that washed into the catch basin during rain events and caused the significant stormwater collection system contamination.

A small amount of product from Eagle's release was shown to leach into the drain system during periods of elevated groundwater elevations. The information was detailed on pages 19-25 of the IRA Status Report dated May 6, 2005 located at: http://decoulos.com/Eagle.htm

Photographs of the effort to protect the surface waters of South Meadow Brook are posted at: http://picasaweb.google.com/decoulos .

E. CHARACTERIZATION OF NAPL FOR EAGLE

Numerous efforts were made to characterize the NAPL and differentiate response actions with RTNs 4-12848 and 4-13333. As I mentioned at our meeting, I attempted to fingerprint the petroleum fractions using techniques presented in July of 2002 at an LSP course entitled "Environmental Chemistry and the Emergence of Forensic Geochemistry" taught by Michael J. Wade. Email correspondence with Cynthia Baran from MassDEP, Mary Davis at Alpha Analytical and Dave Kahler of Geolabs is presented in Exhibit C. Neither lab was able to fulfill the promises of Mr. Wade.

Additionally, fingerprint analysis of the NAPL from both Alpha and Geolabs is presented in Exhibit D.

F. SITE ASSESSMENT AND RISK CHARACTERIZATION FOR SPEEDY LUBE

I have been unable to locate reports from Sage Environmental and respectfully request to supplement this response by February 8, 2008.

As to the risk characterization of MTBE under Method 2 - specifically the consolidation of analysis with C9-C10 Aromatics at monitoring well DMW-4 - there are several points that I would like to raise.

First, the VPH/EPH Policy from MassDEP, Policy #WSC-02-411, presents a comparative relationship between MTBE, the BTEXs, the C5-C8 Aliphatics and the C9-C10 Aromatics on page 4. MTBE is highly persistent in the air at a gasoline station environment similar to Speedy. See e.g. Table 4-11 of the Policy on page 33.

Second, DMW-4 is located in an area where motor vehicles are continually parking and standing to purchase items in Speedy's convenience store. Photographs which demonstrate this can be seen at: http://picasaweb.google.com/decoulos . A gold automobile is shown parking in the first photo of the web album, with subsequent detailed photos showing significant staining around the well casing.

Finally, the confirmatory sampling on November 12, 2003 and March 15, 2004 confirmed the original judgment which supported the original RAO analysis. The average concentration of MTBE from those dates (which included a duplicate) was 6703 ug/l.

The EPC for benzene exceeded Method 1 GW-2 standards at DMW-1 only. GW-2 did not apply at DMW-1 because it was greater than 30 feet from the building. Well DMW-4 was between DMW-1 and the building. The area downgradient of DMW-1 was contained by bedrock. The EPC for benzene at DMW-1 was lower than the Method 1 GW-3 standard.

Please feel free to contact me anytime if you have any questions or if I can provide any further information. Thank you.

Very truly yours,

James J. Decoulos, PE, LSP
jamesj@decoulos.com

EXHIBIT A

EAGLE GAS

4/26/03

w/ PAR + JA

PRODUCT { 3.67
BETWEEN { 9.94

TOTAL DEPTH 11.30

STARTED PUMPING @ 11:40; RAN DRY @ 12:10

GW RECOVERED TO 4.30
SAND CAVED IN. PUMPED SAND + RESET TOP 12" OF WELL CASING UNTIL IT SAT ON ABUTTING CASING. APPEARS TO BE MISSING COUPLING OR COUPLING IS NO LONGER EFFECTIVE. NO PRODUCT.

PUMPED AGAIN DRY @ 1:30.
RECOVERED AGAIN TO ≈ 4.30.
NO PRODUCT.

LEFT SITE @ 2:15

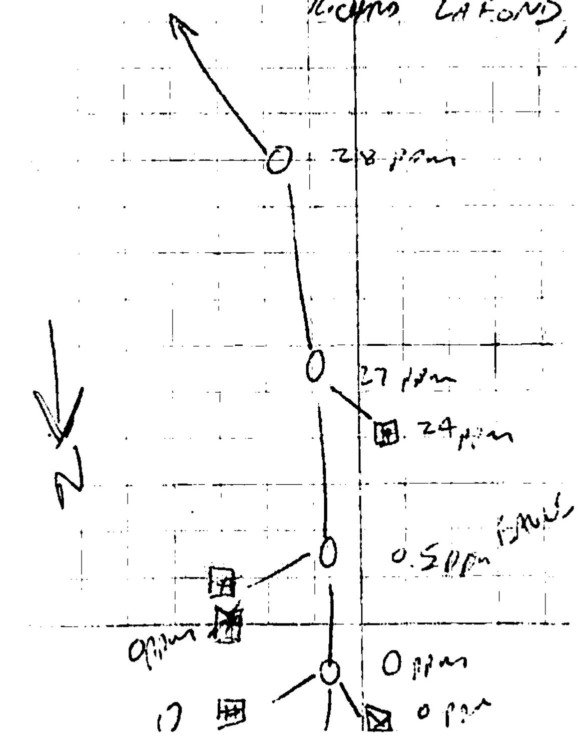
5/14/03

08 30
60°F
PTLY CLDY

4.05 PRODUCT
10.72 PRODUCT
BOTTOM WELL

5/16/03

SARAH H
MICHAEL DOL, CHM
CAVAL CON COM
RICHARD LAFOND, TOWN ENG



5/21/03

EAGLE GAS STATION

	STATIC WATER	SAMPLE TIME	FIELD ID
BP-2	6.87		A
BP-3	5.98		B
~~OUTFALL~~		5:11	C/D/E
~~HOLMES~~		5:25	F
DAN		6:10	G/H
MW-A	6.38 / 14.3		I
	7.05		
BP-SRR	5.14 + 6.75		
	NAPL		

EAGLE GAS

6/2/03
MIKE LUGERE
BK66/TDS

DCA
0-0.5 PVMT
0.5-1.0 T+S
(S1) 1559 1.0-4.0 MED SAND
– 4.0-6.0 DISCOLORED SILT + FINE SAND
6.0-8.0 FINE SAND + SILT
(S2) 1885 8.0-10.0 SILT + CLAY

GW ≈ 6.0

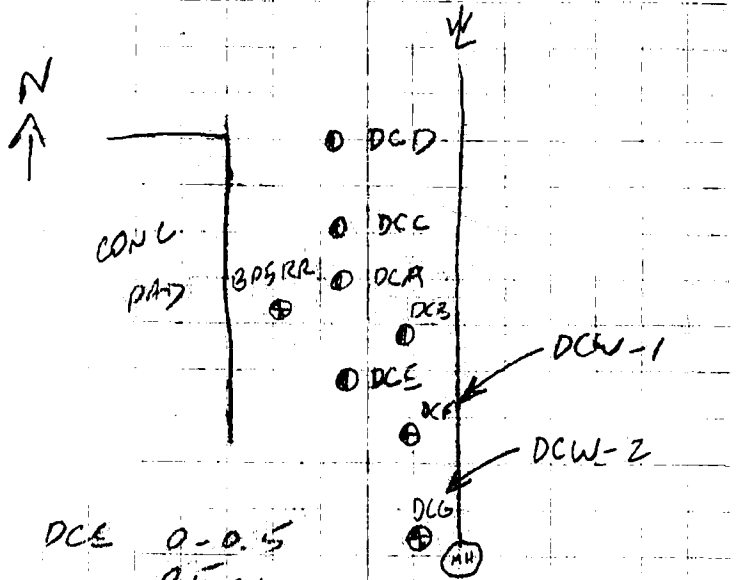
DCB
0-0.5 PVT
0.5-1.5 SUBGRADE, T+S
(S1) 2163 1.5-4.0 FINE SAND W/MOTTLES
– 4.0-5.0 DISCOLORED SILT
5.0-7.0 FINE SAND W/MOT
(S2) 2220 7.0-10.0 SILT + CLAY

GW ≈ 6.0

DCC
0-0.5 PVT
0.5-1.0 T+S
(S1) 811 1.0-4.0 M.SAND W/MOTTLES
– 4.0-6.0 SLIGHT DISC SILT
(S2) 1202 6.0-10.0 SILT + CLAY

GW ≈ 6.0

DCD
0-0.5 PVT ID
(S1) 0.5-1.0 ID
– 1.0-5.0 M.S W/MNR MOTTLES
(S2) 5.0-6.5 FINE SAND
497 6.5-10.0 SILT + CLAY

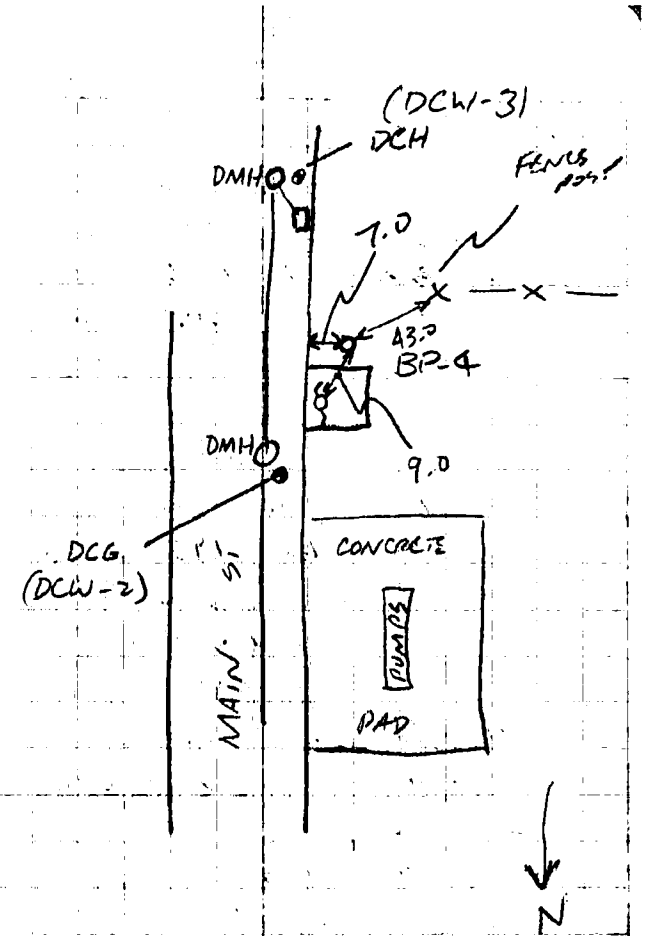


DCE
0-0.5
(S1) 0.5-1.0
1344 1.0-4.0 M.SAND DISCOLORED
– 4.0-5.0 SLIGHT DISC. SILT
5.0-6.0 FINE SAND + SILT
(S2) 6.0-10.0 SILT + CLAY

DCF 0.0 1.0 PVT
(S1) 1.0 3.0 GRVL
51 3.0 - 5.0 SAND + GRVL.
— 5.0 - 6.0 FINE SAND
(S2) 6.0 - 10.0 SILT + CLAY
270 MW INSTALLED

DCG 0.0 - 1.0 PVT
(S1) 1.0 - 4.0 GRVL
15 4.0 - 6.0 LOAMY SAND
— (S2) 6.0 - 10.0 SILT + CLAY
2.8 MW INSTALLED

DCH 0.0 - 1.0 PVT
(S1) 1.0 - 7.0 COARSE SAND + GRVL
0.0 7.0 - 8.0 FINE SAND + SILT
(S2) 8.0 - 10.0 FINE - MED SAND
0.0 GW @ 7.0
MW INSTALLED



EAGLE GAS

6/12/03
OVERCAST
70°F

	STATIC H_2O	TOTAL
DCW-3	4.90	10.8

STARTED PUMPING @ 2:15

TIME	PH	T(°C)	SPC (MS/CM)
2:15	5.87	11.73	0.641
2:25	5.92	11.67	0.645
2:40	5.91	11.58	0.651

2:45 COLLECTED 2 VPH + 1 EPH
TOTAL PUMPED ≈ 18 QTS

DCW-2 5.79 11.40

3:10	6.61	12.93	0.116
3:14	6.67	13.52	3.18

WELL RAN DRY @ 3:15 AFTER 3 QTS

3:25	6.58	13.71	3.00
3:30	6.54	13.81	2.59

3:40 COLLECTED 2 VPH + 1 EPH
TOTAL PUMPED ≈ 6 QTS

DCW-1 5.98 12.05

4:04	5.63	13.78	11.64

WELL RAN DRY @ 4:06 ≈ 2 QTS
4:50 COLLECTED 4 VPH + 2 EPH
TOTAL PUMPED ≈ 6QTS

BP-5RR 4.80] 0.28
5.08] PRODUCT

EQUIPMENT
HYDROLAB QUANTA WATER QUALITY METER
GEOTECH GEOPUMP 2
SOLINST INTERFACE METER

NOTES
TEMP READINGS @ DCW-1 + DCW-2 INFLUENCED BY SLOW WITHDRAWAL + MODERATE OUTSIDE TEMPS.
FLOW THROUGH CUP FOR QUANTA CAKED W/ SILT. CLEANED @ 4:45.

COLLECTED EPH SAMPLE @ PAUL MALLEY'S @ 6:00

BP-4 5.77 9.50

6:08	6.24	14.81	0.271

WELL RAN DRY @ 6:12 ≈ 0.5 QT

6:28	6.26	15.17	0.270

STOPPED PUMPING @ 6:30
STARTED AGAIN @ 7:05

7:05	5.51	12.14	0.263
7:08	5.44	12.01	0.263

COLLECTED 2 VPH + 1 EPH

	STATIC H_2O	TOTAL
MW-A	5.82	
KEI-4	4.16	12.30
BP-1	5.95	13.45
BP-2	6.14	13.85
BP-3	5.42	13.52

NOTE: BP-2 HAD RED ANTS BELOW COVER W/ SIGNIFICANT DROPPINGS THAT HAD ADHERED TO DEDICATED POLY TUBING.

16

Location 131 MAIN ST, CARVER Date 9/4/03

Project / Client EAGLE GAS

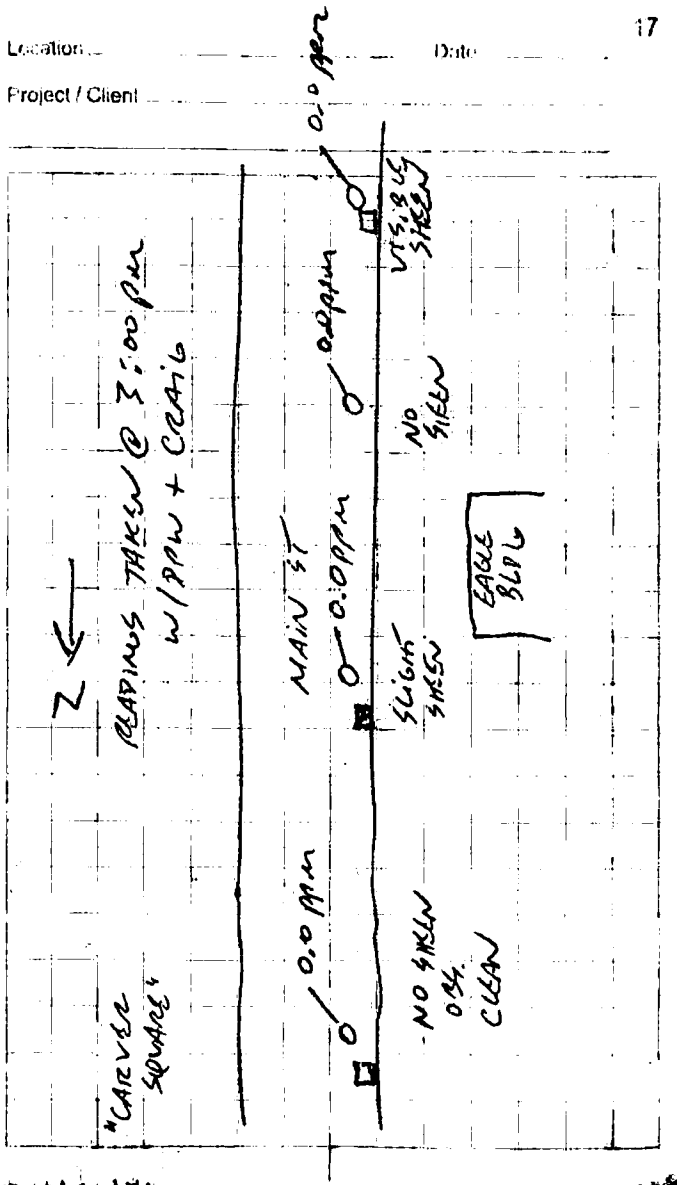
PID – MINI RAE 2000 CALIBRATED

LIGHT RAIN DURING OBSERVATIONS

17

Location Date

Project / Client

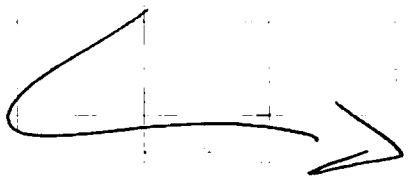


46

Location OUTFALL @ SOUTH MEADOW BROOK Date 6/3/04

Project / Client EAGLE

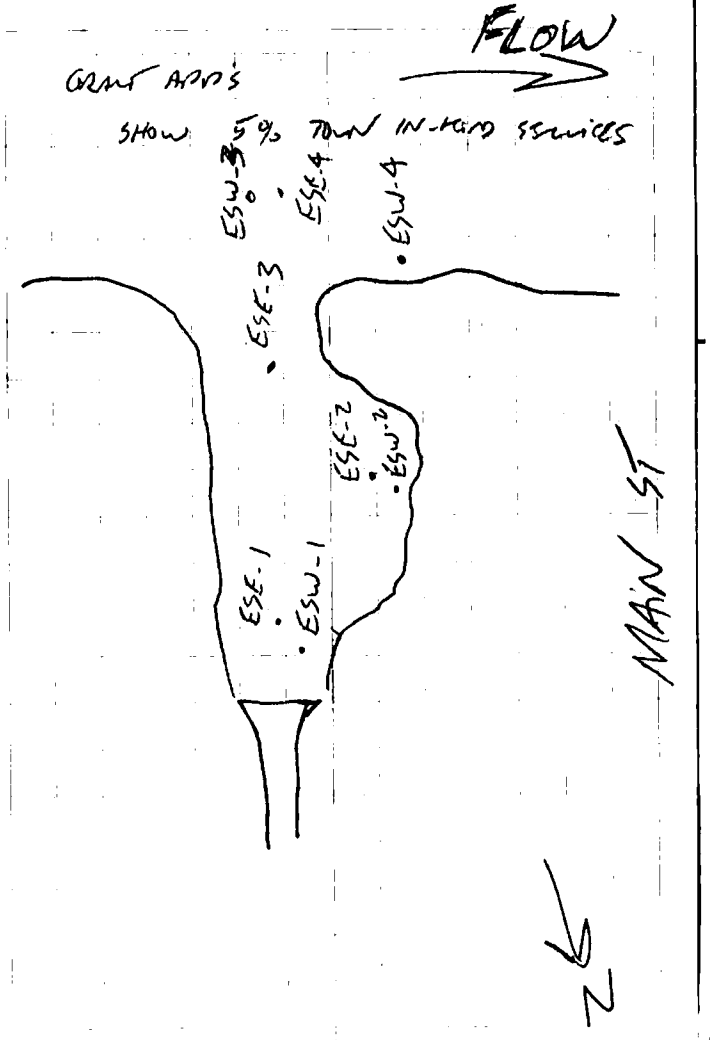
SEDIMENT SAMPLING LOCATIONS @ SOUTH MEADOW BROOK



47

Location Date

Project / Client



Location 131 MAIN ST, CARVER Date 6/3/04

Project / Client EAGLE GAS

SAMPLING W/MIKE CONVOYS

MIKE STARTED SAMPLING @ ~ 800

ORDER

BP-1
BP-2
BP-3
DCW-3
DCW-2
KEI-4
BP-6 is DRY TOTAL 6.6 FT
DCW-1 HAS NAPL COLLECTED SAMPLE
MW-A
MIW-1

Location Date

Project / Client

KEI 4

STATIC 5.16
TOTAL 12.20
STARTED PUMPING @ 11:30

MW-A

STATIC 6.60

IRRIGATION WELL @ MALLEY'S

STATIC 8.67 FT
TOTAL 62.0 FT
STARTED PUMPING @ 1330

Location 131 MAIN ST, CARVER Date 8/17/04

Project / Client EAGLE GAS

WEATHER:
OVERCAST W/ SLIGHT
MIST; ≈ 65°F

SCOTT + PAUL
FROM TDS
OPERATING
6610 DT

OFFICER ON DETAIL: CLYDE FROM: MIDDLEBORO

@ DCW1
MEASURED 0.03 FT OF NAPL
W/ SOLINST MODEL 122

DCW-4
@ 5' - 4 ppm
9' - 130 ppm
13' - 115 ppm
INSTRUMENT SUSPECT

0-2 PVMT + SUBBASE
2-5 FINE SAND
5-13 FINE SAND, LOAMY SILT
13-15 FINE SAND, MOTTLED

Location Date

Project / Client

HELEN @ LOCAL
SMALL BH
REGULAR VAN
ICE CREAM
SWAN
MED HAZ NUT
XTRA CREAM

DCW-5
0-2 PVMT + SUBBASE
2-6 FINE MOTTLED SAND
6-15 SILTY CLAY

DCW-6
0-1 CONCRETE + SUBBASE
1-5 FINE SAND
5-11 FINE SANDY SILT
11-15 SILTY CLAY (CHECK PHOTOS)

8

Location _____ Date 8/18/04

Project / Client EAGLE

NEW OFFICER: ADAM (FROM MIDDLEBURG)

NEW TDS PERSONNEL: PAUL + TOM

@ ERW-1 NO PRODUCT

ERW-2 0.23 FT PRODUCT

6.87

8.19

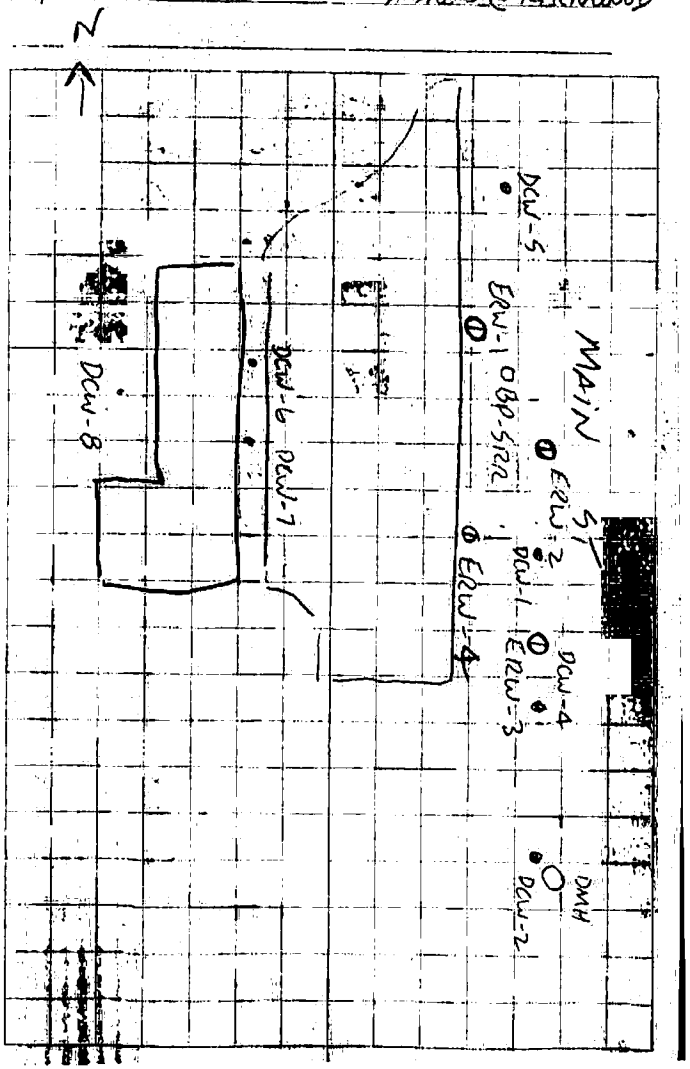
@ 7' A

@ 11' B

9

Location _____ Date _____

Project / Client ANDREW @ KERNWOOD



Location 131 MAIN, CANON Date 8/26/04

Project / Client EAGLE

	PROBE	STATIC	TOTAL
ERW-3	—	7.14	13.6
ERW-4	7.05	7.10	12.7
ERW-2	7.03	7.32	12.8
BP-SRR	5.97	?	9.57
ERW-1	—	6.86	12.90
DCW-7	6.87	8.19	12.2
DCW-4	—	7.12	12.60
DCW-5		5.60	11.95
DCW-6		6.57	12.30

Location _____ Date _____

Project / Client _____

ERW-4 HAS MUCK. NEEDS TO BE VACUUMED.

BP-SRR PRODUCT ALL THE WAY TO BOTTOM OF WELL. PRODUCT CAN BE DEEPER

16

Location EAGLE GAS Date 3/26/04

Project / Client

COLLECTED 2-8oz SAMPLES OF PRODUCT FROM DCW-7

1- 8oz SAMPLE OF PRODUCT FROM DCW-2

2- 8oz " " H2O

2- 8oz SAMPLES OF PRODUCT FROM BP. SRR

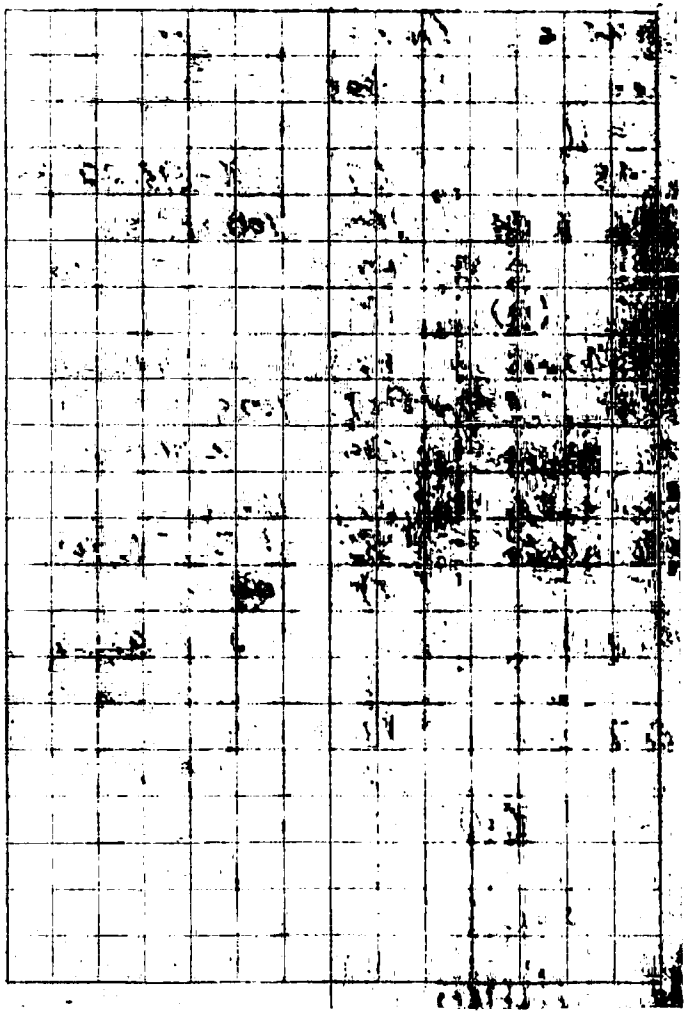
2- 8oz SAMP's OF H2O FROM DCW-1

17

Location Date

Project / Client

GUTENBERG



Location EAGLE GAS Date 10/7/04
Project / Client CARVER

	STATIC	PRODUCT	TOTAL
ERW-3	6.93	—	13.25
DCW-1	6.95	Sheen	11.65
ERW-4	6.53	6.73	12.4
ERW-2	9.58	630	12.73
BP-5RR2	—	5.87	9.50
ERW-1	6.94	634	13.15

22.5" NAPL Measure

DCW-5	5.31	—	11.66
DCW-6	6.28	—	12.85
DCW-7	12.78	5.79	13.1

↳ Bail Count: ~~||||~~ ~~||||~~ ~~||||~~ | still 3" of product

6th bail, started picking up water + sediment

DCW-4	6.84	—	12.42
BPX	6.68	—	12.10

Location Date
Project / Client

Dbennett @ bennett-oreilly.com

508-480-9900

MATT
EMAIL
ROGER AUTH
NO AS-BUILT

34

Location 131 MAIN ST, CARVER Date 10/14/04

Project / Client EAGLE GAS

ERW-2

@ 9 PM 10/13/04 MADA

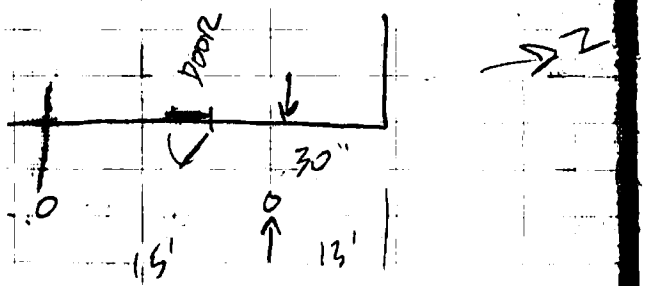
BAILED APP. 6 GALS. PRODUCT.

DEPTH OF NAPL WAS SAME AS LAST WK, ≈ 3 FT.

THIS MORNING @ 10:30 AM

NAPL THICKNESS MEASURED @ 0.3 FT. TOTAL PRODUCT REMOVED AFTER 3 BAILS, ≈ 0.5 GAL

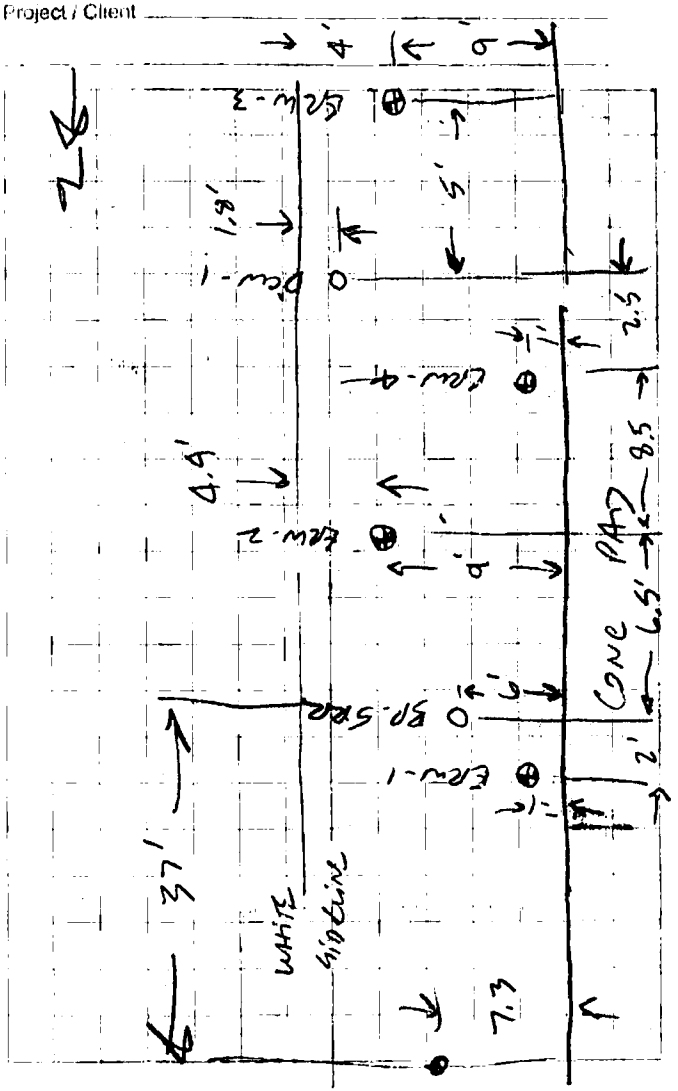
ALL BAILING OCCURRED W/ 1½ IN CLEAR POLY BAILER



35

Location Date

Project / Client



Location 131 MAIN, CARVER Date @ 10/28/04

Project / Client EAGLE

LOCATION	TIME	NAPL	VOL RECOVERED
RAW-1	1600	4 in	1 GAL

SET HELIX PASSIVE RECOVERY UNIT
@ RAW-2. SET + PRIMED UNIT
@ 4:51 EMPTIED HELIX
@ 5:06 UNIT COLLECTED 800 ML
OF DIESEL

Location Date

Project / Client

Location 131 MAIN, CANER Date 11/1/04

Project / Client CABLE GAS

	NAPL	DEPTH
ERW-1	5"	
-4	3"	83"

Location Date

Project / Client

PLACED 4" SORBO INTO ERW-4 @ 4:26 PM

WITHDREW 1/2 LITER NAPL FROM ERW-1 + 1 LITER WATER WITH CLEAR BAILER

WITHDREW 1 L OF NAPL FROM ERW-2 W/ KECK CAN.

Location EAGLE, 131 MAIN CARVER Date 12/2/04

Project / Client 40°F CLOUDY

DCW-7 WITHDREW 2.5 LITERS NAPL
≈ 2 L FUEL ; 0.5 L WATER

BR-SW2 WITHDREW 2.0 L
≈ 0.3 L WATER + SEDIMENT ;
REST NAPL ; 1.7 NAPL

ERW-4 WITHDREW 5.0 L ;
≈ 1 L NAPL + 4 L WATER
COLLECTED 2 VOAS FROM DISSOLVED PH

ERW-1
WITHDREW 4.0 L ;
≈ 1.5 L NAPL + 2.5 L WATER
FROM ZORBO PASSIVE SKIMMER

ERW-2
WITHDREW 2.0 L NAPL
FROM ZORBO PS

Location Date

Project / Client

USED SPECTRA PERISTALTIC
FIELD PRO

TOTAL NAPL COLLECTION

2.0	
1.7	NAPL DISPOSED
1.0	IN 55 GAL DRUM
1.5	INSIDE SERVICE
2.0	BAY
8.2 L	

INSPECTED BOOM, ADJUSTED BOOMS
TOOK PHOTOS

SET WATER MARKS FOR DISCHARGE

Location 131 MAIN, CARVER Date 12/10/04

Project / Client EAGLE GAS

POLICE OFFICERS
CLYDE
DON

GS-1 0-1 PVMT M
1-5 FINE SAND ~~[illegible]~~
5-8 FINE SAND + SILT
≈6-7.5 NAPL 42.1 PPM
TOUCH PHOTO

REV.

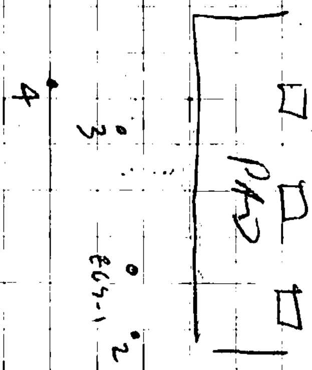
GS-2 0-1 PVMT M
1-4 FINE SAND ~~[illegible]~~
4-6 FINE SAND + SILT
6-7 MOTTLED SAND
7-8 COMPACTED SILT
6.1 PPM

GS-3 0-1 PVMT
1-3 FINE-MED SAND
3-8 FINE SAND + SILT
w/TRACES CLAY
≈6-7.5 NAPL
103 PPM

Location Date

Project / Client

MIKE JOYCE
GEOPROBE 66DT



EGS-4 0-1 PVMT
1-3 F-M S
3-8 FS + SILT w/CLAY
2.8 PPM

Location _____ Date _____

Project / Client _____

EGS-5

SAME AS 4

2.7 PPM

EGS-6

IBID

EGS-7

IBID

EGS-8

IBID

DCW-#9

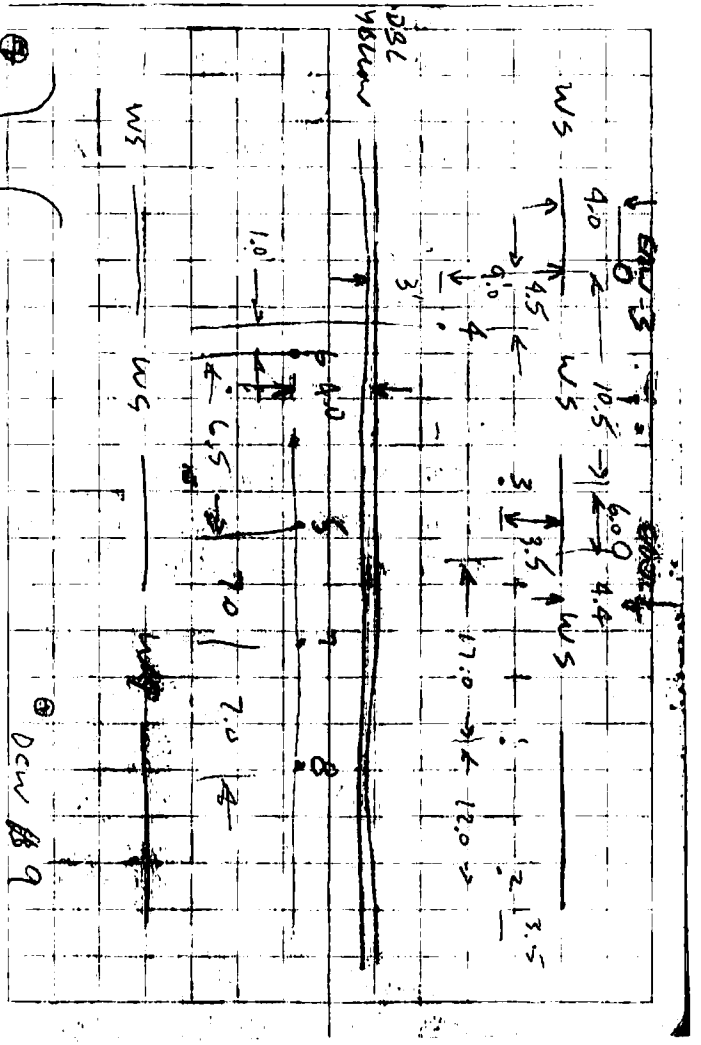
SCREEN 3-13

DCW-#10

SCREEN 2+12

Location _____ Date _____

Project / Client _____



Location EAGLE Date 12/10/2004

Project / Client

DMH
INV. @ 5.88 SOUTH

DMH 5.34 NORTH

24" RC PIPE

CLEANED AT WELLS ERW-1, 2 + 4 WITH CYN VACUUM TRUCK

PRIOR TO SUCK, WITHDREW 2L OF NAPL FROM PRE @ ERW-2 AND 3L OF NAPL FROM ERW-4

Location 131 MAIN, CANVER Date 12/13/04

Project / Client EAGLE

WITHDREW 2L OF W + 2L OF NAPL FROM ERW-4. CLEANED PRE INSIDE STATION; REMOVED DEBRIS + CLAY; AND, RESET IN ERW-4.

WITHDREW 3L OF W + 1L OF NAPL FROM ERW-2. RESET

Location 131 MAIN, CARVER Date 12/16/04

Project / Client EAGLE

CARVER { DAILY
POLICE { MATT

0800 SAWCUT MACHINE FROZEN
0915 BEGIN SAWCUT
1030 BEGAN EXCAVATION W/HOMATSU

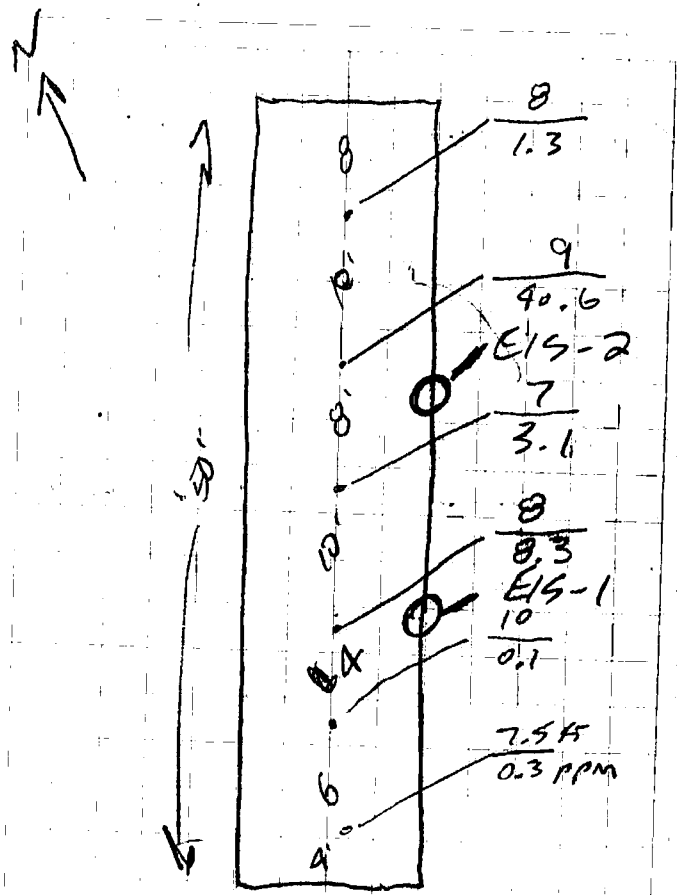
1400 CYN VACUUMED NAPL/WATER
1430

JOHN HANNIGAN - DEP ARRIVED

Location

Date

Project / Client



62

Location 131 MAIN, CAMBRIA Date 12/17/04

Project / Client EAGLE

CAMBRIA DAN PRICE

NAPL RECOVERY

EMW-2 1/2 L WATER 3 1/2 L NAPL

EMW-4 1 L " 3 L NAPL

DAN WAS SPOT INSTALLING CONNECTING 3 FT DEEP TRENCH BETWEEN INTERCEPTOR N AND EAGLE PROPERTY

JON MOBILE + BOB OSHKOSH (DEP ADITS) WERE ON SITE @ 0930

63

Location 131 MAIN, CAMBRIA Date 12/22/04

Project / Client EAGLE

	LIGHTHOUSE EMW EOW-2 OWS STATIC	EOW-1 OWS STATIC
1400	6.74	6.58
1404	STARTED PUMPING	
1406	REACHED 22 IN VACUUM	
1408	≈ 100 GALS.	
1409		7.22
1411		7.50
1413		7.78
1416	7.10	
1417	23 IN	
1418	7.20	PERM'S
1419	≈ 250 GALS	@ 8.25
1423	7.38	
1425	7.46	
1429	7.64	
1430	≈ 650 GALS	
1438	STARTED SUCKING AIR	
1439	7.90	
1440	20 IN VACUUM	

64

Location _____ Date _____

Project / Client _____

DAVE HARRIMAN OFFICER ON DUTY

OWN STACK

1444	~~8.00~~ 8.02
	8.08
1452	8.15
1500	8.32 STARTED VAC
	1100 GALS TOTAL PUMPED
1509	8.44
1511	8.48
1514	8.54
1519	8.68
1525	8.80
1529	8.84
1532	8.92
1537	9.04
1540	9.20
1552	9.26
1557	9.32

65

Location _____ Date _____

Project / Client HISTORICAL COMMISSION

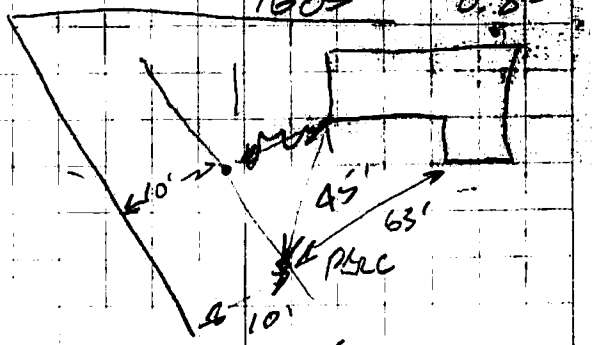
TRUCK #170 87 RED LTZ

CAPACITY	FRONT 1500	REAR 2000	WIPRESS VAC TANK

STEVE PUTNEY, SOUTHERN RAIL

STARTED PLLC @ 1521

1536 @	1.0
1538	~~0.6~~ 0.94
1547	0.90
~~1555~~	~~0.80~~
1605	0.80



1650 0.60

Location 131 Main St Date 2/23/05 13

Project / Client Engle Gas

10:25 Meet Al Pierce

10:28 Start pumping remote 2" line from trench

10:45 while pumping, head down to brook to replace booms with Donny and Jack from Wright Industries

11:40 - replaced 6 of 8 booms as we only had 6 new ones, left other used booms along each bank
- replaced pads

11:45 Stop pumping

Total volume pumped = 1185 gallons from remote 2" line

Location Eagle Gas Date 3/16/05

Project / Client 131 Main St Carver

10:30 Begin full pump from remote 2" line from trench

With Al Pierce - Lighthouse Environmental and Danny - Wright [illegible] sites

11:20 Start sucking air

11:30 Stop pump

total Volume pumped 1050 gal

11:32 empty Canister from EAW[illegible] small amount of liquid, mostly water, only a trickle of product

Location ______ Date ______

Project / Client ______

11:33 Start pumping ERW 1

11:35 Stop pumping ERW 1

11:37 w/ clear 1" tubing Start pumping microwell BP5RR

- foamy yellow oil to start, quickly change to water

11:39 Stop pumping B5RR

11:44 empty canister from ERW2

- filled 4 oil, [illegible] 1 + gallon

11:48 Start pumping ERW2

11:49 Stop pumping ERW2

Location ______ Date ______

Project / Client ______

11:51 Start pumping ERW4

11:53 Stop pumping ERW4

11:58 Start pumping microwell DCW7 w/ 2" tube

- small amt oil to start, good amt of water

11:59 Stop pumping DCW7

---

total volume pumped for 3/16/05 = 1100 gallons

took picture of dirt rock taken out of vacuum truck - formed from silty water separating and collecting

28

Location _____ Date _____

Project / Client _____

12/10 visited the brook to check on booms and pads

- front 3 booms seem to be catching and stopping trapping all the oil from emptying into the brook. these booms look a little brown but not saturated and can probably last longer where they are
- 2 booms that were not replaced last time (on sides of pond) look saturated and need replacing
- back 3-4 booms look very white and clean
- pads are saturated and need replacing as they sit where all the oil is collecting
- like last visit on 2/13/05, oil is collecting + dark brown sludgy clumps - see photos

Location 131 MAIN ST, CARVER Date 4/6/05

Project / Client EAGLE GAS

TEMP

8:30 am Met Mike Connors at Site

60° F

	Static	Total	Began Pump	Quantity	End Pump
BP-1	5.40	13.24	8:00	5 gallons	8:50

slightly cloudy — 4 VOAs - 1 Dups (DC-8) 4 Amber Liters - 1 Dups (DC-10)

BP-2	5.00	13.70	8:05	5 gallons	9:12

Cloudier than BP-1 — 1 VOA, 2 Amber Liters

DCW-8	5.60	13.60	9:33	4 gallons	10:15

slightly cloudy, some silt — 2 Amber Liters

DCW-5	3.64	11.50	9:45	2 gallons	10:40

problems pumping lots of mud and silt
10:05 stop pumping to let well recharge
10:10 start again
10:26 Stop to let recharge
10:32 Start again - smoother flow, more water
End @ 10:40 — 2 Amber Liters

Location Date

Project / Client

	Static	Total	Begin Pump	Quantity	End Pump
DCW-6	3.62	12.60	10:18	2 gallons	10:45

Silty brownish, cloudy water — 2 Amber Liters

DCW-3	4.51	11.00	11:10	5 gallons	11:50

fairly clear water — 2 Amber Liters

DCW-2	5.32	12.32	11:15	2.5 gallons	12:05

cloudy silty — 2 VOA's, 2 Amber Liters

DCW-4	5.18	12.70	12:00	4 gallons	1:00

silty, cloudy water
4 VOAs - 1 Dups (DC-13) 4 Amber Liters - 1 Dups (DC-14)

DCW-1	5.00	11.60	12:10

12:15 Notice pure product is being pumped, decide to pump 10 more minutes to see if it hit water
12:25 Still have not hit water, shut off pump and take no samples
- ran, no longer measure water level depth of wells because device was contaminated there

Location _____ Date _____

Project / Client _____

12:51 Empty canister from ERW-1
- mostly water some product at the end ≈ ½ Liter

	Begin Pump	Total	End Pump
ICE1-5	1:15		

- after 40 minutes, decided pump was dry and moved on

1:10 Empty Canister from ERW-2
- Completely full of pure product
- disposed of all collected product in designated drum

Total Product Disposed of ≈ 4.5 gallons

DCW9	1:55	5 gallons	2:19

cloudy brown water

Location _____ Date _____

Project / Client _____

	Begin Pump	Total	End Pump
PCW-10	2:20	1 gallon	3:06

Cloudy, silty

3:15 Visited South Meadow Brook
- checked on status of booms and pads
- took digital photographs
- pads might need replacing in a couple weeks but overall water looks much clearer and cleaner than last visit
- booms in good shape for now (See digital photographs)

Location 131 Main St, Carver Date 4/13/05

Project / Client Eagle Gas

48°F

11:50 Arrive @ Site
Meet Al Pierie from Light house Env.

Started pump @ remote 1" well from trench at 10:50

Stopped pump @ 11:30 = 1250 gallons

11:20 Paul Wright from Wright Industries arrive)

11:55 Empty Canister from ERW-1
looks like its not working properly - drizzles out small amount of product collected ~0.5L
put back in ERW1 w/ plans to take apart and examine next week

11:59 Start pumping ERW1
12:01 Stop pumping ERW1

Location Date

Project / Client

12:05 empty Canister from ERW-2
some water ≈ 1.5 gallons
product, seems to be working fine

12:07 Start pump ERW2
12:09 Stop pump ERW2

12:11 Start pump ERW-4
12:13 Stop pump ERW-4

12:28 Start pump microwell BB 5RR with clear plastic tube
- some product for about 2 seconds, then water

12:30 Stop pump BB 5RR

12:33 Start pump microwell DCW-7
looks like mostly silty water

12:35 Stop pump DCW-7

Total gallons pumped: 1275 gallons

Location _____ Date _____

Project / Client _____

11:45 Visited brook with Paul Wright to check on condition of booms and pads. Booms are in good shape and are preventing product from moving past the barrier they create. Pads are close to being saturated, so at next week's visit they will be replaced. Took photos.

6

Location 131 MAIN ST, CARVER Date 4/20/05

Project / Client EAGLE GAS

SUNNY 75°

ARRIVED @ SITE @ 8:30. MET MIKE CONNORS OF GEOLABS.

BEGAN PUMPING OCW-1 @ 8:45. MIXTURE OF NAPL + WATER. REMOVED APP. 2 LITERS OF NAPL. COLLECTED LNAPL FOR FINGERPRINT

REMOVED PRC FROM OCW-1. INSPECTED + CLEANED. TOOK PRC APART + OUT OF SERVICE. 6 L OF NAPL REMOVED @ 1130

REMOVED DRAIN MH IN FRONT OF STA. OBSERVED SIGNIFICANT FLOW W/ SHEEN. TOOK PHOTOS + COLLECTED LNAPL + VAPH SAMPLES. SET BOOM IN MH. LABELED DMH-A

PUMPED NAPL FROM OCW-4. TOTAL NAPL PUMPED OVER 1.5 HRS = 9 GALS OR ≈ 34 L

7

Location \ Date

Project / Client

Location 131 Main St, Gerver Date 5/18

Project / Client Eagle Gas 60°F

1:30 pm - Joel Cohen and Naja visit South Meadow Brook
- replace all pads and 4 booms
- put all but 2 booms in 55 gallon drum present at brook, remaining 2 used booms went back inside the plastic bag the fresh booms came from

See photographs

3:05 Start pumping Microwell DCW7 with Spectra Scientific Field Pro Peristaltic Pump

3:08 Stop pumping DCW7

- Collected ~1¼ L Product from DCW7

Location Date

Project / Client

3:39 - empty canister (PRC) at well ERW2
- recover ~2.5 L product

3:43 pumped microwell BPSRR w/ peristaltic pump

3:45 stopped pumping BPSRR recovered ~1/8 L product

3:49 pumped ERW1

3:58 stopped pumping ERW1 recovered ~ 1L product

4:00 started pumping ERW4

4:07 stopped pumping ERW4 recovered ~ ½ L product
↳ product seemed lighter in colour and thinner than product recovered from other wells

Location Date

Project / Client

- due to a tree cutting operation across the street and the resultant blocking of 1 lane, we were unable to remove the manhole cover to check for a screen in the storm drain pipe

18

Location 131 Main Street Carver Date 6/8

Project / Client Eagle Gas

86°F

10:56 arrive at site

11:01 Start pumping ERW1 with peristaltic pump

11:09 stop pump - collected ~ 1 gallon product before pumping clear water product looks especially dark and thick - see pictures

11:17 attempt to pump BPBTR but cannot inject tubing far enough into pipe it gets caught on something (perhaps where two pipes meet but do not line up)

11:25 empty PLC at ERW1 filled with Product 1-3 L

11:27 Start peristaltic pump at ERW1

11:45 stop pump in order to empty full bucket in drum beside mechanic area collected ~ 3-4 gallons Product

Location Date

Project / Client

11:52 begin pumping ERW1 again

product from ERW1 looks much lighter than that from ERW1 (see photos)

12:02 Stop pump at ERW1 after only pumping clear water collect this time ~ 2 gallons total from both pumps = Product 5-6 gallons

12:04 start pump at ERW4

12:17 stop pump in order to empty bucket So far collected ~ 3 gallons light colored product similar to ERW1

12:20 resume pump at ERW4

12:45 Stop pump after pumping clear water

Location _____ Date _____

Project / Client _____

collected this time: ~ 5 gallons
total product collected at ERW4 ≈ 8 gallons

12:51 start pump at DCW-7

12:57 - stop pump after pumping clear water
collected ~ 1/4 gallon product
product darker in color similar to ERW 1 (see photos)

2:15 visit Snook
- it looks like pads need replacing, and 4-5 booms need replacing
- product collecting at mouth of drain pipe, but system of booms and pads prevents it from infiltrating the brook

2:45 lift manhole with help of DPW workers to inspect drain pipe
- sheen present

Location _____ Date _____

Project / Client _____

Location 131 MAIN ST, CARVER   Date 6/17/05

Project / Client EAGLE GAS

NAPL RECOVERY

BP-5RR	@	1040	0.4 LITER (L)
ERW-1	@	1050	1.2 L
DCW-7	@	1110	0.6 L
ERW-4	@	1125	15.0 L
ERW-2 (PRC)	@	1140	5.0 L
			22.2 L = 5.8 GAL

SHUTTLECOCK LEFT OPEN ON PRC BERGE. ENSURED VALVE CLOSED BEFORE

EMPTIED ALL NAPL INTO DRUM #2. DRUM IS 7/8 FULL

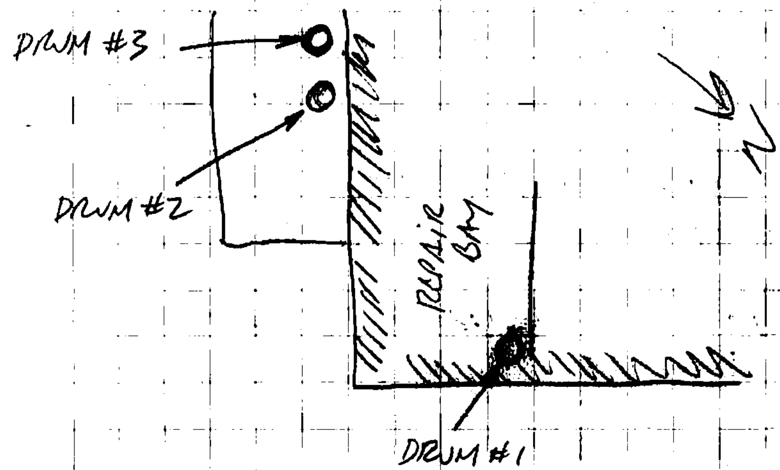
PRODUCT REMOVED W/SAME POLY/SILICON TUBING INSERTED INTO EACH WELL POINT. SPECTRA FIELD PRO PERISTALTIC USED.

Location

Date

Project / Client

INSPECTED BOTH STORM DRAINS. NO NAPL OR SHEEN IDENTIFIED. TOOK PHOTOS.



Location 131 Main St Carver Date 7/12/05

Project / Client Eagle Gas

84°F

2:50 arrive at Eagle Gas

2:55 Begin pumping at ELW1 with Spectra Scientific Field Pro Peristaltic Pump

3:00 No more product coming from well, Stop pump
- collected ~ ½ L product

3:05 - Empty PRC from ELW2
- little to no product - GW has dropped below the bottom of PRC
- lengthen PRC rope about 6" so it can reach GW

3:20 - Start pump at ELW-2

3:22 - No more product, stop pump
- collected ¼ L product

3:30 - start pump at ELW-4

3:33 - No more product, stop pump
- collected ~ ¼ L product

Location Date

Project / Client

3:40 - Start pump at Microwell DCW7

3:45 - No more product, stop pump
- collected ~ ½ L product

Total Product Collected = 1.5L

- emptied product into Drum #2 beside mechanics' bay
- drum #2 is now full

3:50 - visit / inspect South Meadow Brook
- outfall looks cleaner than last visit (5/18)
- water clear with much less oil pollution
- booms and pads in good condition
See photos

EXHIBIT B

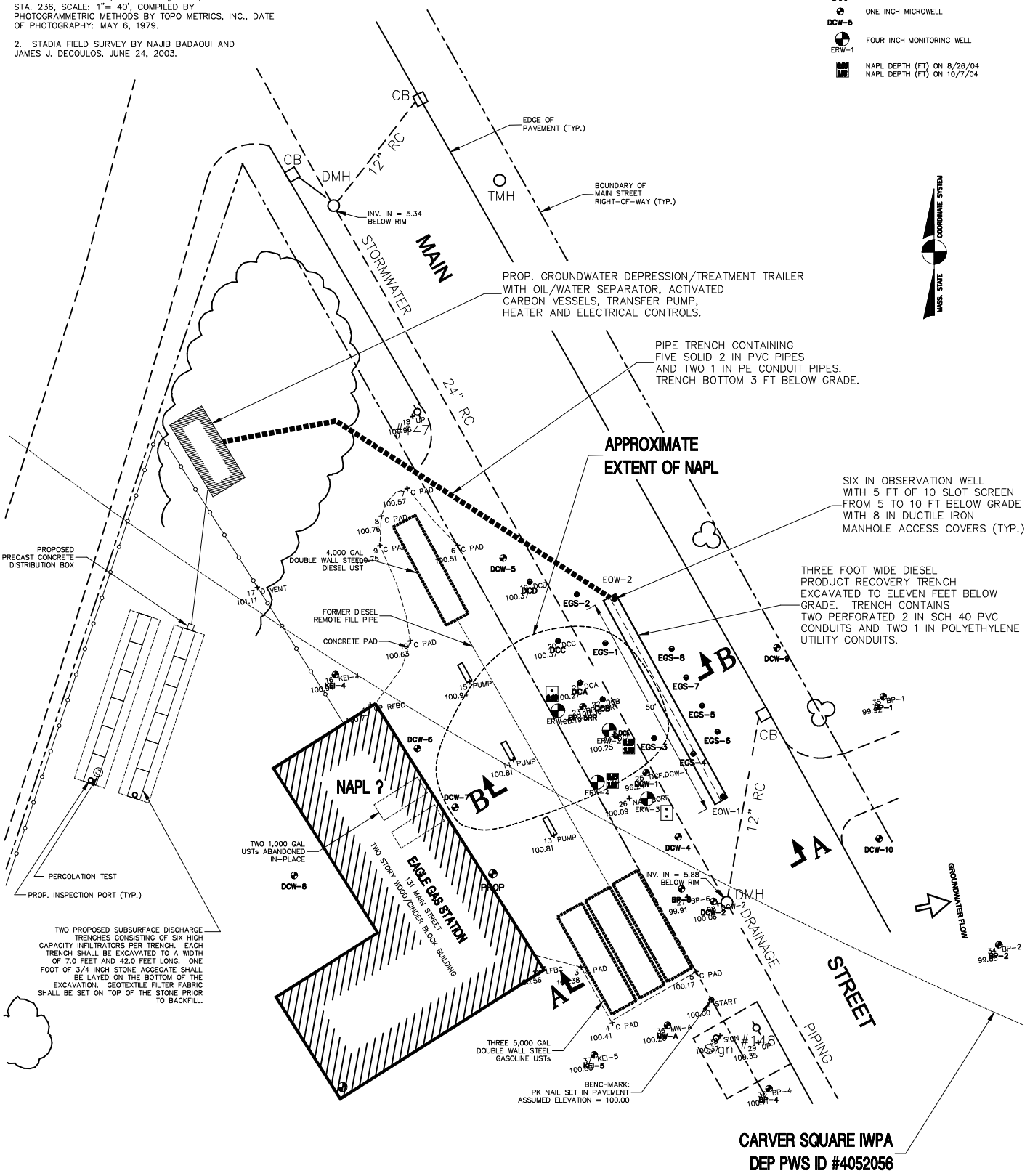
REFERENCES

1. LAYOUT OF ROUTE 58, WAREHAM – CARVER, MA HIGHWAY DEPARTMENT, CONTRACT #20907, STA. 213 TO STA. 236, SCALE: 1"= 40', COMPILED BY PHOTOGRAMMETRIC METHODS BY TOPO METRICS, INC., DATE OF PHOTOGRAPHY: MAY 6, 1979.

2. STADIA FIELD SURVEY BY NAJIB BADAOUI AND JAMES J. DECOULOS, JUNE 24, 2003.

LEGEND

- DCC — ONE INCH SOIL BORING
- DCW-5 — ONE INCH MICROWELL
- ERW-1 — FOUR INCH MONITORING WELL
- NAPL DEPTH (FT) ON 8/26/04
- NAPL DEPTH (FT) ON 10/7/04



DECOULOS & COMPANY
185 ALEWIFE BROOK PKWY, CAMBRIDGE, MA 02138
WWW.DECOULOS.COM
617.489.7795

PROPOSED PRODUCT RECOVERY EAGLE GAS STATION CARVER, MASSACHUSETTS

DATE
JUL 2005
SCALE
1"= 30'
FIGURE NO.
4

EXHIBIT C

To: cynthia.baran@state.ma.us (Cynthia Baran)
From: "James J. Decoulos" <jamesj@decoulos.com>
Subject: Eagle Gas product and air analysis
Cc:
Bcc:
Attached: c:\program files\qualcomm\eudora\attach\L0409661.pdf; C:\IBM HD\Xls\Eagle Gas\Eagle Geolabs Air Data 082704.xls;

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

To: cynthia.baran@state.ma.us (Cynthia Baran)
From: "James J. Decoulos" <jamesj@decoulos.com>
Subject: Eagle Gas, Carver
Cc:
Bcc:
Attached: \\james-john\JJ D Drive\PDFs\Eagle Gas\Alpha Product Analysis + Chromatographs 091004.pdf;

Cynthia,

Attached is a modified 8100 product analysis from the recent microwell in front of the building (DCW-7) and the two wells in front of the pumps within the Main Street right-of-way (ERW-2 and BP-5RR). The chromotagraphs are also attached.

Jim

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

To: mdavis@alphalab.com (Mary Davis)
From: "James J. Decoulos" <jamesj@decoulos.com>
Subject: Peak Area Reports
Cc:
Bcc:
Attached: C:\PDFs\Haz Waste - Petroleum Technical Topics\Chemical Changes of Hydrocarbons, GW Mon & Rem, Fall, 1996.pdf; C:\PDFs\Haz Waste - Petroleum Technical Topics\Method for Determining Age of Oil Spills, GW Mon & Rem, Fall, 1993.pdf;

Mary,

In July of 2002, I attended an LSP course entitled "Environmental Chemistry and the Emergence of Forensic Geochemistry" taught by Michael J. Wade, Ph.D., Wade Research, Inc., 110 Holly Road, Marshfield, MA 02050-1724. Michael can be reached by telephone/fax at 781-837-5504; email: mjwade@waderesearch.com; web: www.waderesearch.com

Michael believes that petroleum fingerprinting does not require a mass spectrometer and the specialized expertise of labs such as Patel. All the data we need can be obtained from you (the lab) by normal GC/FID and GC/PID analysis.

He encouraged us to obtain "Peak Area Reports" from our labs that provide information on the detailed normal alkanes and isoprenoids (IPs). Additionally, the Peak Area Reports allow us to plot the unresolved complex mixtures (UCMs) of petroleum hydrocarbons.

Michael taught us how to use the raw n-alkanes, IPs and UCMs to establish very important information conclusions on our sites.

It is not difficult for you to provide this data. It is automatically generated from the software that your GC manufacturer provides. Some labs are providing Peak Area Reports to consultants by emailing the data to them in Microsoft Excel format. This is the information I am seeking for the job in Carver.

I would be glad to review any of the information from the course with you. I have attached two technical papers on this topic in Adobe Acrobat (pdf) format.

Please feel free to call or email if you have any questions or concerns. Thanks.

Jim

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

tel: 617-489-7795

From: "Mary Davis" <mdavis@alphalab.com>
To: "'James J. Decoulos'" <jamesj@decoulos.com>
Subject: RE: Peak Area Reports
Date: Tue, 28 Sep 2004 09:40:47 -0400
X-Mailer: Microsoft Office Outlook, Build 11.0.5510
Thread-Index: AcSlTwbm1SALjQUdSTKadnq4yiZxkQAEXF5g
X-NAS-Bayes: #0: 0; #1: 1
X-NAS-Classification: 0
X-NAS-MessageID: 6279
X-NAS-Validation: {8FD35744-79E1-4653-A88A-3E736253B10C}

Hi Jim

Thank you for providing all of this information. I have forwarded your email to our Lab Staff. I should be in touch with you soon.

Mary Davis
Alpha Analytical Labs

From: James J. Decoulos [mailto:jamesj@decoulos.com]
Sent: Tuesday, September 28, 2004 7:42 AM
To: Mary Davis
Subject: Peak Area Reports

Mary,

In July of 2002, I attended an LSP course entitled "Environmental Chemistry and the Emergence of Forensic Geochemistry" taught by Michael J. Wade, Ph.D., Wade Research, Inc., 110 Holly Road, Marshfield, MA 02050-1724. Michael can be reached by telephone/fax at 781-837-5504; email: mjwade@waderesearch.com; web: www.waderesearch.com

Michael believes that petroleum fingerprinting does not require a mass spectrometer and the specialized expertise of labs such as Patel. All the data we need can be obtained from you (the lab) by normal GC/FID and GC/PID analysis.

He encouraged us to obtain "Peak Area Reports" from our labs that provide information on the detailed normal alkanes and isoprenoids (IPs). Additionally, the Peak Area Reports allow us to plot the unresolved complex mixtures (UCMs) of petroleum hydrocarbons.

Michael taught us how to use the raw n-alkanes, IPs and UCMs to establish very important information conclusions on our sites.

It is not difficult for you to provide this data. It is automatically generated from the software that your GC manufacturer provides. Some labs are providing Peak Area Reports to consultants by emailing the data to them in Microsoft Excel format. This is the information I am seeking for the job in Carver.

I would be glad to review any of the information from the course with you. I have attached two technical papers on this topic in Adobe Acrobat (pdf) format.

Please feel free to call or email if you have any questions or concerns. Thanks.

To: dkahler@geolabs.com (Dave Kahler)
From: "James J. Decoulos" <jamesj@decoulos.com>
Subject: Peak Area Reports
Cc: jchen@geolabs.com (Jim Chen)
Bcc:
Attached:

David and Jim,

Last July, I attended an LSP course entitled "Environmental Chemistry and the Emergence of Forensic Geochemistry" taught by Michael J. Wade, Ph.D., Wade Research, Inc., 110 Holly Road, Marshfield, MA 02050-1724. Michael can be reached by telephone/fax at 781-837-5504; email: mjwade@waderesearch.com; web: www.waderesearch.com

Michael threw out concepts that will change the way LSPs request data from labs in the future. He believes that petroleum fingerprinting does not require a mass spectrometer and the specialized expertise of labs such as Patel. All the data we need can be obtained from you (the lab) by normal GC/FID and GC/PID analysis.

He encouraged us to obtain "Peak Area Reports" from our labs that provide information on the detailed normal alkanes and isoprenoids (IPs). Additionally, the Peak Area Reports allow us to plot the unresolved complex mixtures (UCMs) of petroleum hydrocarbons. These reports will allow us to plot all the data you collect when you issue an EPH or VPH report, which is MUCH more than what we receive now.

Michael taught us how to use the raw n-alkanes, IPs and UCMs to establish very important information conclusions on our sites.

It is not difficult for you to provide this data. It is automatically generated from the software that your GC manufacturer provides. Some labs are providing Peak Area Reports to consultants by emailing the data to them in Microsoft Excel format. This is the information I requested last week in my COC for a job in Carver.

I would be glad to review any of the information from the course with either of you. Please feel free to call or email if you have any questions or concerns. Thanks.

Jim

EXHIBIT D

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.

Eight Walkup Drive, Westborough, MA 01581-1019
Tel: 508-898-9220 or 800-624-9220 x179
Fax: 508-898-9193 Visit us at: www.alphalab.com
Michelle M. (Wiita) Morris, Client Services
Direct Phone Line: ***508-439-5179***
Email: **mwiita@alphalab.com**

Fax

To: Jim Decoulos **From:** **Michelle M. (Wiita) Morris**

Company: Decoulous&Company **Pages:** 4

Fax: 877-842-9629 **Date:** 9/17/04

Re: Chromatograms **CC:**

L0409661

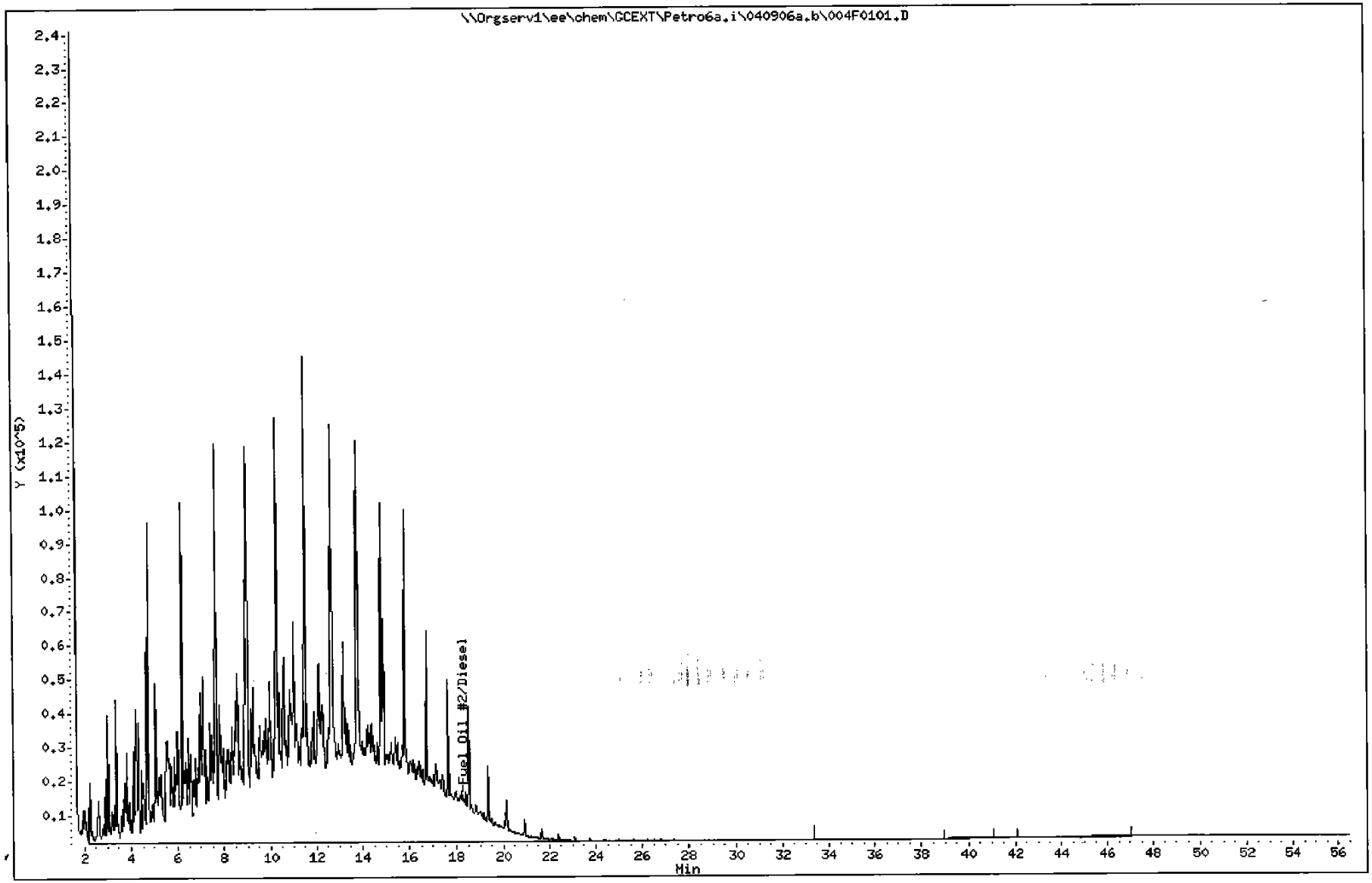
- **Comments:**

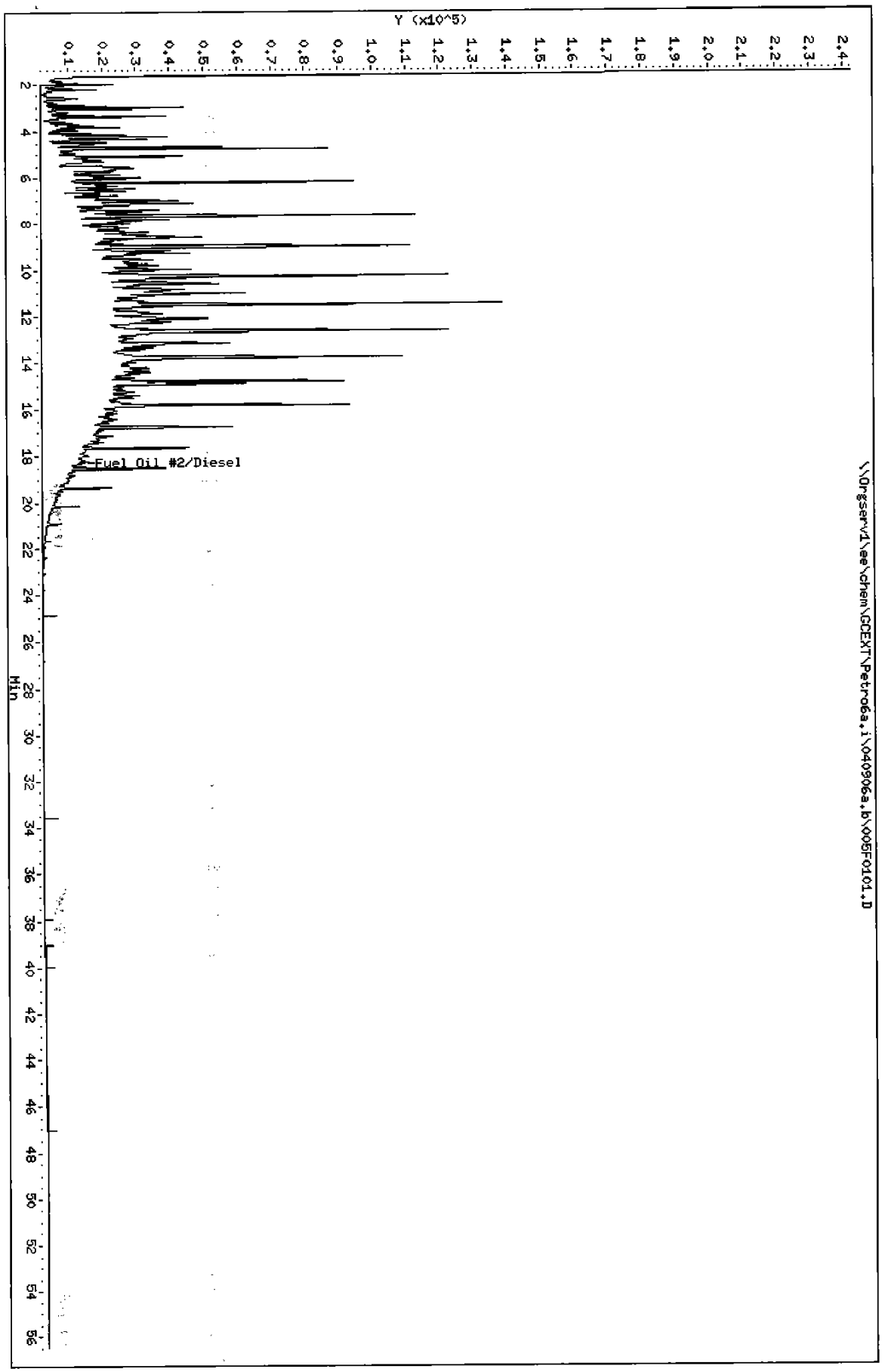
Data File: \\Orgserv1\ee\chem\GCEXT\Petro6a.i\040906a.b\004F0101.D
Date : 06-SEP-2004 20:21
Client ID:
Sample Info: 10409661-01, 8100-s, x20 rr

Column phase:

Instrument: Petro6a.i

Operator: msh
Column diameter: 0.53

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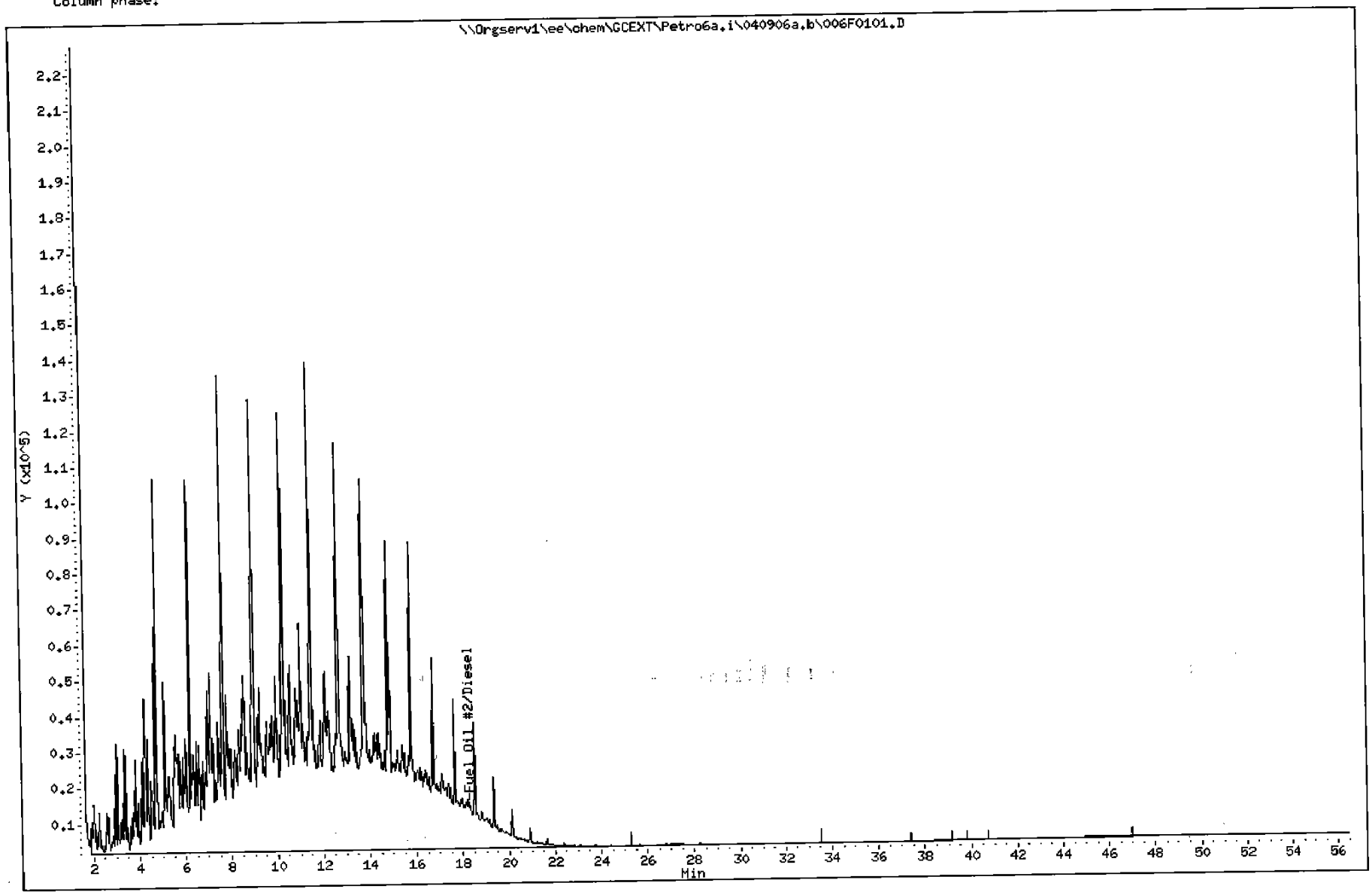
Date : 06-SEP-2004 21:25
Client ID:
Sample Info: 10409661-02, 8100-s, x20 rr
Column phase:
Instrument: Petro6a.i
Operator: msh
Column diameter: 0.53
\\Orgserv1\ee\chem\GCEXT\Petro6a.i\040906a.b\005F0101.D
Y (x10^5)
Fuel Oil #2/Diesel
Min

Data File: \\Orgserv1\ee\chem\GCEXT\Petro6a.i\040906a.b\006F0101.D
Date : 06-SEP-2004 22:29
Client ID:
Sample Info: 10409661-03, 8100-s, x20 rr

Instrument: Petro6a.i

Operator: msh
Column diameter: 0.53

Column phase:



GeoLabs, Inc.

Environmental Laboratories

LABORATORY REPORT

PREPARED FOR:

Decoulos & Company
185 Alewife Brook Parkway
Cambridge, MA 02138

Attn: Jim Decoulos

PROJECT ID:	616 131 Main Street Carter, MA
GEOLABS CERTIFICATION #:	M-MA015
SAMPLE NUMBER:	0504281 (001-002)
DATE PREPARED:	April 27, 2005
PREPARED BY:	Karen Mullally
APPROVED BY:	Jim Chen, Laboratory Director

GeoLabs, Inc.
Environmental Laboratories

MADEP MCP Response Action Analytical Report Certification Form

Laboratory Name:	GeoLabs, Inc.	Project #:	616
Project Location:	131 Main Street	MADEP RTN:	

This form provides certifications for the following data set: 0504281 (001-002)

Sample matrices: Groundwater (x) Soil / Sediment ( ) Drinking Water ( ) Other (x) OIL

MCP SW-846 Methods Used	8260B ( )	8151A ( )	8330 ( )	6010B ( )	7470/1A ( )	Other: (x) 8100M
	8270C ( )	8081A ( )	VPH (x)	6020 ( )	9014M[2] ( )	
	8082 ( )	8021B ( )	EPH (x)	7000 S[3] ( )		

As specified in MADEP Compendium of Analytical Methods (Check all that apply)
1- List Release Tracking Number (RTN), if known
2- M - SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Meth
3- S - SW-846 Methods 7000 Series (List individual method and analyte)

An affirmative response to questions A, B, and C is required for "*Presumptive Certainty*" status

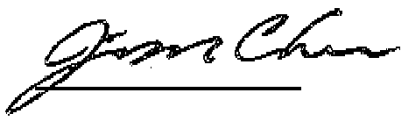
A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	Yes (x)	No[1] ( )
B	Were all QA/QC procedures required for the specified analytical method(included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	Yes (x)	No[1] ( )
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in Section 2.0 of the MADEP documents CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (x)	No[1] ( )

A response to questions D and E below is required for "*Presumptive Certainty*" status

D	Were all QC performance standards and recommendations for the specified methods achieved?	Yes (x)	No[1] ( )
E	Were results for all analyte-list compounds/elements for the specified method(s) reported?	Yes (x)	No[1] ( )

[1]All NO answeres must be addressed in an attached Environmental Laboratory case narrative.

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 analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:  Position: Lab Director

Printed Name: Jim Chen Date: April 27, 2005

GeoLabs, Inc.

Environmental Laboratories

Case Narrative

Project ID: 616
Client Name: Decoulos & Company

Sample Number: 0504281 (001-002)
Received: 04/20/05

Physical Condition of Samples

This project was received by the laboratory in satisfactory condition. The sample (s) were received undamaged, in appropriate containers with the correct preservation, with the following exceptions.

1. Samples received on ice at 23 degrees C.

Project Documentation

This project was accompanied by satisfactory Chain of Custody documentation. The sample container label(s) agreed with the Chain of Custody.

Analysis of Sample(s)

No analytical anomalies or non-conformances were noted by the laboratory during the processing of these sample(s).

GeoLabs, Inc.
Environmental Laboratories

SAMPLE INFORMATION

Matrix	☒ Aqueous ☐ Soil ☐ Sediment ☐ Other
Containers	☒ Satisfactory ☐ Broken ☐ Leaking
Aqueous Preservative	☐ N/A ☒ pH ≤ 2 ☐ pH > 2 Comment:
Temperature	☒ Received on ice ☐ Received at 4° C ☐ Other
Extraction Method	Water: Separatory Funnel Soil:

FULL EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1						
Method for Target Analyte: 8270 GC/MS				Client ID:	DMH-A	
Method for PAH Targets: GC/MS				Lab ID:	002	
EPH Surrogate Standards:				Date Collected:	04/20/05	
Aliphatic COD				Date Received:	04/20/05	
Aromatic OTP				Date Extracted:	04/22/05	
				Date Fractions Analyzed:	04/27/05	
EPH Fractionation Surrogates				Date Targets Analyzed:	04/27/05	
2-Fluorobiphenyl				Dilution Factor:	1.0	
2-Bromonaphthalene				Total solids (%):	N/A	
Range/Target Analyte		RL	Units			
Unadjusted C11-C22 Aromatics[1]		100	(µg/L)	ND		
Diesel PAH Analytes	**Naphthalene**	1.00	(µg/L)	**3.27**		
	2-Methylnaphthalene	1.00	(µg/L)	**4.30**		
	Acenaphthene	1.00	(µg/L)	ND		
	Phenanthrene	1.00	(µg/L)	ND		
Other Target PAH Analytes	Acenaphthylene	1.00	(µg/L)	ND		
	Fluorene	1.00	(µg/L)	ND		
	Anthracene	1.00	(µg/L)	ND		
	Fluoranthene	1.00	(µg/L)	ND		
	Pyrene	1.50	(µg/L)	ND		
	Benz[a]Anthracene	1.00	(µg/L)	ND		
	Chrysene	1.00	(µg/L)	ND		
	Benzo[b]Fluoranthene	1.00	(µg/L)	ND		
	Benzo[k]Fluoranthene	0.120	(µg/L)	ND		
	Benzo[a]Pyrene	0.080	(µg/L)	ND		
	Indeno[1,2,3-c,d]Pyrene	0.240	(µg/L)	ND		
	Dibenzo[a,h]Anthracene	0.500	(µg/L)	ND		
	Benzo[g,h,i]Perylene	1.50	(µg/L)	ND		
C9-C18 Aliphatic Hydrocarbons[1]		100	(µg/L)	**193**		
C19-C36 Aliphatic Hydrocarbons[1]		100	(µg/L)	ND		
C11-C22 Aromatic Hydrocarbons[1,2]		100	(µg/L)	ND		
Aliphatic Surrogate % Recovery (COD)				94%		
Aromatic Surrogate % Recovery (OTP)				81%		
Sample Surrogate Acceptance Range				40-140%		
2,2'-Difluorobiphenyl % Recovery				64%		
2-Fluorobiphenyl % Recovery				42%		
Fractionation Surrogate Acceptance Range				40-140%		

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range
[2]C_{11}-C_{22} Aromatic Hydrocarbons exclude concentrations of Target PAH Analytes.

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? ☒ Yes ☐ No - Details attached
Were all performance/acceptance standards acheived? ☒ Yes ☐ No - Details attached
Were any significant modifications made to the EPH method?? ☒ No ☐ Yes - Details attached

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

SIGNATURE: POSITION: Lab Director

PRINTED NAME: Jim Chen DATE: 4/27/2005

GeoLabs, Inc.
Environmental Laboratories

EPH - QC - Ranges
EXTRACTABLE PETROLEUM HYDROCARBONS

	QC RESULTS						
	Method Blank	MDL (µg/L)	Spike % Recovery 1	Spike % Recovery 2		RPD	%
*c9-c18 Aliphatics	57.2	100	43	46.6	40-140	6.6	≤ 50
c19-c36 Aliphatics	21.8	100	86.7	86.1	40-140	0.6	≤ 50
c11-c22 Aromatics	70.6	100	51.6	47.3	40-140	7.5	≤ 50

Surrogate % Recovery:

COD	70%	40-140	65%	67%	40-140	3.60%	≤ 50
OTP	67%	40-140	71%	65%	40-140	7.80%	≤ 50

EPH - QC Target Analyte
EXTRACTABLE PETROLEUM HYDROCARBONS

	QC RESULTS			
	Method Blank	Spike % Recovery 1	Spike % Recovery 2	Limits %
Acenaphthene	ND	50%	44%	40-140%
Phenanthrene	ND	62%	57%	40-140%
Pyrene	ND	77%	74%	40-140%
Chrysene	ND	85%	80%	40-140%
Indeno [1,2,3-cd] pyrene	ND	71%	68%	40-140%

CHAIN OF CUSTODY

GeoLabs CHAIN NUMBER: 0504281

CHECKED ITEMS MUST BE FILLED IN | 24/48 HOUR RUSHES ONLY WITH APPROVAL OF D. KAHLER OR LAB DIRECTOR

GeoLabs, Inc.
Environmental Laboratories
45 Johnson Lane
Braintree, MA 02184
Office: 781-848-7844
Fax: 781-848-7811

Turnaround Time
RUSH: 24-48hrs ☐ 72hrs ☐ STANDARD: 5 Days ✓
RUSH APPROVED BY: X

Page ___ of ___

SPECIAL INSTRUCTIONS
NEED FINGERPRINT TO DETERMINE IF PRODUCT IS GASOLINE OR DIESEL
run Oil portion JN 4/20

Note: JOBS WITH INCOMPLETELY FILLED OUT CHAINS WILL NOT BE RUN. CHAIN WILL BE RETURNED TO CLIENT FOR COMPLETION

TYPE OF CLIENT: BUS ___ LAB ___ HOMEOWNER ___ | NOTE: HOMEOWNERS, LAW FIRMS MUST PAY WHEN DROPPING OFF SAMPLES

Client: X DECOULOS + Co
Address: X 185 ARLINGTON NO P.O. BOXES
BROOK PARKWAY, CAN
Phone: X 617-489-7795
Fax: 877-842-9629
Contact: X JIM
E-mail: JAMESJ@DECOULOS

Project Number: X 616
Project Location: X 131 MAIN ST CANTON, MA
Purchase Order #:
Collected By: X MC + JD

CHANGES REQUESTED? Y N
BY DATE
Change to Rush client Spoke to Dave 4/22/05
Received on ice? ☐

ANALYSES REQUESTED

SAMPLE ID	COLLECTION DATE	TIME	SAMPLED BY	SAMPLE LOCATION	CONTAINER TYPE	CONTAINER QUANT	MATRIX	COMP	GRAB	PRES	GEOLABS SAMPLE NUMBER	Fingerprint Oil	EPH	VPH						TEMPERATURE	LAB pH
DCW-1	4/20	1000	MC/JD		A	1	GW		X		4251-001	✓								23°	
DMH-A	4/20	1100	MC/JD		A/V	4	GW		X		-002		✓	✓						6	

Verbal results given to ___ by (date/initial) ___

MATRIX CODES:
GW = Ground Water
WW = Wastewater
DW = Drinking Water
SL = Sludge
S = Soil A = Air
O = Oil OT = Other

CONTAINER CODES:
A = Amber B = Bag
G = Glass P = Plastic
S = Summa Canister
O = Other V = VOA

PRESERVATIVE CODES:
1 = HCl 5 = NaOH
2 = HNO_3 6 = MeOH
3 = H_2SO_4 7 = ICE
4 = $Na_2S_2O_3$

Terms: Payment due within 30 days unless other arrangements are made.
Past due balances subject to interest and collection costs.

Relinquished By:	Date/Time	Received By:	Date/Time:
PRINT:	4/20/05 2:15		
Relinquished By:		Received By:	
Relinquished By:		Received By GeoLabs: 4/20/05 Danielle Rizzo	2:15p

GeoLabs, Inc.
Environmental Laboratories

SAMPLE INFORMATION

Matrix	☒ Aqueous ☐ Soil ☐ Sediment ☐ Other		
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	☐ Other
Temperature	☒ Received on ice ☐ Received at 4° C ☐ Other		

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH
Method for Target Analytes: MADEP VPH
VPH Surrogate Standards
PID (2,5-Dibromotoluene)
FID (2,5-Dibromotoluene)

Client ID:	DMH-A
Lab ID:	002
Date Collected:	04/20/05
Date Received:	04/20/05
Date Analyzed:	04/25/05
Dilution Factor:	1.0
Total solids (%):	N/A

Range/Target Analyte	Elut. Range	RL	Units			
Unadjusted C_5-C_8 Aliphatics[1]	N/A	40	ug/L	ND		
Unadjusted C_9-C_{12} Aliphatics[1]	N/A	15	ug/L	ND		
Methyl tert-butyl ether	C_5-C_8 Aliph.	5	ug/L	23.1		
Benzene	C_5-C_8 Aliph.	5	ug/L	ND		
Toluene	C_5-C_8 Aliph.	5	ug/L	ND		
Ethylbenzene	C_9-C_{12} Aliph.	5	ug/L	ND		
m&p-Xylenes	C_9-C_{12} Aliph.	5	ug/L	ND		
o-Xylene	C_9-C_{12} Aliph.	5	ug/L	ND		
Naphthalene	N/A	20	ug/L	ND		
C5-C8 Aliphatic Hydrocarbons[1,2]	N/A	40	ug/L	ND		
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	15	ug/L	ND		
C9-C10 Aromatic Hydrocarbons[1]	C_9-C_{12} Aliph.	55	ug/L	ND		
2,5-Dibromotoluene (PID) Surrogate Recovery				88%		
2,5-Dibromotoluene (FID) Surrogate Recovery				83%		
Surrogate Acceptance Range				70-130%		

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range
[2]C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
[3]C_9-C_{12} Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons

CERTIFICATION

Were all QA/QC procedures REQUIRED by the VPH 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 VPH method, as specified in Sect 11.3.? ☒ No

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: 04/27/05

GeoLabs, Inc.
Environmental Laboratories

Matrix: Water µg/L	LCS %	Limit	BLANK
MTBE	80%	70-130%	ND
Benzene	102%	70-130%	ND
Toluene	119%	70-130%	ND
Ethyl Benzene	112%	70-130%	ND
m,p-xylene	129%	70-130%	ND
o-xylene	120%	70-130%	ND
Naphthalene	113%	70-130%	ND
Surrogate Recoveries:			
2,5-Dibromotoluene (PID)	100%		97%
2,5-Dibromotoluene (FID)	91%		92%

GeoLabs, Inc.
Environmental Laboratories

CLIENT NAME:	**Decoulos & Co.**	PROJECT ID:	131 Main St.
SAMPLE TYPE:	OIL/WATER	REPORT DATE:	04/2705
COLLECTION DATE:	04/20/05	ANALYZED BY:	GP
REC'D BY LAB:	04/20/05	EXTRACTION DATE:	04/26/05
COLLECTED BY:	CLIENT	DIGESTION DATE:	04/25/05

PETROLEUM HYDROCARBON SCAN

SAMPLE NUMBER: 001
SAMPLE LOCATION: DCW-1

100 X Dilution	**RESULTS (%)**	**DETECTION LIMIT (%)**
DIESEL/FUEL #2	ND	1.0
FUEL OIL #4	ND	1.0
FUEL OIL #6	ND	1.0
GASOLINE	ND	1.0
KEROSENE/JET FUEL	ND	1.0
MOTOR OIL	ND	1.0
TRANSFORMER OIL	ND	1.0
PARAFIN OIL	ND	1.0
UNKNOWN HYDROCARBON QUANTITATED USING THE MOST SIMILAR STANDARD:		
DIESEL/FUEL #2	**63**	1.0

ND = NOT DETECTED

Method Reference:

EPA Method Modified 8100 (1)

1) U.S. EPA Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846,

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.

This lab report meets all requirements of NELAC unless otherwise noted.

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

GeoLabs, Inc.

Environmental Laboratories

LABORATORY REPORT

PREPARED FOR:

Decoulos & Company
185 Alewife Brook Parkway
Cambridge, MA 02138

Attn: Jim Decoulos

PRELIMINARY DATA
SUBJECT TO CHANGE

PROJECT ID:	616 131 Main Street Carter, MA
GEOLABS CERTIFICATION #:	M-MA015
SAMPLE NUMBER:	0504281 (001-002)
DATE PREPARED:	April 27, 2005
PREPARED BY:	Karen Mullally
APPROVED BY:	Jim Chen, Laboratory Director

GeoLabs, Inc.
Environmental Laboratories

PRELIMINARY DATA SUBJECT TO CHANGE

MADEP MCP Response Action Analytical Report Certification Form

Laboratory Name:	GeoLabs, Inc.	Project #:	616
Project Location:	131 Main Street	MADEP RTN:	

This form provides certifications for the following data set: 0504281 (001-002)

Sample matrices: Groundwater (x) Soil / Sediment ( ) Drinking Water ( ) Other (x) OIL

MCP SW-846 Methods Used	8260B ( )	8151A ( )	8330 ( )	6010B ( )	7470/1A ( )	Other: (x) 8100M
	8270C ( )	8081A ( )	VPH (x)	6020 ( )	9014M[2] ( )	
	8082 ( )	8021B ( )	EPH (x)	7000 S[3] ( )		

As specified in MADEP Compendium of Analytical Methods (Check all that apply)

1- List Release Tracking Number (RTN), if known
2- M - SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Meth
3- S - SW-846 Methods 7000 Series (List individual method and analyte)

An affirmative response to questions A, B, and C is required for "*Presumptive Certainty*" status

A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	Yes (x)	No[1] ( )
B	Were all QA/QC procedures required for the specified analytical method(included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	Yes (x)	No[1] ( )
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in Section 2.0 of the MADEP documents CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (x)	No[1] ( )

A response to questions D and E below is required for "*Presumptive Certainty*" status

D	Were all QC performance standards and recommendations for the specified methods achieved?	Yes (x)	No[1] ( )
E	Were results for all analyte-list compounds/elements for the specified method(s) reported?	Yes (x)	No[1] ( )

[1]All NO answeres must be addressed in an attached Environmental Laboratory case narrative.

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 analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Position: Lab Director

Printed Name: Jim Chen Date: April 27, 2005

GeoLabs, Inc.

Environmental Laboratories

Case Narrative

PRELIMINARY DATA
SUBJECT TO CHANGE

Project ID: 616
Client Name: Decoulos & Company

Sample Number: 0504281 (001-002)
Received: 04/20/05

Physical Condition of Samples

This project was received by the laboratory in satisfactory condition. The sample (s) were received undamaged, in appropriate containers with the correct preservation, with the following exceptions.

1. Samples received on ice at 23 degrees C.

Project Documentation

This project was accompanied by satisfactory Chain of Custody documentation. The sample container label(s) agreed with the Chain of Custody.

Analysis of Sample(s)

No analytical anomalies or non-conformances were noted by the laboratory during the processing of these sample(s).

GeoLabs, Inc.
Environmental Laboratories

PRELIMINARY DATA
SUBJECT TO CHANGE

SAMPLE INFORMATION

Matrix	☒ Aqueous ☐ Soil ☐ Sediment ☐ Other
Containers	☒ Satisfactory ☐ Broken ☐ Leaking
Aqueous Preservative	☐ N/A ☒ pH ≤ 2 ☐ pH > 2 Comment:
Temperature	☒ Received on ice ☐ Received at 4° C ☐ Other
Extraction Method	Water: Separatory Funnel Soil:

FULL EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1						
Method for Target Analyte: 8270 GC/MS				Client ID:	DMH-A	
Method for PAH Targets: GC/MS				Lab ID:	002	
EPH Surrogate Standards:				Date Collected:	04/20/05	
Aliphatic COD				Date Received:	04/20/05	
Aromatic OTP				Date Extracted:	04/22/05	
				Date Fractions Analyzed:	04/27/05	
EPH Fractionation Surrogates				Date Targets Analyzed:		
2-Fluorobiphenyl				Dilution Factor:	1.0	
2-Bromonaphthalene				Total solids (%):	N/A	
Range/Target Analyte		RL	Units			
Unadjusted C_{11}-C_{22} Aromatics[1]		100	(µg/L)	ND		
Diesel PAH Analytes	Naphthalene	1.00	(µg/L)			
	2-Methylnaphthalene	1.00	(µg/L)			
	Acenaphthene	1.00	(µg/L)			
	Phenanthrene	1.00	(µg/L)			
Other Target PAH Analytes	Acenaphthylene	1.00	(µg/L)			
	Fluorene	1.00	(µg/L)			
	Anthracene	1.00	(µg/L)			
	Fluoranthene	1.00	(µg/L)			
	Pyrene	1.50	(µg/L)			
	Benz[a]Anthracene	1.00	(µg/L)			
	Chrysene	1.00	(µg/L)			
	Benzo[b]Fluoranthene	1.00	(µg/L)			
	Benzo[k]Fluoranthene	0.120	(µg/L)			
	Benzo[a]Pyrene	0.080	(µg/L)			
	Indeno[1,2,3-c,d]Pyrene	0.240	(µg/L)			
	Dibenzo[a,h]Anthracene	0.500	(µg/L)			
	Benzo[g,h,i]Perylene	1.50	(µg/L)			
C9-C18 Aliphatic Hydrocarbons[1]		100	(µg/L)	**193**		
C19-C36 Aliphatic Hydrocarbons[1]		100	(µg/L)	ND		
C_{11}-C_{22} Aromatic Hydrocarbons[1,2]		100	(µg/L)	ND		
Aliphatic Surrogate % Recovery (COD)				94%		
Aromatic Surrogate % Recovery (OTP)				81%		
Sample Surrogate Acceptance Range				40-140%		
2,2'-Difluorobiphenyl % Recovery						
2-Fluorobiphenyl % Recovery						
Fractionation Surrogate Acceptance Range				40-140%		

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range
[2]C_{11}-C_{22} Aromatic Hydrocarbons exclude concentrations of Target PAH Analytes.

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? ☒ Yes ☐ No - Details attached
Were all performance/acceptance standards acheived? ☒ Yes ☐ No - Details attached
Were any significant modifications made to the EPH method?? ☒ No ☐ Yes - Details attached

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

SIGNATURE: POSITION: Lab Director

PRINTED NAME: Jim Chen DATE: 4/27/2005

GeoLabs, Inc.
Environmental Laboratories

PRELIMINARY DATA
SUBJECT TO CHANGE

EPH - QC - Ranges
EXTRACTABLE PETROLEUM HYDROCARBONS

	QC RESULTS						
	Method Blank	MDL (µg/L)	Spike % Recovery 1	Spike % Recovery 2		RPD	%
*c9-c18 Aliphatics	57.2	100	43	46.6	40-140	5.6	≤ 50
c19-c36 Aliphatics	21.8	100	86.7	86.1	40-140	0.6	≤ 50
c11-c22 Aromatics	70.8	100	51.6	47.3	40-140	7.5	≤ 50

Surrogate % Recovery:

COD	70%	40-140	65%	67%	40-140	3.60%	≤ 50
OTP	67%	40-140	71%	65%	40-140	7.80%	≤ 50

EPH - QC Target Analyte
EXTRACTABLE PETROLEUM HYDROCARBONS

	QC RESULTS			
	Method Blank	Spike % Recovery 1	Spike % Recovery 2	Limits %
Acenaphthene	ND			40-140%
Phenanthrene	ND			40-140%
Pyrene	ND			40-140%
Chrysene	ND			40-140%
Indeno [1,2,3-cd] pyrene	ND			40-140%

GeoLabs, Inc.
Environmental Laboratories

PRELIMINARY DATA
SUBJECT TO CHANGE

SAMPLE INFORMATION

Matrix	☒ Aqueous ☐ Soil ☐ Sediment ☐ Other		
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	☐ Other
Temperature	☒ Received on ice ☐ Received at 4° C ☐ Other		

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH
Method for Target Analytes: MADEP VPH
VPH Surrogate Standards
PID (2,5-Dibromotoluene)
FID (2,5-Dibromotoluene)

Client ID:	DMH-A
Lab ID:	002
Date Collected:	04/20/05
Date Received:	04/20/05
Date Analyzed:	04/25/05
Dilution Factor:	1.0
Total solids (%):	N/A

Range/Target Analyte	Elut. Range	RL	Units			
Unadjusted C_5-C_8 Aliphatics[1]	N/A	40	ug/L	ND		
Unadjusted C_9-C_{12} Aliphatics[1]	N/A	15	ug/L	ND		
Methyl tert-butyl ether	C_5-C_8 Aliph.	5	ug/L	23.1		
Benzene	C_5-C_8 Aliph.	5	ug/L	ND		
Toluene	C_5-C_8 Aliph.	5	ug/L	ND		
Ethylbenzene	C_9-C_{12} Aliph.	5	ug/L	ND		
m&p-Xylenes	C_9-C_{12} Aliph.	5	ug/L	ND		
o-Xylene	C_9-C_{12} Aliph.	5	ug/L	ND		
Naphthalene	N/A	20	ug/L	ND		
C5-C8 Aliphatic Hydrocarbons[1,2]	N/A	40	ug/L	ND		
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	15	ug/L	ND		
C_9-C_{10} Aromatic Hydrocarbons[1]	C_9-C_{12} Aliph.	55	ug/L	ND		
2,5-Dibromotoluene (PID) Surrogate Recovery				88%		
2,5-Dibromotoluene (FID) Surrogate Recovery				83%		
Surrogate Acceptance Range				70-130%		

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range
[2]C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
[3]C_9-C_{12} Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons

CERTIFICATION

Were all QA/QC procedures REQUIRED by the VPH 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 VPH method, as specified in Sect 11.3.? ☒ No

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: 04/27/05

GeoLabs, Inc.
Environmental Laboratories

PRELIMINARY DATA
SUBJECT TO CHANGE

Matrix:	Water	µg/L	LCS %	Limit	BLANK
MTBE			80%	70-130%	ND
Benzene			102%	70-130%	ND
Toluene			119%	70-130%	ND
Ethyl Benzene			112%	70-130%	ND
m,p-xylene			129%	70-130%	ND
o-xylene			120%	70-130%	ND
Naphthalene			113%	70-130%	ND
Surrogate Recoveries:					
2,5-Dibromotoluene (PID)			100%		97%
2,5-Dibromotoluene (FID)			91%		92%

GeoLabs, Inc.
Environmental Laboratories

PRELIMINARY DATA
SUBJECT TO CHANGE

CLIENT NAME:	**Decoulos & Co.**	PROJECT ID:	131 Main St
SAMPLE TYPE:	OIL/WATER	REPORT DATE:	04/2705
COLLECTION DATE:	04/20/05	ANALYZED BY:	GP
REC'D BY LAB:	04/20/05	EXTRACTION DATE:	04/26/05
COLLECTED BY:	CLIENT	DIGESTION DATE:	04/25/05

PETROLEUM HYDROCARBON SCAN

SAMPLE NUMBER: 001
SAMPLE LOCATION: DCW-1

100 X Dilution	**RESULTS (%)**	**DETECTION LIMIT (%)**
DIESEL/FUEL #2	ND	1.0
FUEL OIL #4	ND	1.0
FUEL OIL #6	ND	1.0
GASOLINE	ND	1.0
KEROSENE/JET FUEL	ND	1.0
MOTOR OIL	ND	1.0
TRANSFORMER OIL	ND	1.0
PARAFIN OIL	ND	1.0
UNKNOWN HYDROCARBON QUANTITATED USING THE MOST SIMILAR STANDARD:		
DIESEL/FUEL #2	**63**	1.0

ND = NOT DETECTED

Method Reference:

EPA Method Modified 8100 (1)

1) U.S. EPA Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846,

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

LIMITATIONS & EXCLUSIONS

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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.

This lab report meets all requirements of NELAC unless otherwise noted.

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

CHAIN OF CUSTODY

GeoLabs CHAIN NUMBER: 0504281

CHECKED ITEMS MUST BE FILLED IN — 24/48 HOUR RUSHES ONLY WITH APPROVAL OF D. KAHLER OR LAB DIRECTOR

GeoLabs, Inc.
Environmental Laboratories
45 Johnson Lane
Braintree, MA 02184
Office: 781-848-7844
Fax: 781-848-7811

Turnaround Time
RUSH: 24-48hrs ☐ 72hrs ☐ STANDARD: 5 Days ☑
ASAP
RUSH APPROVED BY: X

Page ___ of ___

SPECIAL INSTRUCTIONS
NEED FINGERPRINT TO DETERMINE IF PRODUCT IS GASOLINE OR DIESEL

Note: JOBS WITH INCOMPLETELY FILLED OUT CHAINS WILL NOT BE RUN. CHAIN WILL BE RETURNED TO CLIENT FOR COMPLETION

TYPE OF CLIENT: BUS ___ LAB ___ HOMEOWNER ___ — NOTE: HOMEOWNERS, LAW FIRMS MUST PAY WHEN DROPPING OFF SAMPLES

Client: X DECOVOS + CO
Address: X 185 ALEWIFE NO P.O. BOXES BROOK PARKWAY, CAN
Phone: X 617-489-7795
Fax: 877-842-9629
Contact: X JIM
E-mail: JAMESJ@DECOVOS

Project Number: X 616
Project Location: X 131 MAIN ST CARVER, MA
Purchase Order #:
Collected By: X MC + JD

CHANGES REQUESTED? Y N
BY DATE
Change to Rush Client Spoke to Dave 4/22/05
Received on ice? ☐

ANALYSES REQUESTED

SAMPLE ID	COLLECTION DATE	COLLECTION TIME	COLLECTION SAMPLED BY	SAMPLE LOCATION	CONTAINER TYPE	CONTAINER QUANT	MATRIX	COMP	GRAB	PRES	GEOLABS SAMPLE NUMBER	Fingerprint Only	EPH	VPH						TEMPERATURE	LABPH
DCW-1	4/20	1000	MC/JD		A	1	~~GW~~		X		4281-001	✓		✓						25°	
DMH-A	4/20	1100	MC/JD		A/V	4	GW		X		-002		✓	✓						↳	

Verbal results given to ___ by (date/initial) ___

MATRIX CODES:
GW = Ground Water
WW = Wastewater
DW = Drinking Water
SL = Sludge
S = Soil A = Air
O = Oil OT = Other

CONTAINER CODES:
A = Amber B = Bag
G = Glass P = Plastic
S = Summa Canister
O = Other V = VOA

PRESERVATIVE CODES:
1 = HCl 5 = NaOH
2 = HNO_3 6 = MeOH
3 = H_2SO_4 7 = ICE
4 = $Na_2S_2O_3$

Terms: Payment due within 30 days unless other arrangements are made.
Past due balances subject to interest and collection costs.

Relinquished By:	Date/Time	Received By:	Date/Time:
PRINT:	4/20/05 2:15		
Relinquished By:		Received By:	
Relinquished By:		Received By GeoLabs:	4/20/05 2:15p