DECOULOS & COMPANY

ENVIRONMENTAL ENGINEERING & LAND PLANNING

VIA EMAIL AND USPS PRIORITY MAIL

Tuesday, February 22, 2005

Jonathan E. Hobill, Regional Engineer DEP Bureau of Waste Site Cleanup 20 Riverside Drive Lakeville, MA 02347

RE: IRA Plan Modification No. 4 Completion Report
131 Main Street, Carver (the Site); RTN 4-17582; NON-SE-03-3T-103

Dear Mr. Hobill:

On behalf of Eagle Gas, Inc., Decoulos & Company is pleased to submit the results from testing described in the Immediate Response Action (IRA) Plan Modification No. 4 for the above referenced release.

IRA Plan Mod. No. 4 was submitted to the Department on January 18, 2005. The following information describes the work completed under this IRA Plan; the data collected from the assessment related actions; and, the final design calculations for the pumping, treatment and infiltration of petroleum contaminated groundwater from the interceptor trench in the Main Street right-of-way.

HYDRAULIC CONDUCTIVITY ASSESSMENT AND LNAPL COLLECTION

Rising head slug tests were conducted at each observation well within the interceptor trench on February 2 and 3, 2005. The original data collected by the miniTROLLs $^{\odot}$ from In Situ, Inc. is presented in Appendix A.

Both miniTROLLs[©] were pre-programmed to begin collecting data at 12:30 pm on Wednesday February 2nd. Prior to inserting the first miniTROLL[©] in EOW-2, the well was pumped by a 3,500 gallon press vacuum tank truck operated by Alan Pierce of Lighthouse Environmental, Inc. of Reading, MA. A police detail was on hand to close the southbound lane of traffic. Between 12:31 pm and 12:46 pm, approximately 225 gallons of groundwater was pumped from EOW-2. At 12:50 pm, the miniTROLL[©] was set in EOW-2.

Observation well EOW-1 was pumped at 12:51 pm. At 1:00 pm it was observed that the collecting tubing was clogged. Various efforts were made to free the clogged debris from the tubing up to 1:20 pm. The well contains debris from the interceptor trench construction that could not be fully removed by the vacuum truck. At the time of initial pumping, approximately 295 gallons of groundwater had been evacuated from EOW-1. At 1:21 pm, the second miniTROLL® was set in EOW-1.

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Light Non-Aqueous Phase Liquid (LNAPL) was then removed from wells ERW-1, BP-5RR, ERW-2, ERW-4 and DCW-7 with the vacuum truck. Four-inch diameter Keck passive recovery canisters (PRCs) were located within wells ERW-1 and ERW-2. The PRC from ERW-1 contained mostly water and the unit was raised 12 inches to adjust for elevated groundwater levels. The PRC at ERW-2 contained mostly LNAPL and the unit was raised 6 inches to adjust for seasonal groundwater changes. Manifests from the vacuum truck are provided in Appendix B. Approximately 75 gallons of groundwater and LNAPL was pumped from the five wells.

At 2:16 pm, the interceptor trench was pumped from the end of the pipe trench on the Eagle property. At 2:36 pm, the vacuum truck began collecting air and at 2:40 pm the pumping ceased. Altogether, approximately 1100 gallons of LNAPL and groundwater was pumped from the observation wells, monitoring wells and interceptor trench on February 2, 2005.

The data collected from the miniTROLLs[©] shows the initial drawdown at each observation well, followed by a groundwater recovery and a final pump of the interceptor trench at the trench end.

After conducting the rising head slug tests on February 2nd, the interceptor trench and LNAPL were vacuumed on February 9th and 16th. The interceptor trench was pumped from the two inch PVC conduit on the Eagle property and the LNAPL was recovered from ERW-1, BP-5RR, ERW-2, ERW-4 and DCW-7. Manifests are provided in Appendix B.

HYDRAULIC CONDUCTIVITY AND PUMPING RATE CALCULATIONS

Hydraulic conductivity was determined using the program AquiferWin32 $^{\odot}$ from Environmental Simulations, Inc. This program ran our data through two test scenarios, providing two different but similar values from each miniTROLL $^{\odot}$. Using the Bouwer & Rice 1 equation, the hydraulic conductivity at EOW-1 was determined to be 1.66 x 10^{-5} cm/sec, while using the Black 2 equation it was determined to be 1.67 x 10^{-5} cm/sec. Using the Bouwer & Rice equation, the hydraulic conductivity at EOW-2 was determined to be 1.81 x 10^{-5} cm/sec, while using the Black equation it was determined to be 1.85 x 10^{-5} cm/sec. Output and graphs from the analysis are provided in Appendix C.

¹ Bouwer, H., and R.C. Rice. 1976. A slug test for determining hydraulic conductivity of unconfined aquifers with completely or partially penetrating wells. *Water Resour. Res.* 12, no. 3: 423-428.

² Black, J.H. 1978. The use of the slug test in groundwater investigations. *Water Services*, Vol. 29, pp. 174-178.

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A flow rate has been established based upon the calculated permeability of the sandy silt layer between 5 and 11 feet below grade and the actual sidewall area of the 50 foot long by 3 foot wide trench. Using the saturated surface area of the trench, a flow rate for the pump and treat system was calculated:

Saturated Trench Sidewall Area (ft2) Conversion (cm2/ft2)	530 929
Saturated Trench Sidewall Area (cm2)	492,370
Most Conservative Permeability (cm/sec)	1.85E-05
Area (cm2)	492,370
Flow rate (cm3/sec)	9.11
Conversion (cm3/mL)	1
Flow Rate (ml/sec)	9.11
Conversion (L/ml)	0.00
Flow Rate (L/sec)	0.01
Conversion (gallons/L)	0.26
Flow Rate (gal/sec)	0.00
Conversion (sec/min)	60
Flow Rate (gal/min)	0.14
Conversion (min/day)	1440
Anticipated Flow Rate (gal/day)	207.77

ACTIVATED CARBON CHANGEOUT PERIOD

On February 16th, during the course of vacuuming the interceptor trench, a groundwater sample was collected from the two inch PVC supply line to the trench. The sample was analyzed for Total Petroleum Hydrocarbons (TPH) and the certificate of analysis is presented in Appendix D. The TPH concentration reported from GeoLabs, Inc. of Braintree, MA is 16.6 mg/l.

Using the reported TPH concentration and a conservative pumping rate of 3.0 gallons per minute³, representative Ken Kikta of the Carbtrol Corporation prepared an activated carbon usage estimate. Assuming 55 gallon drums of activated carbon, which contain 200 pounds of carbon per drum, it is estimated that breakthrough of the first activated carbon drum in series would occur at 128 days. See Appendix E.

With an adjusted flow rate of 0.14 gallons per minute, breakthrough of the first drum will occur well beyond one year of operation. As a conservative measure, changeout and replacement of the carbon drums shall occur every sixty (60) days. Monthly TPH analysis of the treatment system inlet shall be conducted to ensure that the TPH concentration does not significantly degrade and impact the changeout period.

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³ This rate was assumed prior to the hydraulic conductivity analysis.

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GROUNDWATER INFILTRATION DESIGN

The discharge of treated groundwater shall occur in a subsurface leaching facility as shown in the Proposed Product Recovery Plan, Figure 1 of IRA Mod No. 3. Based upon the revised pumping rate and adjusted discharge factors, the size of the proposed leaching facility has been significantly reduced.

In the most recent design, a total of 42 high capacity Infiltrators[©] were proposed. The units were to be set in three separate trenches in an excavation 30 feet wide by 92 feet long. The design was based upon a percolation rate of 25 minutes per inch; a flow rate of 3 gallons per minute; and, an infiltration loading rate of 0.40 gallons per day per square foot. The loading rate was obtained directly from Title 5, 310 CMR 15.242.

In addition to a significant reduction in flow, the Title 5 loading rate is overly conservative for the proposed treated groundwater infiltration design. The Title 5 effluent loading rate is based upon septic effluent that is highly elevated in suspended solids and other constituents. A more appropriate design flow would be a greywater discharge as provided in 310 CMR 15.289(3)(a)(2).

Adjusted infiltration calculations based upon the revised flow rate and greywater discharge rate reveal that 12 high capacity Infiltrators[©] are entirely suitable to handle the entire proposed subsurface discharge. The units shall be placed in two separate trenches that are 6.83 feet wide by 41.50 feet long. See calculations in Appendix F.

CONCLUSION

Based upon additional assessment and design considerations, Eagle is prepared to immediately begin construction of the revised remedial design first proposed in IRA Modification No. 3. The response action will follow the criteria set in Mod No. 3, with modified conditions that are now more accurate and representative of the current state.

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

Wery truly yours,

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

cc: Francis J. Casey, Carver Board of Selectmen Robert C. Tinkham, Jr., Carver Board of Health Sarah G. Hewins, Carver Conservation Commission William A. Halunen, Carver Department of Public Works David Bennett, Bennett & O'Reilly, Inc.

Najib Badaoui, Eage Gas, Inc.

APPENDIX A DATA COLLECTED FROM miniTROLLS

In-Situ Inc. MiniTroll Pro

Report generated: 02/03/05 17:12:07

Report from file: ...\SN01966 2005-02-02 123000 EagleOW1.bin

Win-Situ Version 4.51

Serial number: 00001966 Firmware Version 3.09 Unit name: EagleOW1

Test name: EagleOW1

Test defined on: 02/02/05 07:42:16

Test scheduled for: 02/02/05 12:30:00

Test started on: 02/02/05 12:30:00

Test stopped on: N/A N/A

Data gathered using Linear testing

Time between data points: 30.0 Seconds.

Number of data samples: 3434

TOTAL DATA SAMPLES 3434

Channel number [1]

Measurement type: Temperature

Channel name:

Channel number [2]

Measurement type: Pressure

Channel name:

Sensor Range: 30 PSIG.

Specific gravity: 1.000

Chan[1] Chan[2] Temperature Pressure

Date	Time	ET (sec) Fahrenhe	eit Feet H20		
02/02/05	12:20:00	0.0	E1 //	-0.015	
			51.44		
02/02/05	12:30:30	30.0	50.28	-0.016	
02/02/05	12:31:00	60.0	49.32	-0.007	
02/02/05	12:31:30	90.0	48.40	-0.011	
02/02/05	12:32:00	120.0	47.72	-0.016	
02/02/05	12:32:30	150.0	47.24	-0.013	
02/02/05	12:33:00	180.0	46.64	-0.010	
02/02/05	12:33:30	210.0	46.34	-0.011	
02/02/05	12:34:00	240.0	46.14	-0.013	
02/02/05	12:34:30	270.0	45.84	-0.009	
02/02/05	12:35:00	300.0	45.54	-0.014	
02/02/05	12:35:30	330.0	45.04	-0.006	
02/02/05	12:36:00	360.0	44.38	-0.007	
02/02/05	12:36:30	390.0	43.94	-0.007	
02/02/05	12:37:00	420.0	43.71	-0.004	
02/02/05	12:37:30	450.0	43.46	-0.003	
02/02/05	12:38:00	480.0	43.16	0.012	
02/02/05	12:38:30	510.0	43.41	0.012	

02/02/05	12:39:00	540.0	43.92	0.014
02/02/05	12:39:30	570.0	44.44	0.013
02/02/05	12:40:00	600.0	44.83	0.010
02/02/05	12:40:30	630.0	45.04	0.012
02/02/05	12:41:00	660.0	45.15	0.009
02/02/05	12:41:30	690.0	45.29	0.009
02/02/05	12:42:00	720.0	45.38	0.010
02/02/05	12:42:30	750.0	45.38	0.012
02/02/05	12:43:00	780.0	45.52	0.011
02/02/05	12:43:30	810.0	45.84	0.011
02/02/05	12:44:00	840.0	46.23	0.009
02/02/05	12:44:30	870.0	46.46	0.009
02/02/05	12:45:00	900.0	46.71	0.008
02/02/05	12:45:30	930.0	46.98	0.007
02/02/05	12:46:00	960.0	47.24	0.006
02/02/05	12:46:30	990.0	47.42	0.006
02/02/05	12:47:00	1020.0	47.51	0.005
02/02/05	12:47:30	1050.0	47.49	0.005
02/02/05	12:48:00	1080.0	47.53	-0.016
02/02/05	12:48:30	1110.0	47.58	-0.010
02/02/05	12:49:00	1140.0	47.21	-0.010
02/02/05	12:49:30	1170.0	46.78	0.001
02/02/05	12:50:00	1200.0	46.50	-0.008
02/02/05	12:50:30	1230.0	46.12	-0.008
02/02/05	12:51:00	1260.0	45.98	0.008
02/02/05	12:51:30	1290.0	46.14	-0.013
02/02/05	12:52:00	1320.0	46.25	-0.012
02/02/05	12:52:30	1350.0	46.00	0.006
02/02/05	12:53:00	1380.0	45.84	0.007
02/02/05	12:53:30	1410.0	46.23	0.009
02/02/05	12:54:00	1440.0	46.60	0.005
02/02/05	12:54:30	1470.0	46.78	0.007
02/02/05	12:55:00	1500.0	46.62	-0.008
02/02/05	12:55:30	1530.0	46.23	-0.012
02/02/05	12:56:00	1560.0	45.93	0.002
02/02/05	12:56:30	1590.0	46.07	0.003
02/02/05	12:57:00	1620.0	46.34	0.004
02/02/05	12:57:30	1650.0	46.53	0.004
02/02/05	12:58:00	1680.0	46.78	0.005
02/02/05	12:58:30	1710.0	47.08	0.002
02/02/05	12:59:00	1740.0	47.37	0.002
02/02/05	12:59:30	1770.0	47.72	0.003
02/02/05	13:00:00	1800.0	48.13	0.003
02/02/05	13:00:30	1830.0	48.59	
				0.001
02/02/05	13:01:00	1860.0	48.91	0.002
02/02/05	13:01:30	1890.0	49.09	-0.000
02/02/05	13:02:00	1920.0	49.13	-0.001
02/02/05	13:02:30	1950.0	49.29	-0.001
02/02/05	13:03:00	1980.0	49.43	-0.002
02/02/05	13:03:30	2010.0	49.48	-0.003
02/02/05	13:04:00	2040.0	49.48	-0.003
02/02/05	13:04:30	2070.0	49.43	-0.000
02/02/05	13:05:00	2100.0	49.41	-0.002
02/02/05	13:05:30	2130.0	49.36	-0.004
02/02/05	13:06:00	2160.0	49.04	-0.014
02/02/05	13:06:30	2190.0	48.72	-0.015
02/02/05	13:07:00	2220.0	48.33	-0.015
32,02,03	_5 07 00		10.55	0.010

02/02/05	13:07:30	2250.0	47.92	0.007
02/02/05	13:08:00	2280.0	47.90	0.007
02/02/05	13:08:30	2310.0	48.08	0.005
02/02/05	13:09:00	2340.0	48.08	0.005
02/02/05	13:09:30	2370.0	48.29	0.005
02/02/05	13:10:00	2400.0	48.65	0.004
02/02/05	13:10:30	2430.0	48.88	0.006
02/02/05	13:11:00	2460.0	49.11	0.005
02/02/05	13:11:30	2490.0	49.43	0.004
02/02/05	13:12:00	2520.0	49.66	0.003
02/02/05	13:12:30	2550.0	49.96	0.004
				0.002
02/02/05	13:13:00	2580.0	50.12	
02/02/05	13:13:30	2610.0	50.28	0.000
02/02/05	13:14:00	2640.0	50.44	-0.014
02/02/05	13:14:30	2670.0	50.23	-0.016
02/02/05	13:15:00	2700.0	49.68	-0.018
02/02/05	13:15:30	2730.0	48.93	0.331
02/02/05	13:16:00	2760.0	48.54	0.650
02/02/05	13:16:30	2790.0	48.36	0.654
02/02/05	13:17:00	2820.0	48.20	0.656
02/02/05	13:17:30	2850.0	48.04	0.660
02/02/05	13:18:00	2880.0	47.90	0.662
02/02/05	13:18:30	2910.0	47.74	0.666
02/02/05	13:19:00	2940.0	47.62	0.665
02/02/05	13:19:30	2970.0	47.51	0.668
02/02/05	13:20:00	3000.0	47.44	0.671
02/02/05	13:20:30	3030.0	47.40	0.672
02/02/05	13:21:00	3060.0	47.37	0.674
02/02/05	13:21:30	3090.0	47.35	0.676
02/02/05	13:22:00	3120.0	47.35	0.678
02/02/05	13:22:30	3150.0	47.33	0.681
02/02/05	13:23:00	3180.0	47.28	0.683
02/02/05	13:23:30	3210.0	47.21	0.684
02/02/05	13:24:00	3240.0	47.17	0.687
02/02/05	13:24:30	3270.0	47.14	0.687
02/02/05	13:25:00	3300.0	47.12	0.689
02/02/05	13:25:30	3330.0	47.14	0.691
02/02/05	13:26:00	3360.0	47.14	0.691
02/02/05	13:26:30	3390.0	47.14	0.695
02/02/05	13:27:00	3420.0	47.14	0.695
02/02/05	13:27:30	3450.0	47.14	0.697
02/02/05	13:28:00	3480.0	47.17	0.699
02/02/05	13:28:30	3510.0	47.17	0.701
02/02/05	13:29:00	3540.0	47.19	0.703
02/02/05	13:29:30	3570.0	47.19	0.705
02/02/05	13:30:00	3600.0	47.21	0.705
02/02/05	13:30:30	3630.0	47.21	0.707
02/02/05	13:31:00	3660.0	47.21	0.709
02/02/05	13:31:30	3690.0	47.24	0.711
02/02/05	13:32:00	3720.0	47.24	0.711
02/02/05	13:32:30	3750.0	47.24	0.713
02/02/05	13:33:00	3780.0	47.24	0.715
02/02/05	13:33:30	3810.0	47.24	0.715
02/02/05	13:34:00	3840.0	47.24	0.717
02/02/05	13:34:30	3870.0	47.26	0.719
02/02/05	13:35:00	3900.0	47.26	0.721
02/02/05	13:35:30	3930.0	47.26	
	1 3 . 3 7 . 5 11	171U.U	4/.40	0.721

02/02/05	13:36:00	3960.0	47.26	0.725
02/02/05	13:36:30	3990.0	47.28	0.725
02/02/05	13:37:00	4020.0	47.28	0.727
02/02/05	13:37:30	4050.0	47.28	0.727
02/02/05	13:38:00	4080.0	47.28	0.729
02/02/05	13:38:30	4110.0	47.30	0.731
02/02/05	13:39:00	4140.0	47.30	0.733
02/02/05	13:39:30	4170.0	47.30	0.733
02/02/05	13:40:00	4200.0	47.30	0.735
02/02/05	13:40:30	4230.0	47.30	0.737
02/02/05	13:41:00	4260.0	47.30	0.737
02/02/05	13:41:30	4290.0	47.30	0.739
02/02/05	13:42:00	4320.0	47.30	0.741
02/02/05	13:42:30	4350.0	47.33	0.741
02/02/05	13:43:00	4380.0	47.33	0.745
02/02/05	13:43:30	4410.0	47.33	0.745
02/02/05	13:44:00	4440.0	47.33	0.747
02/02/05	13:44:30	4470.0	47.33	0.749
02/02/05	13:45:00	4500.0	47.33	0.749
02/02/05	13:45:30	4530.0	47.33	0.751
	13:46:00	4560.0	47.33	0.751
02/02/05				
02/02/05	13:46:30	4590.0	47.33	0.753
02/02/05	13:47:00	4620.0	47.33	0.757
02/02/05	13:47:30	4650.0	47.33	0.755
02/02/05	13:48:00	4680.0	47.33	0.757
02/02/05	13:48:30	4710.0	47.33	0.757
02/02/05	13:49:00	4740.0	47.33	0.759
02/02/05	13:49:30	4770.0	47.33	0.761
02/02/05	13:50:00	4800.0	47.33	0.764
02/02/05	13:50:30	4830.0	47.35	0.763
02/02/05	13:51:00	4860.0	47.33	0.766
02/02/05	13:51:30	4890.0	47.35	0.765
02/02/05	13:52:00	4920.0	47.35	0.769
02/02/05	13:52:30	4950.0	47.35	0.772
02/02/05	13:53:00	4980.0	47.35	0.772
02/02/05	13:53:30	5010.0	47.35	0.774
02/02/05	13:54:00	5040.0	47.35	0.776
02/02/05	13:54:30	5070.0	47.35	0.776
02/02/05	13:55:00	5100.0	47.35	0.778
02/02/05	13:55:30	5130.0	47.35	0.780
02/02/05	13:56:00	5160.0	47.35	0.782
02/02/05	13:56:30	5190.0	47.35	0.782
02/02/05	13:57:00	5220.0	47.35	0.782
02/02/05	13:57:30	5250.0	47.35	0.784
02/02/05	13:58:00	5280.0	47.35	0.786
02/02/05	13:58:30		47.35	
		5310.0		0.788
02/02/05	13:59:00	5340.0	47.35	0.788
02/02/05	13:59:30	5370.0	47.35	0.790
02/02/05	14:00:00	5400.0	47.35	0.792
02/02/05	14:00:30	5430.0	47.35	0.792
02/02/05	14:01:00	5460.0	47.37	0.794
02/02/05	14:01:30	5490.0	47.37	0.794
02/02/05	14:02:00	5520.0	47.37	0.796
02/02/05	14:02:30	5550.0	47.37	0.798
02/02/05	14:03:00	5580.0	47.37	0.798
02/02/05	14:03:30	5610.0	47.37	0.798
02/02/05	14:04:00	5640.0	47.37	0.800
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02/02/05	14:04:30	5670.0	47.40	0.802
02/02/05	14:05:00	5700.0	47.37	0.804
02/02/05	14:05:30	5730.0	47.37	0.804
02/02/05	14:06:00	5760.0	47.37	0.807
02/02/05	14:06:30	5790.0	47.37	0.807
02/02/05	14:07:00	5820.0	47.37	0.811
02/02/05	14:07:30	5850.0	47.37	0.811
02/02/05	14:08:00	5880.0	47.37	0.813
02/02/05	14:08:30	5910.0	47.37	0.813
02/02/05	14:09:00	5940.0	47.37	0.815
02/02/05	14:09:30	5970.0	47.37	0.817
02/02/05	14:10:00	6000.0	47.37	0.817
02/02/05	14:10:30	6030.0	47.37	0.819
02/02/05	14:11:00	6060.0	47.37	0.821
02/02/05	14:11:30	6090.0	47.37	0.821
02/02/05	14:12:00	6120.0	47.37	0.823
02/02/05	14:12:30	6150.0	47.37	0.825
02/02/05	14:13:00	6180.0	47.40	0.825
02/02/05	14:13:30	6210.0	47.40	0.767
02/02/05	14:14:00	6240.0	47.37	0.730
02/02/05	14:14:30	6270.0	47.37	0.674
02/02/05	14:15:00	6300.0	47.37	0.610
02/02/05	14:15:30	6330.0	47.35	0.546
02/02/05	14:16:00	6360.0	47.35	0.475
		6390.0		
02/02/05	14:16:30		47.33	0.413
02/02/05	14:17:00	6420.0	47.33	0.347
02/02/05	14:17:30	6450.0	47.33	0.281
02/02/05	14:18:00	6480.0	47.30	0.219
02/02/05	14:18:30	6510.0	47.30	0.152
02/02/05	14:19:00	6540.0	47.30	0.086
02/02/05	14:19:30	6570.0	47.28	0.020
02/02/05	14:20:00	6600.0	47.26	-0.002
02/02/05	14:20:30	6630.0	47.24	-0.000
02/02/05	14:21:00	6660.0	47.21	-0.002
	14:21:30			
02/02/05		6690.0	47.21	0.000
02/02/05	14:22:00	6720.0	47.19	0.000
02/02/05	14:22:30	6750.0	47.17	0.001
02/02/05	14:23:00	6780.0	47.14	-0.001
02/02/05	14:23:30	6810.0	47.12	-0.001
02/02/05	14:24:00	6840.0	47.12	-0.001
02/02/05	14:24:30	6870.0	47.10	-0.003
02/02/05	14:25:00	6900.0	47.08	-0.002
02/02/05	14:25:30	6930.0	47.05	-0.000
02/02/05	14:26:00	6960.0	47.05	-0.002
02/02/05	14:26:30	6990.0	47.03	-0.002
02/02/05	14:27:00	7020.0	47.01	-0.002
02/02/05	14:27:30	7050.0	47.01	-0.004
02/02/05	14:28:00	7080.0	46.98	-0.001
02/02/05	14:28:30	7110.0	46.96	-0.003
02/02/05	14:29:00	7140.0	46.96	-0.003
02/02/05	14:29:30	7170.0	46.94	-0.005
02/02/05	14:30:00	7200.0	46.92	-0.003
02/02/05	14:30:30	7230.0	46.92	-0.003
02/02/05	14:31:00	7260.0	46.89	-0.005
02/02/05	14:31:30	7290.0	46.89	-0.005
02/02/05			46 00	0 00:
02/02/05	14:32:00	7320.0	46.87	-0.004
02/02/05			46.87 46.85	-0.004 0.000

In-Situ Inc. MiniTroll Pro

Report generated: 02/03/05 17:04:31

Report from file: ...\SN09040 2005-02-02 123000 EagleOW2.bin

Win-Situ Version 4.51

Serial number: 00009040 Firmware Version 3.09 Unit name: EagleOW2

Test name: EagleOW2

Test defined on: 02/02/05 07:54:08

Test scheduled for: 02/02/05 12:30:00

Test started on: 02/02/05 12:30:00

Test stopped on: N/A N/A

Data gathered using Linear testing

Time between data points: 30.0 Seconds.

Number of data samples: 3409

TOTAL DATA SAMPLES 3409

Channel number [1]

Measurement type: Temperature

Channel name:

Channel number [2]

Measurement type: Pressure

Channel name:

Sensor Range: 30 PSIG.

Specific gravity: 1.000

Chan[1] Chan[2] Temperature Pressure

Date	Time	ET (sec) Fahrenhe	eit Feet H2C)	
02/02/05	12:30:00	0.0	52.19	-0.025	
02/02/05	12:30:30	30.0	51.10	-0.025	
02/02/05	12:31:00	60.0	50.00	-0.024	
02/02/05	12:31:30	90.0	48.88	-0.005	
02/02/05	12:32:00	120.0	48.18	-0.018	
02/02/05	12:32:30	150.0	47.49	-0.015	
02/02/05	12:33:00	180.0	46.85	-0.017	
02/02/05	12:33:30	210.0	46.42	-0.012	
02/02/05	12:34:00	240.0	46.14	-0.010	
02/02/05	12:34:30	270.0	45.76	-0.008	
02/02/05	12:35:00	300.0	45.44	-0.011	
02/02/05	12:35:30	330.0	44.91	-0.005	
02/02/05	12:36:00	360.0	44.25	-0.011	
02/02/05	12:36:30	390.0	43.81	-0.008	
02/02/05	12:37:00	420.0	43.58	-0.001	
02/02/05	12:37:30	450.0	43.40	-0.004	
02/02/05	12:38:00	480.0	43.17	0.007	
02/02/05	12:38:30	510.0	43.17	0.009	

02/02/05	12:39:00	540.0	43.40	0.012
02/02/05	12:39:30	570.0	43.72	0.013
02/02/05	12:40:00	600.0	43.97	0.013
02/02/05	12:40:30	630.0	44.25	0.013
02/02/05	12:41:00	660.0	44.52	0.012
02/02/05	12:41:30	690.0	44.70	0.012
02/02/05	12:42:00	720.0	45.05	0.014
02/02/05	12:42:30	750.0	45.32	0.012
02/02/05	12:43:00	780.0	45.62	0.011
02/02/05	12:43:30	810.0	45.94	-0.001
02/02/05	12:44:00	840.0	46.05	-0.011
02/02/05	12:44:30	870.0	46.49	2.240
02/02/05	12:45:00	900.0	47.42	2.375
02/02/05	12:45:30	930.0	47.93	2.454
02/02/05	12:46:00	960.0	48.20	2.479
02/02/05	12:46:30	990.0	48.34	2.489
02/02/05	12:47:00	1020.0	48.45	2.503
02/02/05	12:47:30	1050.0	48.52	2.517
02/02/05	12:48:00	1080.0	48.56	2.530
02/02/05	12:48:30	1110.0	48.59	2.544
02/02/05	12:49:00	1140.0	48.61	2.555
02/02/05	12:49:30	1170.0	48.63	2.563
02/02/05	12:50:00	1200.0	48.66	2.566
02/02/05	12:50:30	1230.0	48.66	2.566
02/02/05	12:51:00	1260.0	48.66	2.560
	12:51:30	1290.0		
02/02/05			48.68	2.544
02/02/05	12:52:00	1320.0	48.68	2.501
02/02/05	12:52:30	1350.0	48.68	2.476
02/02/05	12:53:00	1380.0	48.68	2.476
02/02/05	12:53:30	1410.0	48.70	2.477
02/02/05	12:54:00	1440.0	48.70	2.481
02/02/05	12:54:30	1470.0	48.70	2.483
02/02/05	12:55:00	1500.0	48.70	2.485
02/02/05	12:55:30	1530.0	48.70	2.487
02/02/05	12:56:00	1560.0	48.70	2.489
02/02/05	12:56:30	1590.0	48.70	2.491
02/02/05	12:57:00	1620.0	48.72	2.493
02/02/05	12:57:30	1650.0	48.72	2.493
02/02/05	12:58:00	1680.0	48.72	2.493
02/02/05	12:58:30	1710.0	48.72	2.494
02/02/05	12:59:00	1740.0	48.72	2.494
02/02/05	12:59:30	1770.0	48.75	2.494
02/02/05	13:00:00	1800.0	48.75	2.498
02/02/05	13:00:30	1830.0	48.77	2.496
02/02/05	13:01:00	1860.0	48.77	2.496
02/02/05	13:01:30	1890.0	48.77	2.498
02/02/05	13:02:00	1920.0	48.77	2.498
02/02/05	13:02:30	1950.0	48.77	2.500
02/02/05	13:03:00	1980.0	48.77	2.498
02/02/05	13:03:30	2010.0	48.77	2.498
02/02/05	13:04:00	2040.0	48.77	2.498
02/02/05	13:04:30	2070.0	48.77	2.498
02/02/05	13:05:00	2100.0	48.77	2.500
02/02/05	13:05:30	2130.0	48.77	2.500
02/02/05	13:06:00	2160.0	48.77	
				2.500
02/02/05	13:06:30	2190.0	48.77	2.500
02/02/05	13:07:00	2220.0	48.77	2.500

02/02/05	13:07:30	2250.0	48.77	2.502
02/02/05	13:08:00	2280.0	48.77	2.502
02/02/05	13:08:30	2310.0	48.77	2.502
02/02/05	13:09:00	2340.0	48.77	2.502
02/02/05	13:09:30	2370.0	48.77	2.504
02/02/05	13:10:00	2400.0	48.75	2.504
02/02/05	13:10:30	2430.0	48.75	2.502
02/02/05	13:11:00	2460.0	48.75	2.504
02/02/05	13:11:30	2490.0	48.75	2.504
02/02/05	13:12:00	2520.0	48.75	2.504
02/02/05	13:12:30	2550.0	48.75	2.504
02/02/05	13:13:00	2580.0	48.75	2.504
02/02/05	13:13:30	2610.0	48.75	2.504
02/02/05	13:14:00	2640.0	48.75	2.508
02/02/05	13:14:30	2670.0	48.75	2.506
02/02/05	13:15:00	2700.0	48.77	2.506
02/02/05	13:15:30	2730.0	48.77	2.508
02/02/05	13:16:00	2760.0	48.77	2.506
02/02/05	13:16:30	2790.0	48.77	2.508
02/02/05	13:17:00	2820.0	48.77	2.508
02/02/05	13:17:30	2850.0	48.77	2.508
02/02/05	13:18:00	2880.0	48.77	2.509
02/02/05	13:18:30	2910.0	48.77	2.509
02/02/05	13:19:00	2940.0	48.77	2.509
02/02/05	13:19:30	2970.0	48.77	2.509
02/02/05	13:20:00	3000.0	48.77	2.509
02/02/05	13:20:30	3030.0	48.77	2.509
02/02/05	13:21:00	3060.0	48.77	2.511
02/02/05	13:21:30	3090.0	48.77	2.511
02/02/05	13:22:00	3120.0	48.77	2.513
02/02/05	13:22:30	3150.0	48.77	2.513
02/02/05	13:23:00	3180.0	48.77	2.513
02/02/05	13:23:30	3210.0	48.77	2.513
02/02/05	13:24:00	3240.0	48.79	2.515
02/02/05	13:24:30	3270.0	48.79	2.513
02/02/05	13:25:00	3300.0	48.79	2.515
02/02/05	13:25:30	3330.0	48.79	2.515
02/02/05	13:26:00	3360.0	48.79	2.515
02/02/05	13:26:30	3390.0	48.79	2.515
02/02/05	13:27:00	3420.0	48.79	2.515
02/02/05	13:27:30	3450.0	48.79	2.517
02/02/05	13:28:00	3480.0	48.79	2.517
02/02/05	13:28:30	3510.0	48.79	2.517
02/02/05	13:29:00	3540.0	48.79	2.517
02/02/05	13:29:30	3570.0	48.82	2.519
02/02/05	13:30:00	3600.0	48.82	2.519
02/02/05	13:30:30	3630.0	48.82	2.519
02/02/05	13:31:00	3660.0	48.84	
				2.518
02/02/05	13:31:30	3690.0	48.84	2.518
02/02/05	13:32:00	3720.0	48.84	2.520
02/02/05	13:32:30	3750.0	48.84	2.520
02/02/05	13:33:00	3780.0	48.84	2.520
02/02/05	13:33:30	3810.0	48.84	2.520
02/02/05	13:34:00	3840.0	48.84	2.522
02/02/05	13:34:30	3870.0	48.84	2.522
02/02/05	13:35:00	3900.0	48.84	2.522
02/02/05	13:35:30	3930.0	48.84	2.522

02/02/05	13:36:00	3960.0	48.86	2.522
02/02/05	13:36:30	3990.0	48.86	2.524
02/02/05	13:37:00	4020.0	48.86	2.524
02/02/05	13:37:30	4050.0	48.84	2.524
02/02/05	13:38:00	4080.0	48.84	2.524
02/02/05	13:38:30	4110.0	48.84	2.524
02/02/05	13:39:00	4140.0	48.86	2.520
02/02/05	13:39:30	4170.0	48.86	2.520
02/02/05	13:40:00	4200.0	48.86	2.520
02/02/05	13:40:30	4230.0	48.86	2.520
02/02/05	13:41:00	4260.0	48.86	2.522
02/02/05	13:41:30	4290.0	48.86	2.522
02/02/05	13:42:00	4320.0	48.88	2.521
02/02/05	13:42:30	4350.0	48.88	2.521
02/02/05	13:43:00	4380.0	48.88	2.521
02/02/05	13:43:30	4410.0	48.88	2.523
02/02/05	13:44:00	4440.0	48.88	2.523
02/02/05	13:44:30	4470.0	48.88	2.523
02/02/05	13:45:00	4500.0	48.88	2.523
02/02/05	13:45:30	4530.0	48.91	2.523
02/02/05	13:46:00	4560.0	48.91	2.525
02/02/05	13:46:30	4590.0	48.91	2.525
02/02/05	13:47:00	4620.0	48.91	2.525
02/02/05	13:47:30	4650.0	48.91	2.525
02/02/05	13:48:00	4680.0	48.91	2.525
02/02/05	13:48:30	4710.0	48.91	2.525
02/02/05	13:49:00	4740.0	48.91	2.527
02/02/05	13:49:30	4770.0	48.91	2.527
02/02/05	13:50:00	4800.0	48.93	2.527
02/02/05	13:50:30	4830.0	48.93	2.527
			48.93	
02/02/05	13:51:00	4860.0		2.529
02/02/05	13:51:30	4890.0	48.93	2.529
02/02/05	13:52:00	4920.0	48.95	2.528
02/02/05	13:52:30	4950.0	48.93	2.529
02/02/05	13:53:00	4980.0	48.95	2.528
02/02/05	13:53:30	5010.0	48.95	2.528
02/02/05	13:54:00	5040.0	48.95	2.530
02/02/05	13:54:30	5070.0	48.95	2.530
02/02/05	13:55:00	5100.0	48.95	2.530
			48.95	2.530
02/02/05	13:55:30	5130.0		
02/02/05	13:56:00	5160.0	48.95	2.528
02/02/05	13:56:30	5190.0	48.98	2.532
02/02/05	13:57:00	5220.0	48.98	2.532
02/02/05	13:57:30	5250.0	48.98	2.532
02/02/05	13:58:00	5280.0	48.98	2.532
02/02/05	13:58:30	5310.0	48.98	2.532
02/02/05	13:59:00	5340.0	48.98	2.532
02/02/05	13:59:30	5370.0	48.98	2.534
02/02/05	14:00:00	5400.0	48.98	
				2.534
02/02/05	14:00:30	5430.0	48.98	2.534
02/02/05	14:01:00	5460.0	48.98	2.534
02/02/05	14:01:30	5490.0	49.00	2.533
02/02/05	14:02:00	5520.0	49.00	2.533
02/02/05	14:02:30	5550.0	49.00	
				2.535
02/02/05	14:03:00	5580.0	49.00	2.535
02/02/05	14:03:30	5610.0	49.00	2.537
02/02/05	14:04:00	5640.0	49.00	2.535

02/02/05	14:04:30	5670.0	49.02	2.537
02/02/05	14:05:00	5700.0	49.02	2.537
02/02/05	14:05:30	5730.0	49.02	2.539
02/02/05	14:06:00	5760.0	49.02	2.539
02/02/05	14:06:30	5790.0	49.02	2.539
02/02/05	14:07:00	5820.0	49.02	2.537
02/02/05	14:07:30	5850.0	49.02	2.539
02/02/05	14:08:00	5880.0	49.02	2.539
02/02/05	14:08:30	5910.0	49.04	2.541
02/02/05	14:09:00	5940.0	49.04	2.541
02/02/05	14:09:30	5970.0	49.04	2.541
02/02/05	14:10:00	6000.0	49.04	2.541
02/02/05	14:10:30	6030.0	49.07	2.542
02/02/05	14:11:00	6060.0	49.07	2.540
02/02/05	14:11:30	6090.0	49.07	2.542
02/02/05	14:12:00	6120.0	49.09	2.542
02/02/05	14:12:30	6150.0	49.09	2.542
02/02/05	14:13:00	6180.0	49.09	2.544
02/02/05	14:13:30	6210.0	49.09	2.528
02/02/05	14:14:00	6240.0	49.11	2.524
02/02/05	14:14:30	6270.0	49.11	2.520
02/02/05	14:15:00	6300.0	49.11	2.512
02/02/05	14:15:30	6330.0	49.11	2.504
02/02/05	14:16:00	6360.0	49.11	2.500
02/02/05	14:16:30	6390.0	49.11	2.491
02/02/05	14:17:00	6420.0	49.11	2.483
02/02/05	14:17:30	6450.0	49.11	2.481
02/02/05	14:18:00	6480.0	49.14	2.473
02/02/05	14:18:30	6510.0	49.14	2.469
02/02/05	14:19:00	6540.0	49.14	2.465
02/02/05	14:19:30	6570.0	49.14	2.457
02/02/05	14:20:00	6600.0	49.14	2.453
02/02/05	14:20:30	6630.0	49.14	2.445
02/02/05	14:21:00	6660.0	49.16	2.441
02/02/05	14:21:30	6690.0	49.16	2.431
	14:22:00			
02/02/05		6720.0	49.16	2.429
02/02/05	14:22:30	6750.0	49.16	2.425
02/02/05	14:23:00	6780.0	49.16	2.419
02/02/05	14:23:30	6810.0	49.18	2.415
02/02/05	14:24:00	6840.0	49.18	2.407
02/02/05	14:24:30	6870.0	49.18	2.401
02/02/05	14:25:00	6900.0	49.18	2.395
02/02/05	14:25:30	6930.0	49.18	2.389
02/02/05	14:26:00	6960.0	49.18	2.384
02/02/05	14:26:30	6990.0	49.18	2.374
02/02/05	14:27:00	7020.0	49.20	2.367
02/02/05	14:27:30	7050.0	49.20	2.364
02/02/05	14:28:00	7080.0	49.20	2.354
02/02/05	14:28:30	7110.0	49.20	2.350
02/02/05	14:29:00	7140.0	49.20	2.342
02/02/05	14:29:30	7170.0	49.20	2.340
02/02/05	14:30:00	7200.0	49.23	2.328
02/02/05	14:30:30	7230.0	49.23	2.320
		7260.0		
02/02/05	14:31:00		49.23	2.314
02/02/05	14:31:30	7290.0	49.23	2.308
02/02/05	14:32:00	7320.0	49.23	2.296
02/02/05	14:32:30	7350.0	49.23	2.296

APPENDIX B HAZARDOUS WASTE MANIFESTS

In case of emergency or spill, immediately call the National Response Center (800) 424-8802.

TRANSPORTER

FACILITY



COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF HAZARDOUS MATERIALS One Winter Street

Boston, Massachusetts 02108

IN-STAT.

W8528F

COPY>4:

GENERATOR RETAINS

WASTE MANIFEST 3. Generator's Name and Meling Address E. G. I. C. I. C	Please print or type. (Form designed for use on elite	(12-pitch) typewriter.)	<u> </u>	 	reger is			
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Form Approved OMB No. 2050-0039 EPA Form 8700-22 (Rev. 9-94) Previous editions are obsolete.



In case of emergency or spill, immediately call the National Response Center (800) 424-8802.



COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF HAZARDOUS MATERIALS

One Winter Street Boston, Massachusetts 02108

FOR IN-STATE WASTE **OIL ONLY** OR IN-STATE VSQG HW/WO

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١	590 South Street East Raynham, MA 02767			G. 8 ti	to Feeling 610	Not Re	drited
	Mayeran Me Ozioi	0059733	137		anya siyaat		
	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and I	(D Number)	12. Cont	ainers	13. Total	14. Unit	Waste No.
	11. 03 DOT Description involuting Froper Suppling Hemo, Frezera Sizes, and		No.	Туре	Quantity	Wt/Vol	-14
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	Combustible Liquid N.O.S. (Fuel O Combustible, NA 1993, PG 111	siy warel					1.145.470
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	J. Additional Descriptions for Materials Listed Above finctivile physical state a	no nezaro code.)		I na	ndling Godes for W	astes mated	ABOVE
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			4		1.00	,	
-	15. Special Handling Instructions and Additional Information			**************************************			-
	Line	11A ERG Guide	# 12	3			
	24 Hour Emergency Response	Phone # 781-8	3 93-7 7	71			
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to ment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method.							
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١	ment; OR, if I am a small quantity generator, I have made a good faith effort to minimize α can afford.	my waste generation and se	ect the best	waste mai	nagement method tha	i is available to	
	Nac t	- 	1/1				Date
	Printed/Typed Name	Signature	-			Month	Day Year
_	The Unit	10 (1)					1 9 0 0 0 0 Date
ė I	17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name	Signature				Month	
RANSP	ALL AND PAIRER		1.			100	olzide⊘i ≤
ě	18. Transporter 2 Acknowledgement of Receipt of Materials	- MVV					Date
R T	Printed/Typed Name	Signature				Month	
E	,	•				- 1 i	
7	19. Discrepancy Indication Space						
F							
۱	20. Facility Owner or Operator: Certification of receipt of hazardous materials	covered by this manifes	t except as	noted in	Item 19.		
i	,	,		~-			Date
7	Printed/Typed Name	Signeture				Month	
١.	······································	- -				1 1	1 + 1 + 1



case of emergency or spill, immediately call the National Response Center (800) 424-8802.

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COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF HAZARDOUS MATERIALS One Winter Street

FOR IN-STATE WASTE **OIL ONLY** OR IN-STATE VSQG HW/WO

Month

Day

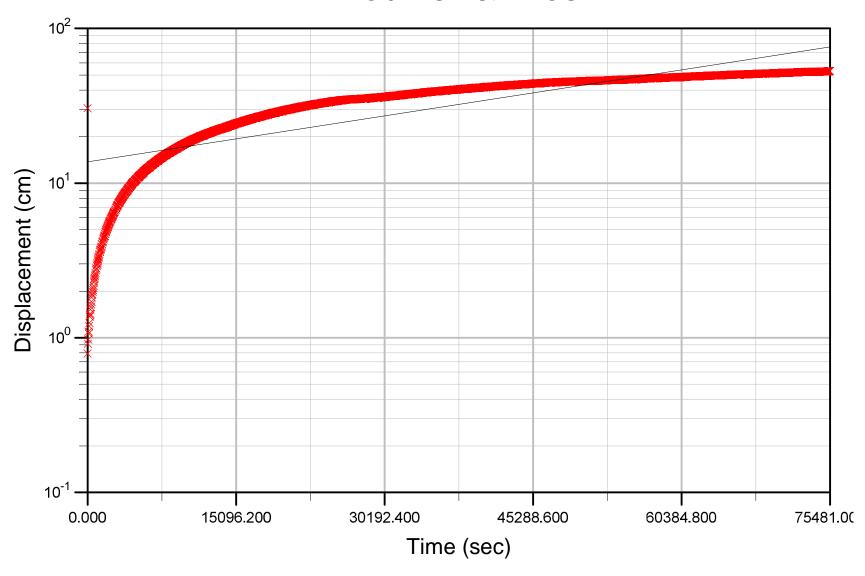
Boston, Massachusetts 02108 Please print or type. (Form designed for use on elite (12-pitch) typewriter,) 1. Generator US EPA ID No. UNIFORM HAZARDOUS Manifest Information in the shaded areas Document No WASTE MANIFEST is not required by Federal law A. State Manifest Docu MA M625654 3. Generator's Name and Mailing Address de Gas Inc NO 1 51 6 - 1 181 B. State Gen. ID 4. Generator's Phone (5. Transporter 1 Company Name US EPA ID Number 6. environmental sol 0005104 ansporter's Pi 7. Transporter 2 Company Name 8. **US EPA ID Number** US EPA ID Number 9. Designated Facility Name and Site Address 10. OLSON'S GREENIGUSE, INC. 590 South Street East Raymbom, MA 02767 MADOSGRAG 12. Containers 14. Unit 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) Total Combustible Liquid N.C.S. (Fuel Oil) Combustible,, NA 1993, PG 111 GENERATO 15. Special Handling Instructions and Additional Information Line Ila and Guide # 128 24 Hour Emergency desponse Phone # 781-893-7771 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I Date Printed/Typed Name Signature Month Day Year 17. Transporter 1 Acknowledgement of Receipt of Mater Date Signature Month Day 18. Transporter 2 Acknowledgement of Receipt of Materials Date Printed/Typed Name Sianature Month Dav 19. Discrepancy Indication Space Ĉ 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Date

Printed/Typed Name

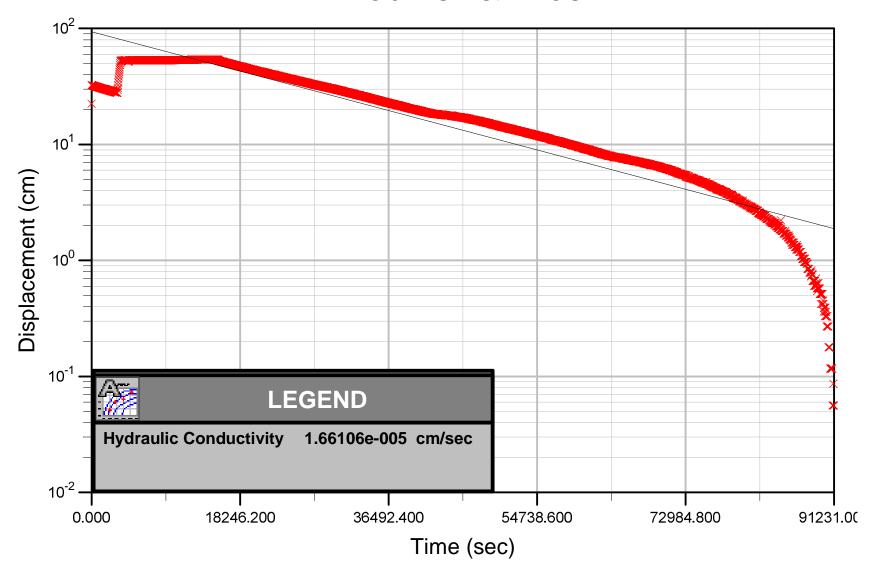
Signature

APPENDIX C
HYDRAULIC CONDUCTIVITY CALCULATIONS

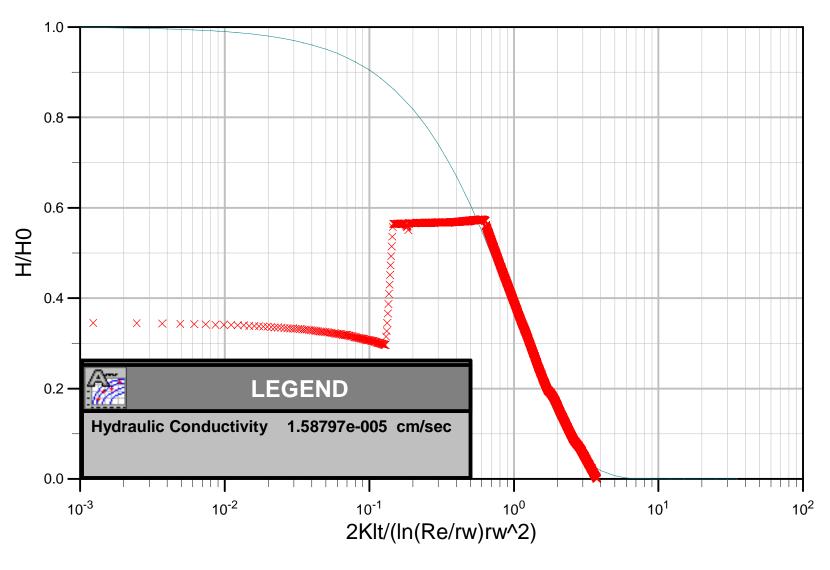
Bouwer & Rice



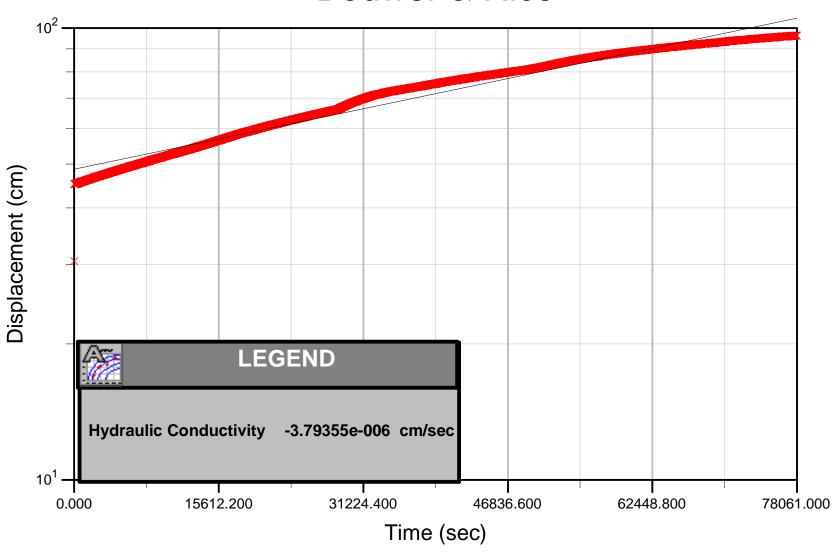
Bouwer & Rice



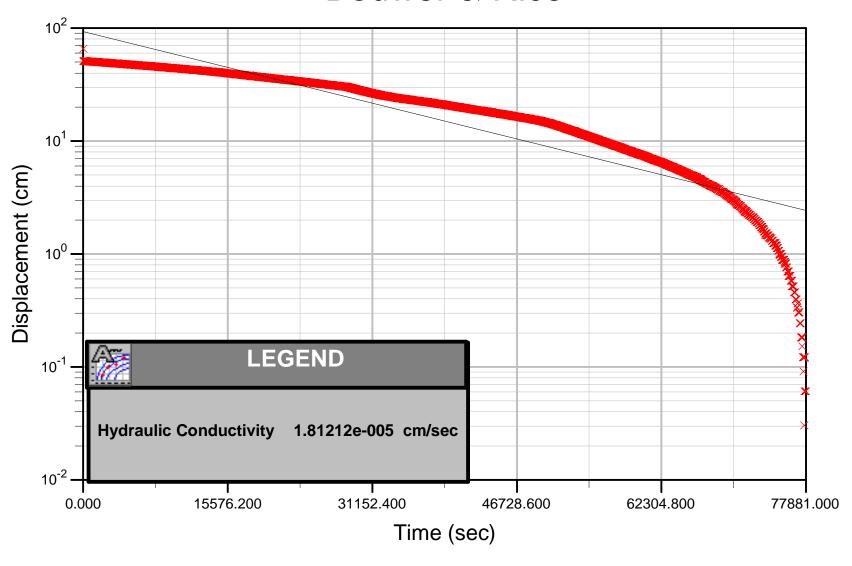
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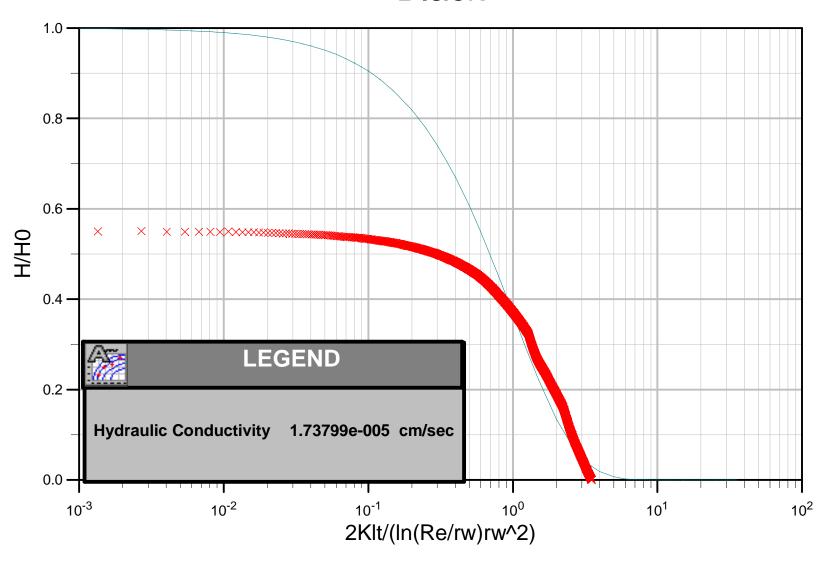
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Bouwer & Rice



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APPENDIX D
CERTIFICATE OF ANALYSIS

GeoLabs, Inc.

Environmental Laboratories



LABORATORY REPORT

PREPARED FOR: **Decoulos & Company** 3 Electronics Avenue Danvers, MA 01923 Attn: Jim Decoulos **Eagle Gas Station PROJECT ID:** Carver, MA **GEOLABS CERTIFICATION #:** M-MA015 **SAMPLE NUMBER:** 161500 February 17, 2005 **DATE PREPARED:** PREPARED BY: Karen Mullally **APPROVED BY:** Jim Chen, Laboratory Director

Location: 45 Johnson Lane

Braintree, MA 02184

Phone: (781) 848-7844 Fax: (781) 848-7811

GeoLabs, Inc.

Environmental Laboratories

MADEP MCP Response Action Analytical Report Certification Form

Laboratory Project Lo		GeoLabs, Inc. Carver, MA	_	Project #: MADEP R	TN:	Eagle Gas	Station
This form ր	provides certi	fications for the following	g data set:	161500		-	
Sample ma	atrices:	Groundwater (x)	Soil / Sedin	nent ()	Drinking W	ater ()	Other ()
MCP SW-8 Methods I		8260B () 8151A () 8270C () 8081A () 8082 () 8021B ()	8330 () VPH () EPH ()	6010B () 6020 () 7000 S ³ ()	7470/1A () 9014M ² ()	` '	8100M
Compendi Analytical	um of	1- List Release Trackin 2- M - SW-846 Method 3- S - SW-846 Methods	9014 or MAI	DEP Physio	logically Avai	•	, ,
An affirma	ative respons	se to questions A, B, a	nd C is requ	ired for "P	resumptive	Certainty " s	status
А		mples received by the la	•			Yes(x)	No ¹ ()
В	included in discuss in a	A/QC procedures require this report followed, inclu narrative QC data that or guidelines?	uding the req	uirement to	note and		No ¹ ()
С	Does the ar for "Presum documents	nalytical data included in aptive Certainty", as desc CAM VII A, "Quality Ass uisition and Reporting of	cribed in Sec surance and (tion 2.0 of tl Quality Con	he MADEP		No ¹ ()
A respons	se to questio	ns D and E below is re	equired for "	Presumptiv	ve Certainty	" status	
D		C performance standards ethods achieved?	s and recom	mendations	for the	Yes (x)	No ¹ ()
E	Were result method(s) r	s for all analyte-list comeported?	•		·	Yes (x)	` ,
	¹ All NO ans	weres must be addresse	ed in an attac	ched Enviro	nmental Labo	oratory case	narrative.
inquiry of	those respo	est under the pains an nsible for obtaining the f my knowledge and be	e informatio	n, the mate	erial contain		
Signature:			<u>_</u>	Position:	Lab Directo	or	_
Printed Na	ıme:	Jim Chen	_	Date:	February 1	7, 2005	_

GeoLabs, Inc. Environmental Laboratories

Case Narrative

Project ID: Eagle Gas Station Sample Number: 161500 Client Name: Decoulos & Company Received: 02/16/05

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. Sample received on ice at 5 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

CLIENT NAME: Decoulos & Co. PROJECT ID: Eagle Gas Station

SAMPLE TYPE: **GROUND WATER** REPORT DATE: 02/17/05 COLLECTION DATE: 02/16/05 ANALYZED BY: **GAP** REC'D BY LAB: 02/16/05 ANALYSIS DATE: 02/17/05 COLLECTED BY: CLIENT DIGESTION DATE: 02/17/05

PRESERVATIVE: SULFURIC ACID

TOTAL PETROLEUM HYDROCARBONS

SAMPLE SAMPLE TPH DETECTION LIMIT NUMBER LOCATION (mg/L) (mg/L)

161500 S-1 **16.6** 0.20

ND = NOT DETECTED

Method Reference:

EPA Method 8100 (1) Modified

1) U.S. EPA Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 1986, 3rd Edition.

GeoLabs, Inc. Environmental Laboratories

CLIENT NAME: Decoulos & Co. PROJECT ID: Eagle Gas Station

SAMPLE TYPE: GROUND WATER REPORT DATE: 02/17/05 COLLECTION DATE: 02/16/05 ANALYZED BY: GAP

REC'D BY LAB: 02/16/05 COLLECTED BY: CLIENT

TPH WATER QA/QC

	BLANK	MDL	LCS %	% REC.
Gasoline	ND	0.2 mg/L		
Kerosene / Jet Fuel	ND	0.2 mg/L		
Diesel Fuel #2	ND	0.2 mg/L	92%	40-140%
Fuel #4	ND	0.2 mg/L		
Fuel #6	ND	0.2 mg/L		
Transformer Oil	ND	0.2 mg/L		
Parafin Oil	ND	0.2 mg/L		
Motor Oil	ND	0.2 mg/L		
Surrogate				
OTP % Recovery	94%		100%	40-140%

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		RUSH:	三 5 5 8		Turnaround Time	d Time STANDARD: 5 Days	S	Page of /	of /		
		.	Zans.		28	Rush Approved By:					
Decoulds +	+ Co.	Project Nu Project Lo	Number: Location:	139 k		Gas STaTIO 4					
43.96	39.5	Purchase Order #: Collected By:	Order # By:								
COLLECTION		CONTAINER	2		\vdash			ANALYSES REQUESTED	EQUESTED	F	
EM - T	SAMPLE	С⊃∢х⊢ ⊢≻сш	≥ ∢⊢⊻-×	OOEL	0 K A B	GEOLABS SAMPLE NUMBER	1. 2018 Hal			BAUTAAB9MBT	1 4 B G I
13.30		1	OW		2 *		\ \				
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			·								
CONTAINER CODES: A = Amber	MATRIX CODES: GW = Ground Water	PRE 1 = 1		7 = ICE	DES:	Refinquished By:	Date/Time	Reodiyed By:	7		ne:
	WW = Wastewater DW = Drinking Water	9 8	= HNO ₃ = H ₂ SO ₄			Relinquished By:	p and	Received By:			
P = Plastic S = Summa Canister	SL = Sludge S = Soil A = Air	4 ro	= Na ₂ S ₂ O ₃ = Na ⁰ OH			Relinquished By:		Received By GeoLabs:	y GeoLabs:		
= Other V = VOA	0 = Oil OT = Other	9	= MeOH	:		5	GEOLABS CHAIN OF CUSTODY	IN OF CU	STODY	į	

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APPENDIX E ACTIVATED CARBON DESIGN 4:38 PM

LIQUID PHASE CARBON USAGE ESTIMATE CARBTROL® Corporation

PROJECT: Decoulos & Co. MA Eagle Gas Station

FLOW IN GPD: 4320.00 FLOW IN GPM: 3.00

PERFORMANCE:

CONTAMINANT	CONC(ppb)	#CONT /DAY	# CARBON /DAY	# CONT /1000 gal	# CARBON /1000 gal
Diesel (as Naphthalene)	17000	0.61	1.56	0.14	0.36
TOTALS	17000	0.61	1.56	0.14	0.36
Calculation based on CARBTROL CSL carbon having an lodine number of:	carbon having an	lodine numbe	er of:	1100.00	

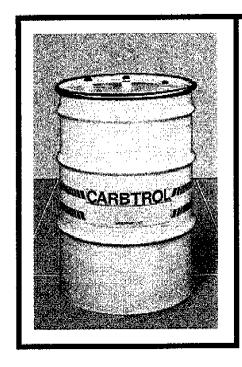
1100.00

CARBTROL Corporation Copyright© 1994 - 1996

CARBTROL®

WATER PURIFICATION CANISTER 200 POUND ACTIVATED CARBON

L-1



The CARBTROL L-1 (liquid) Canister handles up to 10 gpm.

FEATURES

- 200 pounds of high activity carbon.
- Large 1 1/4" internal piping. Low pressure drop allows operation of three canisters in series.
- Standard FPT couplings for easy installation - saves time and money.
- Special "no leak" lid gasket.
- Heavy duty steel drums. Acceptable for transport of hazardous spent carbon.
- · Piping design eliminates channeling.

SPECIFICATIONS

DRUM: 24" Ø x 34" high,

mild steel, epoxy phenolic internal coating with

polyethylene liner.

CARBON: 200 lbs.

SHIPPING WEIGHT: 250 lbs.

INLET: 1 1/4" FPT, steel OUTLET: 1 1/4" FPT, steel

INTERNAL PIPING: 1 1/4" PVC

DRAIN: 3/4" bung

PRESSURE DROP: 1.25 psi @ 10 gpm

MAX. OPERATING

PRESSURE: 10 psi

R 1.5 E S Ş Š S D D R 1.0 2 o o P 0.5F Т S ı Н G 2 10 5 FLOW--GPM

© Copyright 1991 Carbtrol Corporation - 11/15/96

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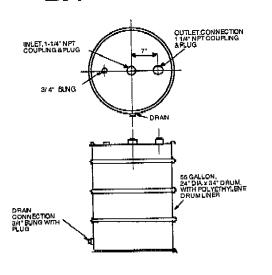


955 Connecticut Ave., Suite 5202 Bridgeport, CT 06607 800-242-1150 Fax: 203-337-4353 www.carbtrol.com info@carbtrol.com

CARBTROL®

WATER PURIFICATION CANISTER 200 POUND ACTIVATED CARBON

L-1



OPTIONS

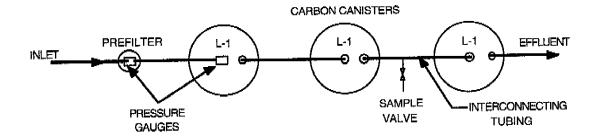
Interconnecting Piping Kit

Flexible 1 1/4" diameter PVC tubing with hose clamps. Includes inlet pressure gauge and intermediate sample valve.

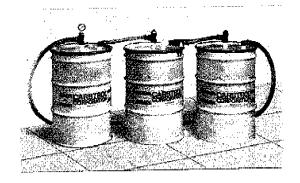
Pre-filter for Suspended Solids Removal

Pre-filter consisting of a basket filter piped and mounted on support frame. Filter is of carbon steel construction.

ARRANGEMENT (3) L-1 Canisters in series for 10 gpm flow (Contact time @ 10 gpm - 15 minutes)



TYPICAL INSTALLATION





955 Connecticut Ave., Suite 5202 Bridgeport, CT. 06607

APPENDIX F
INFILTRATION CALCULATIONS

GROUNDWATER INFILTRATION TRENCH DESIGN EAGLE GAS, INC. 131 MAIN STREET, CARVER, MA

Saturated Trench Sidewall Area (ft2) Conversion (cm2/ft2)	530 929	
Saturated Trench Sidewall Area (cm2)	492,370	
Worst Expected Permeability (cm/sec)	1.85E-05	
Area (cm2)	492,370	
Flow rate (cm3/sec)	9.11	
Conversion (cm3/mL)	1	
Flow Rate (ml/sec)	9.11	
Conversion (L/ml)	0.00	
Flow Rate (L/sec)	0.01	
Conversion (gallons/L)	0.26	
Flow Rate (gal/sec)	0.00	
Conversion (sec/min)	60	
Flow Rate (gal/min)	0.14	
Conversion (min/day)	1440	
Anticipated Flow Rate (gal/day)	207.77	
adjusted Title 5 greywater design rate	124.66	GPD, which equals 609 (see 310 CMR 15.289

% of design flow (see 310 CMR 15.289(3)(a)(2))

...using a Safety Factor of 2.5

311.65 GPD (for Title 5 infiltration design)

Aggregate border around each Infiltrator 2 ft Infiltrators per Trench 6

Length 41.50 ft Width 6.83 ft Sidewall Height 2.00 ft

No. of Chamber Trenches 2

> Sidewall Area = 386.67 sf 567.17 sf Bottom Area = Total Area = 953.83 sf

TOTAL FLOW CAPACITY = 314.77 GPD

> (using Soil Class III at 25 min/in perc rate) (see 310 CMR 15.242)