MAG9101124

B. Suggested Form for Notice of Intent (NOI) for the Remediation General Permit

1. General site information. Please provide the following information about the site:

a) Name of **facility/site**: Former Mobil Marlborough Terminal		**Facility/site** address:		
Location of **facility/site**: longitude: 71 32 latitude: 42 20	Facility SIC code(s): 5171	Street: 279 Maple Street		
b) Name of **facility/site owner:** Exxon Mobil Corporation		Town: Marlborough		
Email address of owner: michael.a.lamarre@exxonmobil.com		State: MA	Zip: 01752	County: Middlesex
Telephone no.of facility/site **owner**: (401) 434-7358				
Fax no. of facility/site **owner**: (401) 431-1121		**Owner** is (check one): 1. Federal____ 2. State/Tribal____ 3. Private ✔ 4. other, if so, describe:		
Address of **owner** (if different from site):				
Street: 1001 Wampanaog Trail				
Town: Riverside	State: RI	Zip: 02915	County: Providence	
c) Legal name of **operator**: Exxon Mobil Corporation	**Operator** telephone no: (401) 434-7358			
	Operator fax no.: (401) 431-1121	**Operator** email: michael.a.lamarre@exxonmobil.com		
Operator contact name and title: Michael A. Lamarre, Project Manager				

Address of **operator** (if different from owner):	Street:		
Town:	State:	Zip:	County:

d) Check "yes" or "no" for the following:
1. Has a prior NPDES permit exclusion been granted for the discharge? Yes ✔ No___, if "yes," number: Temporary #MA-031-010, 2/10/03
2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge? Yes___ No ✔, if "yes," date and tracking #:
3. Is the discharge a "new discharge"as defined by 40 CFR 122.2? Yes ✔ No___
4. For sites in Massachusetts, is the discharge covered under the MA Contingency Plan (MCP) and exempt from state permitting? Yes ✔ No___

e) Is site/facility subject to any State permitting or other action which is causing the generation of discharge? Yes___ No ✔ If "yes," please list: 1. site identification # assigned by the state of NH or MA: 2. permit or license # assigned: 3. state agency contact information: name, location, and telephone number:	f) Is the site/facility covered by any other EPA permit, including: 1. multi-sector storm water general permit? Y___ N ✔, if Y, number: 2. phase I or II construction storm water general permit? Y___ N ✔, if Y, number: 3. individual NPDES permit? Y___ N ✔, if Y, number: 4. any other water quality related permit? Y___ N ✔, if Y, number:

2. Discharge information. Please provide information about the discharge, (attaching additional sheets as needed) including:

a) Describe the discharge activities for which the owner/applicant is seeking coverage:
See Attachment

b) Provide the following information about each discharge:	1) Number of discharge points: 1	2) What is the **maximum** and **average flow rate** of discharge (in cubic feet per second, ft^3/s)? Max. flow 0.04 Average flow 0.02 Is maximum flow a **design value**? Y ✔ N___ For average flow, include the units and appropriate notation if this value is a design value or estimate if not available. cubic feet per second

3) Latitude and longitude of each discharge within 100 feet: pt.1:long. 71 32 lat. 42 20 ; pt.2: long._____ lat._____; pt.3: long._____ lat._____; pt.4:long._____ lat._____; pt.5: long._____ lat._____; pt.6:long._____ lat._____; pt.7: long._____ lat._____; pt.8:long._____ lat._____; etc.

4) If hydrostatic testing, total volume of the discharge (gals): N/A	5) Is the discharge intermittent_____or seasonal_____? Is discharge ongoing Yes ✔ No_____?
c) Expected dates of discharge (mm/dd/yy): start 04/19/04 end 12/31/07	
d) Please attach a line drawing or flow schematic showing water flow through the facility including: 1. sources of intake water, 2. contributing flow from the operation, 3. treatment units, and 4. discharge points and receiving waters(s).	

3. Contaminant information. In order to complete this section, the applicant will need to take a minimum of one sample of the untreated water and have it analyzed for **all** of the parameters listed in Appendix III. Historical data, (i.e., data taken no more than 2 years prior to the effective date of the permit) may be used if obtained pursuant to: i. Massachusetts' regulations 310 CMR 40.0000, the Massachusetts Contingency Plan ("Chapter 21E"); ii. New Hampshire's Title 50 RSA 485-A: Water Pollution and Waste Disposal or Title 50 RSA 485-C: Groundwater Protection Act; or iii. an EPA permit exclusion letter issued pursuant to 40 CFR 122.3, provided the data was analyzed with test methods that meet the requirements of this permit. Otherwise, a new sample shall be taken and analyzed.

a) Based on the analysis of the sample(s) of the untreated influent, the applicant must check the box of the sub-categories that the potential discharge falls within.

Gasoline Only	VOC Only	Primarily Metals	Urban Fill Sites	Contaminated Sumps	Mixed Contaminants	Aquifer Testing
Fuel Oils (and Other Oils) only	VOC with Other Contaminants ✔	Petroleum with Other Contaminants	Listed Contaminated Sites	Contaminated Dredge Condensates	Hydrostatic Testing of Pipelines/Tanks	Well Development or Rehabilitation

b) Based on the analysis of the untreated influent, the applicant must indicate whether each listed chemical is **believed present** or **believed absent** in the potential discharge. Attach additional sheets as needed.

PARAMETER	**Believe Absent**	**Believe Present**	**# of Samples (1 min-imum)**	**Type of Sample (e.g., grab)**	**Analytical Method Used (method #)**	**Minimum Level (ML) of Test Method**	**Maximum daily value**		**Avg. daily value**	
							concentration (ug/l)	**mass (kg)**	**concentration (ug/l)**	**mass (kg)**
1. Total Suspended Solids	↘									
2. Total Residual Chlorine	✔									
3. Total Petroleum Hydrocarbons		✔	17	grab	8015	0.1ug/l	4.664		1.5	
4. Cyanide	✔									
5. Benzene		✔	17	grab	624	0.5ug/l	15.3		5.5	
6. Toluene		✔	17	grab	624	1 ug/l	<1		<1	
7. Ethylbenzene		✔	17	grab	624	1 ug/l	22.3		9.0	
8. (m,p,o) Xylenes		✔	17	grab	624	1 ug/l	9.3		4.0	
9. Total BTEX[4]		✔	17	grab	624	N/A	44		16.8	

[4]BTEX = Sum of Benzene, Toluene, Ethylbenzene, total Xylenes.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
10. Ethylene Dibromide (1,2- Dibromo-methane)	✔									
11. Methyl-tert-Butyl Ether (MtBE)		✔	17	grab	624	1 ug/l	5.5		1.9	
12. tert-Butyl Alcohol (TBA)	✔									
13. tert-Amyl Methyl Ether (TAME)	✔									
14. Naphthalene		✔	17	grab	8270C	5.1ug/l	8.5		6.3	
15. Carbon Tetra-chloride	✔									
16. 1,4 Dichlorobenzene	✔									
17. 1,2 Dichlorobenzene	✔									
18. 1,3 Dichlorobenzene	✔									
19. 1,1 Dichloroethane	✔									
20. 1,2 Dichloroethane	✔									
21. 1,1 Dichloroethylene	✔									
22. cis-1,2 Dichloro-ethylene	✔									
23. Dichloromethane (Methylene Chloride)	✔									
24. Tetrachloroethylene	✔									

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily Value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
25. 1,1,1 Trichloroethane	✔									
26. 1,1,2 Trichloroethane	✔									
27. Trichloroethylene	✔									
28. Vinyl Chloride	✔									
29. Acetone	✔									
30. 1,4 Dioxane	✔									
31. Total Phenols	✔									
32. Pentachlorophenol	✔									
33. Total Phthalates [5] (Phthalate esthers)	✔									
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	✔									
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	✔									
a. Benzo(a) Anthracene	✔									
b. Benzo(a) Pyrene	✔									
c. Benzo(b)Fluoranthene	✔									
d. Benzo(k) Fluoranthene	✔									
e. Chrysene	✔									

[5] The sum of individual phthalate compounds.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
f. Dibenzo(a,h) anthracene	✔									
g. Indeno(1,2,3-cd) Pyrene	✔									
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)		✔	17	grab	8270C	NA	8.5		6.3	
h. Acenaphthene	✔									
i. Acenaphthylene	✔									
j. Anthracene	✔									
k. Benzo(ghi) Perylene	✔									
l. Fluoranthene	✔									
m. Fluorene	✔									
n. Naphthalene-		✔	17	grab	8270C	NA	8.5		6.3	
o. Phenanthrene	✔									
p. Pyrene	✔									
37. Total Polychlorinated Biphenyls (PCBs)	✔									
38. Antimony	✔									
39. Arsenic	✔									
40. Cadmium	✔									
41. Chromium III	✔									
42. Chromium VI	✔									

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
43. Copper	✔									
44. Lead	✔									
45. Mercury	✔									
46. Nickel	✔									
47. Selenium	✔									
48. Silver	✔									
49. Zinc	✔									
50. Iron		✔	7	grab	6010B	100ug/l	44800		30624	
Other (describe):										

c) For discharges where **metals** are believed present, please fill out the following:

Step 1: Do any of the metals in the influent have a **reasonable potential** to exceed the effluent limits in Appendix III (i.e., the limits set at zero to five dilutions)? Y___✔___ N____	If yes, which metals? Iron
Step 2: For any metals which have **reasonable potential** to exceed the **Appendix III** limits, calculate the **dilution factor (DF)** using the formula in Part I.A.3.c) (step 2) of the NOI instructions or as determined by the State prior to the submission of this NOI. What is the dilution factor for applicable metals? Metals: Dillution is negligable due to discharge to a drainage swale DF: N/A	Look up the limit calculated at the corresponding dilution factor in **Appendix IV.** Do any of the metals in the **influent** have the potential to exceed the corresponding **effluent** limits in Appendix IV (i.e., is the influent concentration above the limit set at the calculated dilution factor)? Y____ N____ If "Yes," list which metals:

4. Treatment system information. Please describe the treatment system using separate sheets as necessary, including:

a) A description of the treatment system, including a schematic of the proposed or existing treatment system:

See Attachment

b) Identify each applicable treatment unit (check all that apply):	Frac. tank	Air stripper	Oil/water separator ✔	Equalization tanks	Bag filter ✔	GAC filter ✔
	Chlorination	Dechlorination	Other (please describe): Diffuser (aeriation) Tank and Clarifier Tank			

c) Proposed **average** and **maximum flow rates** (gallons per minute) for the discharge and the **design flow rate**(s) (gallons per minute) of the treatment system:
Average flow rate of discharge 11 Maximum flow rate of treatment system 18 Design flow rate of treatment system 18

d) A description of chemical additives being used or planned to be used (attach MSDS sheets):

No chemical additives are being used or are planned to be used.

5. Receiving surface water(s). Please provide information about the receiving water(s), using separate sheets as necessary:

a) Identify the discharge pathway:	Direct_____	Within facility__	Storm drain____	River/brook____	Wetlands_____	Other (describe): Drainage swale to wetland

b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters:

See Attachment

c) Attach a detailed map(s) indicating the site location and location of the outfall to the receiving water:
1. For multiple discharges, number the discharges sequentially.
2. For indirect dischargers, indicate the location of the discharge to the indirect conveyance and the discharge to surface water
The map should also include the location and distance to the nearest sanitary sewer as well as the locus of nearby sensitive receptors (based on USGS topographical mapping), such as surface waters, drinking water supplies, and wetland areas.

d) Provide the state water quality classification of the receiving water Class A Emergency Source ,

e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water 0 cfs
Please attach any calculation sheets used to support stream flow and dilution calculations.

f) Is the receiving water a listed 303(d) water quality impaired or limited water? Yes ✔ No____ If yes, for which pollutant(s)?
Metals

Is there a TMDL? Yes ✔ No____ If yes, for which pollutant(s)?
Metals

6. Results of Consultation with Federal Services: Please provide the following information according to requirements of Part I.B.4 and Appendices II and VII.

a) Are any listed threatened or endangered species, or designated critical habitat, in proximity to the discharge? Yes____No ✔
Has any consultation with the federal services been completed ? No ✔ or is consultation underway? No ✔
What were the results of the consultation with the U.S. Fish and Wildlife Service and/or National Marine Fisheries Service (~~check~~ one):
a "no jeopardy" opinion? Yes or written concurrence____ on a finding that the discharges are not likely to adversely affect any endangered species or critical habitat?

b) Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility or site or in proximity to the discharge?
Yes_____ No ✔ Have any state or tribal historic preservation officer been consulted in this determination (Massachusetts only)? Yes_____ No ✔

7. Supplemental information. :

Please provide any supplemental information. Attach any analytical data used to support the application. Attach any certification(s) required by the general permit.

See Attachment

8. Signature Requirements: The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22, including the following certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Facility/Site Name: Former Mobil Marlborough Terminal

Operator signature: 

Title: Project Manager

Date: 10/21/05

Attachment to Notice of Intent (NOI)
For the Remediation General Permit

Former Mobil Marlborough Terminal
179 Maple Street, Marlborough, Massachusetts

Roux Associates, Inc. (Roux Associates), on behalf of ExxonMobil Refining & Supply – Global Remediation (ExxonMobil), is providing the following information regarding the ground water dewatering system (treatment system) operating at the former Mobil Marlborough Terminal located at 279 Maple Street in Marlborough, Massachusetts (hereafter referred to as "the Site").

Site Background

The Site is the Former Marlborough/Marlco Terminal located at 279 Maple Street in Marlborough, Massachusetts. The Site comprises 1.41 acres of land located on the west side of Maple Street (Route 85), just south of the intersection with Framingham Road in Marlborough, Massachusetts (Figure 1). The Site is located in a predominantly commercial area in the Town and is currently vacant. As discussed below, tanks and other structures associated with the former Mobil Marlborough Terminal have been removed. The property is owned by ExxonMobil.

The Site was used as a bulk storage and loading facility between the late 1890s and 1982 for various petroleum products, including gasoline, fuel oil, kerosene and possibly diesel fuel. Eight above-ground petroleum bulk storage tanks (ASTs) reportedly ranging in size from 10,000 to 210,000 gallons were located at the Site along with a pump house and a loading rack with associated dispensing equipment. Four of the ASTs, the loading rack, associated dispensing equipment and the pump house were dismantled and removed in 1990. Information on the removal of the other four ASTs was not found in the project file; however, these ASTs had been removed from the Site by 1990. Two single-story buildings, which had been used as an office and garage, were removed in May 2001. The Site is currently vacant with the exception of two remediation system equipment compounds located at the Site (Trailer #1 and Trailer #2). The former buildings and structures previously located at the property are shown on Figure 1.

The central portion of the Site is mostly covered with broken bituminous pavement, gravel, and/or concrete. The western portion of the Site is unpaved with vegetation cover and former concrete dike walls. The northern and eastern portions of the Site are mostly unpaved grassy areas, with the exception of two driveways that provide access from Maple Street.

Remediation System Information

The installation of a vacuum enhanced ground water extraction (VEGE) and air sparge (AS) systems were initiated by GES in August 2001. In February/March 2004, Roux Associates installed an aeration tank/diffuser and clarifier. A Site Plan showing the location of the ground water extraction wells and associated system components is

provided as Figure 1. In addition, a Piping & Instrumentation Diagram (P&ID) detailing the current remediation system design is provided as Figure 2. Currently the remediation system operating at Site includes the following:

- The ground water extraction portion of the VEGE system: The ground water extraction portion of the system consists of a series of 11 submersible pumps, which pump ground water from 11 recovery wells (RW1 through RW10 and GES-2) to an oil/water separator. Note that well GES-2 was connected to the VEGE system by Roux Associates on December 9, 2004. Information regarding the connection of GES-2 is provided below in section 3.2. Water from the separator is transferred to an aeration (diffuser) tank before gravity flow through a clarifier. Water from the clarifier is pumped through two bag particulate filters and then through two parallel sets of liquid granular activated carbon (LGAC) units, each having a primary and secondary unit, plumped in series. Water from the LGAC units is discharged to a drainage swale which in turn discharges to a wetland located to the south of the Site. Currently flow through the treatment system is approximately 10 gallons per minute.

- The vapor extraction portion of the VEGE system: The vapor extraction portion of the VEGE system extracts soil vapor from 10 recovery wells (RW1 through RW10) using a positive displacement blower. Extracted soil vapor is treated using a phase separator to remove entrained water droplets and then through two 500 pound vapor phase granular activated carbon (VGAC) units in series prior to being discharged to the atmosphere. Liquid that accumulates in the phase separator is transferred to the oil/water separator.

- AS system: The AS portion of the system consists of an air compressor and ten AS points (AS2 through AS11), which inject air into the saturated zone in and below the vertical extent of petroleum impact.

Effluent Discharge and Remediation System Sampling Information

As indicated above, water from the treatment system is discharged to a drainage swale which in turn discharges to a wetland located to the south of the Site. This wetland drains to the east beneath Maple Street via culvert to another wetland located on the opposite side (to the east) of Maple Street. These wetlands eventually drain to the Sudbury Reservoir via an unnamed tributary. (Note that the Sudbury Reservoir is not a Current Drinking Water Source but is a MADEP approved emergency drinking water supply surface water body - Class A surface water body according to the Wachusett/Sudbury Section of the Department of Conservation and Recreation Division of Water Supply Protection). The associated wetland buffer zone for the wetland areas extends onto the Site property as shown on Figure 1. A drainage swale (Figure 1) exists on the MDC property and when present, water in the swale flows west to east. On May 15, 2001 ExxonMobil received an Order of Conditions for MADEP File #212-849 approving the discharge and on November 1, 2002, the MDC approved the discharge to the MDC property.

The treatment system pumping from the original 10 wells was activated on April 19, 2004. An 11th well was brought online on December 9, 2004. Currently treatment system samples are collected on a monthly basis in accordance with Attachment A of the United States Environmental Protection Agency's (USEPA's) February 10, 2003 letter (Attached). System samples were recently collected on September 27, 2005 from the following locations of the system:

- Influent to the Diffuser ("INF DIF");
- Influent to the LGAC units ("INF LGAC");
- Effluent of the two (left and right) primary LGAC units ("PRIM LT LGAC" and "PRIM RT LGAC"); and
- Effluent of the two (left and right) secondary LGAC units ("SEC LT LGAC" and SEC RT LGAC") prior to discharge to the drainage swale.

A summary of the September 27, 2005 system sampling results along with previous system effluent sampling results is summarized in Table 1. The analytical laboratory report along with the laboratory quality control information is also provided. As shown in Table 1, effluent concentrations remain below the effluent limits listed in Attachment A of the USEPA's February 10, 2003 letter.

Attachments:

Figure 1 – Site Plan
Figure 2 – P&ID
USEPA's February 10, 2003 letter
Laboratory Analytical Report (attached as separate file)

TABLE 1
Summary of Effluent System Sampling Analytical Results

Former Mobil Marlborough Terminal
279 Maple Street, Marlborough, Massachusetts

Analyte	*Effluent Limits*	INF DIF (Influent)																		
		04/19/04	04/21/04	04/23/04	04/27/04	05/07/04	06/15/04	07/15/04	08/12/04	10/01/04	11/03/04	12/28/04	01/18/05	02/16/05	03/18/05	05/27/05	06/20/05	07/21/05	08/23/05	09/27/05
PAHS (SVOCs 8270C) (ug/l)																				
Acenaphthene	--	5U	5.1U	5.1U	6.4U	5.9U	5.3U	5.4U	5.1U	5.3U	5U	5.5U	5.3U	5.1U	5.1U	5.1U	5.2U	5U	5.1U	5U
Acenaphthylene	--	5U	5.1U	5.1U	6.4U	5.9U	5.3U	5.4U	5.1U	5.3U	5U	5.5U	5.3U	5.1U	5.1U	5.1U	5.2U	5U	5.1U	5U
Anthracene	--	5U	5.1U	5.1U	6.4U	5.9U	5.3U	5.4U	5.1U	5.3U	5U	5.5U	5.3U	5.1U	5.1U	5.1U	5.2U	5U	5.1U	5U
Benzo(a)anthracene	--	5U	5.1U	5.1U	6.4U	5.9U	5.3U	5.4U	5.1U	5.3U	5U	5.5U	5.3U	5.1U	5.1U	5.1U	5.2U	5U	5.1U	5U
Benzo(a)pyrene	--	5U	5.1U	5.1U	6.4U	5.9U	5.3U	5.4U	5.1U	5.3U	5U	5.5U	5.3U	5.1U	5.1U	5.1U	5.2U	5U	5.1U	5U
Benzo(b)fluoranthene	--	5U	5.1U	5.1U	6.4U	5.9U	5.3U	5.4U	5.1U	5.3U	5U	5.5U	5.3U	5.1U	5.1U	5.1U	5.2U	5U	5.1U	5U
Benzo(g,h,i)perylene	--	5U	5.1U	5.1U	6.4U	5.9U	5.3U	5.4U	5.1U	5.3U	5U	5.5U	5.3U	5.1U	5.1U	5.1U	5.2U	5U	5.1U	5U
Benzo(k)fluoranthene	--	5U	5.1U	5.1U	6.4U	5.9U	5.3U	5.4U	5.1U	5.3U	5U	5.5U	5.3U	5.1U	5.1U	5.1U	5.2U	5U	5.1U	5U
Chrysene	--	5U	5.1U	5.1U	6.4U	5.9U	5.3U	5.4U	5.1U	5.3U	5U	5.5U	5.3U	5.1U	5.1U	5.1U	5.2U	5U	5.1U	5U
Dibenz(a,h)anthracene	--	5U	5.1U	5.1U	6.4U	5.9U	5.3U	5.4U	5.1U	5.3U	5U	5.5U	5.3U	5.1U	5.1U	5.1U	5.2U	5U	5.1U	5U
Fluoranthene	--	5U	5.1U	5.1U	6.4U	5.9U	5.3U	5.4U	5.1U	5.3U	5U	5.5U	5.3U	5.1U	5.1U	5.1U	5.2U	5U	5.1U	5U
Fluorene	--	5U	5.1U	5.1U	6.4U	5.9U	5.3U	5.4U	5.1U	5.3U	5U	5.5U	5.3U	5.1U	5.1U	5.1U	5.2U	5U	5.1U	5U
Indeno(1,2,3-cd)pyrene	--	5U	5.1U	5.1U	6.4U	5.9U	5.3U	5.4U	5.1U	5.3U	5U	5.5U	5.3U	5.1U	5.1U	5.1U	5.2U	5U	5.1U	5U
Naphthalene	*20*	**5.3**	**5.1**	**8.5**	6.4U	5.9U	5.3U	5.4U	5.1U	5.3U	5U	5.5U	5.3U	5.1U	5.1U	5.1U	5.2U	5U	5.1U	5U
Phenanthrene	--	5U	5.1U	5.1U	6.4U	5.9U	5.3U	5.4U	5.1U	5.3U	5U	5.5U	5.3U	5.1U	5.1U	5.1U	5.2U	5U	5.1U	5U
Pyrene	--	5U	5.1U	5.1U	6.4U	5.9U	5.3U	5.4U	5.1U	5.3U	5U	5.5U	5.3U	5.1U	5.1U	5.1U	5.2U	5U	5.1U	5U
Total PAHs	*100*	**5.3**	**5.1**	**8.5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TPH - GRO/DRO 8015 (mg/l)																				
GRO	--	**0.221**	0.1U	**0.234**	**0.16**	**0.297**	**0.253**	0.1U	**0.133**	**0.113**	0.1U	**0.114**	0.1U	0.1U	**0.143**	0.1U	0.1U	0.1U	0.1U	0.1U
DRO	--	**1.34**	**1.92**	**6.33**	**1.01**	**1.13**	**0.697**	**0.47**	**1.39**	**0.597**	0.21U	**4.55**	0.844	**1.19**	**0.816**	**0.685**	**0.657**	**0.642**	**0.577**	**1.02**
Total GRO + DRO	*5*	**1.561**	**1.92**	**6.564**	**1.17**	**1.427**	**0.950**	**0.47**	**1.52**	**0.710**	ND	**4.664**	0.844	**1.19**	**0.959**	**0.685**	**0.657**	**0.642**	**0.577**	**1.02**
VOCs 624 (ug/l)																				
Benzene	*5*	**12.4**	**2.1**	**7.1**	**6.3**	**13.1**	**15.3**	**3.3**	**8.9**	**7.0**	**0.7**	**3.1**	3.2	**0.5**	**0.5U**	**1.8**	**1.2**	**3.9**	**2.4**	0.5U
Ethylbenzene	*5*	**16.9**	**2.5**	**9.2**	**10.2**	**22.3**	**13.1**	**2.8**	**8.4**	**9.5**	1U	**3.4**	9.5	**2.1**	**11.1**	**5.1**	1U	1U	**1.1**	1U
Methyl Tert Butyl Ether	*70*	**1.2**	1U	**1.3**	**1.4**	1U	**1.4**	**5.5**	**1.1**	1U	**1.3**	1U	1U	1U	1U	1U	**1.8**	**2.6**	1.5	1U
Toluene	*5*	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Xylenes (total)	*5*	**9.3**	**1.3**	**4.3**	**4.3**	**8.6**	**2.3**	**1.4**	**1.4**	**1.9**	1U	**5.6**	**4.6**	1U	**3.1**	**2.0**	1U	**3.7**	**1U**	1U
Total BTEX	*100*	**38.6**	**5.9**	**20.6**	**20.8**	**44**	**30.7**	**7.5**	**18.7**	**18.4**	**0.74**	**12.1**	**17.3**	**2.6**	**14.2**	**8.9**	**1.2**	**7.6**	**3.5**	ND

Notes:
LGAC= Liquid granular activated carbon
PAHs = Polyaromatic hydrocarbons
TPH = Total petroleum hydrocarbons
GRO = Gasoline range organics
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VOCs = Volatile organic compounds
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TABLE 1
Summary of Effluent System Sampling Analytical Results

Former Mobil Marlborough Terminal
279 Maple Street, Marlborough, Massachusetts

Analyte	*Effluent Limits*	INF LGAC																	
		04/19/04	04/21/04	04/23/04	04/27/04	05/07/04	06/15/04	07/15/04	08/12/04	10/01/04	11/03/04	12/28/04	01/18/05	02/16/05	03/18/05	05/27/05	06/20/05	07/21/05	08/23/05	09/27/05
PAHS (SVOCs 8270C) (ug/l)																				
Acenaphthene	--	5U	5.1U	5.1U	5.1U	5.1U	5.3U	5.3U	5.1U	5.3U	5U	5.2U	5.1U	5.6U	5.2U	5.1U	5.2U	5U	5.1U	5.3U
Acenaphthylene	--	5U	5.1U	5.1U	5.1U	5.1U	5.3U	5.3U	5.1U	5.3U	5U	5.2U	5.1U	5.6U	5.2U	5.1U	5.2U	5U	5.1U	5.3U
Anthracene	--	5U	5.1U	5.1U	5.1U	5.1U	5.3U	5.3U	5.1U	5.3U	5U	5.2U	5.1U	5.6U	5.2U	5.1U	5.2U	5U	5.1U	5.3U
Benzo(a)anthracene	--	5U	5.1U	5.1U	5.1U	5.1U	5.3U	5.3U	5.1U	5.3U	5U	5.2U	5.1U	5.6U	5.2U	5.1U	5.2U	5U	5.1U	5.3U
Benzo(a)pyrene	--	5U	5.1U	5.1U	5.1U	5.1U	5.3U	5.3U	5.1U	5.3U	5U	5.2U	5.1U	5.6U	5.2U	5.1U	5.2U	5U	5.1U	5.3U
Benzo(b)fluoranthene	--	5U	5.1U	5.1U	5.1U	5.1U	5.3U	5.3U	5.1U	5.3U	5U	5.2U	5.1U	5.6U	5.2U	5.1U	5.2U	5U	5.1U	5.3U
Benzo(g,h,i)perylene	--	5U	5.1U	5.1U	5.1U	5.1U	5.3U	5.3U	5.1U	5.3U	5U	5.2U	5.1U	5.6U	5.2U	5.1U	5.2U	5U	5.1U	5.3U
Benzo(k)fluoranthene	--	5U	5.1U	5.1U	5.1U	5.1U	5.3U	5.3U	5.1U	5.3U	5U	5.2U	5.1U	5.6U	5.2U	5.1U	5.2U	5U	5.1U	5.3U
Chrysene	--	5U	5.1U	5.1U	5.1U	5.1U	5.3U	5.3U	5.1U	5.3U	5U	5.2U	5.1U	5.6U	5.2U	5.1U	5.2U	5U	5.1U	5.3U
Dibenz(a,h)anthracene	--	5U	5.1U	5.1U	5.1U	5.1U	5.3U	5.3U	5.1U	5.3U	5U	5.2U	5.1U	5.6U	5.2U	5.1U	5.2U	5U	5.1U	5.3U
Fluoranthene	--	5U	5.1U	5.1U	5.1U	5.1U	5.3U	5.3U	5.1U	5.3U	5U	5.2U	5.1U	5.6U	5.2U	5.1U	5.2U	5U	5.1U	5.3U
Fluorene	--	5U	5.1U	5.1U	5.1U	5.1U	5.3U	5.3U	5.1U	5.3U	5U	5.2U	5.1U	5.6U	5.2U	5.1U	5.2U	5U	5.1U	5.3U
Indeno(1,2,3-cd)pyrene	--	5U	5.1U	5.1U	5.1U	5.1U	5.3U	5.3U	5.1U	5.3U	5U	5.2U	5.1U	5.6U	5.2U	5.1U	5.2U	5U	5.1U	5.3U
Naphthalene	*20*	5U	5.1U	5.1U	5.1U	5.1U	5.3U	5.3U	5.1U	5.3U	5U	5.2U	5.1U	5.6U	5.2U	5.1U	5.2U	5U	5.1U	5.3U
Phenanthrene	--	5U	5.1U	5.1U	5.1U	5.1U	5.3U	5.3U	5.1U	5.3U	5U	5.2U	5.1U	5.6U	5.2U	5.1U	5.2U	5U	5.1U	5.3U
Pyrene	--	5U	5.1U	5.1U	5.1U	5.1U	5.3U	5.3U	5.1U	5.3U	5U	5.2U	5.1U	5.6U	5.2U	5.1U	5.2U	5U	5.1U	5.3U
Total PAHs	*100*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TPH - GRO/DRO 8015 (mg/l)																				
GRO	--	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
DRO	--	**0.892**	**1.53**	**1.75**	**0.614**	**0.789**	**0.395**	**0.377**	**0.985**	**1.1**	**0.290**	**0.574**	**0.757**	**0.599**	**0.426**	**0.435**	**0.545**	**0.527**	**0.465**	**0.752**
Total GRO + DRO	*5*	**0.892**	**1.53**	**1.75**	**0.614**	**0.789**	**0.395**	**0.377**	**0.985**	**1.1**	**0.290**	**0.574**	**0.757**	**0.599**	**0.426**	**0.435**	**0.545**	**0.527**	**0.465**	**0.752**
VOCs 624 (ug/l)																				
Benzene	*5*	**1.2**	**1.4**	**1**	**0.56**	**0.97**	**1.3**	0.5U	0.5U	**1.8**	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	**0.73**	0.5U	0.5U
Ethylbenzene	*5*	**1.4**	**1.8**	**1.1**	1U	**1.4**	**1.1**	1U	1U	**1.7**	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Methyl Tert Butyl Ether	*70*	1U	1U	1U	1U	1U	1U	**1.7**	1U	1U	1U	1U	1U	1U	1U	1U	**1.6**	**1.2**	1U	1U
Toluene	*5*	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Xylenes (total)	*5*	**1.2**	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Total BTEX	*100*	**3.8**	**3.2**	**2.1**	**0.56**	**2.37**	**2.4**	ND	ND	**3.5**	ND	ND	ND	ND	ND	ND	ND	**0.73**	ND	ND

Notes:
LGAC= Liquid granular activated carbon
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TABLE 1
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Former Mobil Marlborough Terminal
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Analyte	*Effluent Limits*	PRIM LT LGAC																		
		04/19/04	04/21/04	04/23/04	04/27/04	05/07/04	06/15/04	07/15/04	08/12/04	10/01/04	11/03/04	12/28/04	01/18/05	02/16/05	03/18/05	05/27/05	06/20/05	07/21/05	08/23/05	09/27/05
PAHS (SVOCs 8270C) (ug/l)																				
Acenaphthene	--	5U	5.1U	5.3U	5.1U	5U	5.1U	5.3U	5U	5.1U	5.1U	5.2U	5.1U	5.1U	5U	5.1U	5.3U	5U	5.1U	5.3U
Acenaphthylene	--	5U	5.1U	5.3U	5.1U	5U	5.1U	5.3U	5U	5.1U	5.1U	5.2U	5.1U	5.1U	5U	5.1U	5.3U	5U	5.1U	5.3U
Anthracene	--	5U	5.1U	5.3U	5.1U	5U	5.1U	5.3U	5U	5.1U	5.1U	5.2U	5.1U	5.1U	5U	5.1U	5.3U	5U	5.1U	5.3U
Benzo(a)anthracene	--	5U	5.1U	5.3U	5.1U	5U	5.1U	5.3U	5U	5.1U	5.1U	5.2U	5.1U	5.1U	5U	5.1U	5.3U	5U	5.1U	5.3U
Benzo(a)pyrene	--	5U	5.1U	5.3U	5.1U	5U	5.1U	5.3U	5U	5.1U	5.1U	5.2U	5.1U	5.1U	5U	5.1U	5.3U	5U	5.1U	5.3U
Benzo(b)fluoranthene	--	5U	5.1U	5.3U	5.1U	5U	5.1U	5.3U	5U	5.1U	5.1U	5.2U	5.1U	5.1U	5U	5.1U	5.3U	5U	5.1U	5.3U
Benzo(g,h,i)perylene	--	5U	5.1U	5.3U	5.1U	5U	5.1U	5.3U	5U	5.1U	5.1U	5.2U	5.1U	5.1U	5U	5.1U	5.3U	5U	5.1U	5.3U
Benzo(k)fluoranthene	--	5U	5.1U	5.3U	5.1U	5U	5.1U	5.3U	5U	5.1U	5.1U	5.2U	5.1U	5.1U	5U	5.1U	5.3U	5U	5.1U	5.3U
Chrysene	--	5U	5.1U	5.3U	5.1U	5U	5.1U	5.3U	5U	5.1U	5.1U	5.2U	5.1U	5.1U	5U	5.1U	5.3U	5U	5.1U	5.3U
Dibenz(a,h)anthracene	--	5U	5.1U	5.3U	5.1U	5U	5.1U	5.3U	5U	5.1U	5.1U	5.2U	5.1U	5.1U	5U	5.1U	5.3U	5U	5.1U	5.3U
Fluoranthene	--	5U	5.1U	5.3U	5.1U	5U	5.1U	5.3U	5U	5.1U	5.1U	5.2U	5.1U	5.1U	5U	5.1U	5.3U	5U	5.1U	5.3U
Fluorene	--	5U	5.1U	5.3U	5.1U	5U	5.1U	5.3U	5U	5.1U	5.1U	5.2U	5.1U	5.1U	5U	5.1U	5.3U	5U	5.1U	5.3U
Indeno(1,2,3-cd)pyrene	--	5U	5.1U	5.3U	5.1U	5U	5.1U	5.3U	5U	5.1U	5.1U	5.2U	5.1U	5.1U	5U	5.1U	5.3U	5U	5.1U	5.3U
Naphthalene	*20*	5U	5.1U	5.3U	5.1U	5U	5.1U	5.3U	5U	5.1U	5.1U	5.2U	5.1U	5.1U	5U	5.1U	5.3U	5U	5.1U	5.3U
Phenanthrene	--	5U	5.1U	5.3U	5.1U	5U	5.1U	5.3U	5U	5.1U	5.1U	5.2U	5.1U	5.1U	5U	5.1U	5.3U	5U	5.1U	5.3U
Pyrene	--	5U	5.1U	5.3U	5.1U	5U	5.1U	5.3U	5U	5.1U	5.1U	5.2U	5.1U	5.1U	5U	5.1U	5.3U	5U	5.1U	5.3U
Total PAHs	*100*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TPH - GRO/DRO 8015 (mg/l)																				
GRO	--	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
DRO	--	**0.551**	**1.06**	**0.844**	**0.426**	**0.478**	**0.337**	0.21U	0.2U	**0.229**	0.2U	0.22U	0.21U	0.21U	0.2U	0.2U	0.21U	0.2U	0.2U	0.21U
Total GRO + DRO	*5*	**0.551**	**1.06**	**0.844**	**0.426**	**0.478**	**0.337**	ND	ND	**0.229**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOCs 624 (ug/l)																				
Benzene	*5*	0.5U	0.5U	0.5U	0.5U	0.5U	**0.50**	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Ethylbenzene	*5*	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Methyl Tert Butyl Ether	*70*	1U	1U	1U	1U	1U	1U	**1.3**	1U	1U	1U	1U	1U	1U	1U	1U	**1.2**	**1.6**	1U	1U
Toluene	*5*	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Xylenes (total)	*5*	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Total BTEX	*100*	ND	ND	ND	ND	ND	**0.5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
LGAC= Liquid granular activated carbon
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Analyte	*Effluent Limits*	PRIM RT LGAC																	
		04/19/04	04/21/04	04/23/04	04/27/04	05/07/04	06/15/04	07/15/04	08/12/04	10/01/04	11/03/04	12/28/04	01/18/05	02/16/05	03/18/05	05/27/05	06/20/05	07/21/05	08/23/05	09/27/05
PAHS (SVOCs 8270C) (ug/l)																				
Acenaphthene	--	5U	5U	5.1U	5.3U	5.1U	5.6U	5.0U	5.1U	5.3U	5U	5.3U	5.1U	5.5U	5U	5.1U	5.2U	5U	5.1U	5.4U
Acenaphthylene	--	5U	5U	5.1U	5.3U	5.1U	5.6U	5.0U	5.1U	5.3U	5U	5.3U	5.1U	5.5U	5U	5.1U	5.2U	5U	5.1U	5.4U
Anthracene	--	5U	5U	5.1U	5.3U	5.1U	5.6U	5.0U	5.1U	5.3U	5U	5.3U	5.1U	5.5U	5U	5.1U	5.2U	5U	5.1U	5.4U
Benzo(a)anthracene	--	5U	5U	5.1U	5.3U	5.1U	5.6U	5.0U	5.1U	5.3U	5U	5.3U	5.1U	5.5U	5U	5.1U	5.2U	5U	5.1U	5.4U
Benzo(a)pyrene	--	5U	5U	5.1U	5.3U	5.1U	5.6U	5.0U	5.1U	5.3U	5U	5.3U	5.1U	5.5U	5U	5.1U	5.2U	5U	5.1U	5.4U
Benzo(b)fluoranthene	--	5U	5U	5.1U	5.3U	5.1U	5.6U	5.0U	5.1U	5.3U	5U	5.3U	5.1U	5.5U	5U	5.1U	5.2U	5U	5.1U	5.4U
Benzo(g,h,i)perylene	--	5U	5U	5.1U	5.3U	5.1U	5.6U	5.0U	5.1U	5.3U	5U	5.3U	5.1U	5.5U	5U	5.1U	5.2U	5U	5.1U	5.4U
Benzo(k)fluoranthene	--	5U	5U	5.1U	5.3U	5.1U	5.6U	5.0U	5.1U	5.3U	5U	5.3U	5.1U	5.5U	5U	5.1U	5.2U	5U	5.1U	5.4U
Chrysene	--	5U	5U	5.1U	5.3U	5.1U	5.6U	5.0U	5.1U	5.3U	5U	5.3U	5.1U	5.5U	5U	5.1U	5.2U	5U	5.1U	5.4U
Dibenz(a,h)anthracene	--	5U	5U	5.1U	5.3U	5.1U	5.6U	5.0U	5.1U	5.3U	5U	5.3U	5.1U	5.5U	5U	5.1U	5.2U	5U	5.1U	5.4U
Fluoranthene	--	5U	5U	5.1U	5.3U	5.1U	5.6U	5.0U	5.1U	5.3U	5U	5.3U	5.1U	5.5U	5U	5.1U	5.2U	5U	5.1U	5.4U
Fluorene	--	5U	5U	5.1U	5.3U	5.1U	5.6U	5.0U	5.1U	5.3U	5U	5.3U	5.1U	5.5U	5U	5.1U	5.2U	5U	5.1U	5.4U
Indeno(1,2,3-cd)pyrene	--	5U	5U	5.1U	5.3U	5.1U	5.6U	5.0U	5.1U	5.3U	5U	5.3U	5.1U	5.5U	5U	5.1U	5.2U	5U	5.1U	5.4U
Naphthalene	*20*	5U	5U	5.1U	5.3U	5.1U	5.6U	5.0U	5.1U	5.3U	5U	5.3U	5.1U	5.5U	5U	5.1U	5.2U	5U	5.1U	5.4U
Phenanthrene	--	5U	5U	5.1U	5.3U	5.1U	5.6U	5.0U	5.1U	5.3U	5U	5.3U	5.1U	5.5U	5U	5.1U	5.2U	5U	5.1U	5.4U
Pyrene	--	5U	5U	5.1U	5.3U	5.1U	5.6U	5.0U	5.1U	5.3U	5U	5.3U	5.1U	5.5U	5U	5.1U	5.2U	5U	5.1U	5.4U
Total PAHs	*100*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TPH - GRO/DRO 8015 (mg/l)																				
GRO	--	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
DRO	--	**0.601**	**1.1**	**0.939**	**0.377**	**0.541**	**0.350**	0.21U	0.2U	**0.247**	0.2U	0.2U	0.1U	0.22U	0.2U	0.21U	0.22U	0.2U	0.2U	0.2U
Total GRO + DRO	*5*	**0.601**	**1.1**	**0.939**	**0.377**	**0.541**	**0.350**	ND	ND	**0.247**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOCs 624 (ug/l)																				
Benzene	*5*	0.5U	0.5U	0.5U	0.5U	0.5U	**0.63**	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Ethylbenzene	*5*	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Methyl Tert Butyl Ether	*70*	1U	1U	1U	1U	1U	1U	**1.4**	1U	1U	1U	1U	1U	1U	1U	1U	1U	**1.6**	1U	1U
Toluene	*5*	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Xylenes (total)	*5*	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	**1.0**
Total BTEX	*100*	ND	ND	ND	ND	ND	**0.63**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.0**

Notes:
LGAC= Liquid granular activated carbon
PAHs = Polyaromatic hydrocarbons
TPH = Total petroleum hydrocarbons
GRO = Gasoline range organics
DRO = Diesel range organics
VOCs = Volatile organic compounds
U = Not detected preceeded by the laboratory reporting limit
ND = Not detected
-- = No Effluent Limit provided
LGAC change outs were performed on August 4, 2004,
December 17, 2004, May 19, 2005, and August 18, 2005

TABLE 1
Summary of Effluent System Sampling Analytical Results

Former Mobil Marlborough Terminal
279 Maple Street, Marlborough, Massachusetts

Analyte	*Effluent Limits*	SEC LT LGAC																		
		04/19/04	04/21/04	04/23/04	04/27/04	05/07/04	06/15/04	07/15/04	08/12/04	10/01/04	11/03/04	12/28/04	01/18/05	02/16/05	03/18/05	05/27/05	06/20/05	07/21/05	08/23/05	09/27/05
PAHS (SVOCs 8270C) (ug/l)																				
Acenaphthene	–	5U	5.1U	5.1U	5.1U	5.1U	5.1U	5.3U	5U	5.3U	5U	5.3U	5.1U	5.5U	5.1U	5.1U	5.2U	5U	5U	5.1U
Acenaphthylene	–	5U	5.1U	5.1U	5.1U	5.1U	5.1U	5.3U	5U	5.3U	5U	5.3U	5.1U	5.5U	5.1U	5.1U	5.2U	5U	5U	5.1U
Anthracene	–	5U	5.1U	5.1U	5.1U	5.1U	5.1U	5.3U	5U	5.3U	5U	5.3U	5.1U	5.5U	5.1U	5.1U	5.2U	5U	5U	5.1U
Benzo(a)anthracene	–	5U	5.1U	5.1U	5.1U	5.1U	5.1U	5.3U	5U	5.3U	5U	5.3U	5.1U	5.5U	5.1U	5.1U	5.2U	5U	5U	5.1U
Benzo(a)pyrene	–	5U	5.1U	5.1U	5.1U	5.1U	5.1U	5.3U	5U	5.3U	5U	5.3U	5.1U	5.5U	5.1U	5.1U	5.2U	5U	5U	5.1U
Benzo(b)fluoranthene	–	5U	5.1U	5.1U	5.1U	5.1U	5.1U	5.3U	5U	5.3U	5U	5.3U	5.1U	5.5U	5.1U	5.1U	5.2U	5U	5U	5.1U
Benzo(g,h,i)perylene	–	5U	5.1U	5.1U	5.1U	5.1U	5.1U	5.3U	5U	5.3U	5U	5.3U	5.1U	5.5U	5.1U	5.1U	5.2U	5U	5U	5.1U
Benzo(k)fluoranthene	–	5U	5.1U	5.1U	5.1U	5.1U	5.1U	5.3U	5U	5.3U	5U	5.3U	5.1U	5.5U	5.1U	5.1U	5.2U	5U	5U	5.1U
Chrysene	–	5U	5.1U	5.1U	5.1U	5.1U	5.1U	5.3U	5U	5.3U	5U	5.3U	5.1U	5.5U	5.1U	5.1U	5.2U	5U	5U	5.1U
Dibenz(a,h)anthracene	–	5U	5.1U	5.1U	5.1U	5.1U	5.1U	5.3U	5U	5.3U	5U	5.3U	5.1U	5.5U	5.1U	5.1U	5.2U	5U	5U	5.1U
Fluoranthene	–	5U	5.1U	5.1U	5.1U	5.1U	5.1U	5.3U	5U	5.3U	5U	5.3U	5.1U	5.5U	5.1U	5.1U	5.2U	5U	5U	5.1U
Fluorene	–	5U	5.1U	5.1U	5.1U	5.1U	5.1U	5.3U	5U	5.3U	5U	5.3U	5.1U	5.5U	5.1U	5.1U	5.2U	5U	5U	5.1U
Indeno(1,2,3-cd)pyrene	–	5U	5.1U	5.1U	5.1U	5.1U	5.1U	5.3U	5U	5.3U	5U	5.3U	5.1U	5.5U	5.1U	5.1U	5.2U	5U	5U	5.1U
Naphthalene	***20***	5U	5.1U	5.1U	5.1U	5.1U	5.1U	5.3U	5U	5.3U	5U	5.3U	5.1U	5.5U	5.1U	5.1U	5.2U	5U	5U	5.1U
Phenanthrene	–	5U	5.1U	5.1U	5.1U	5.1U	5.1U	5.3U	5U	5.3U	5U	5.3U	5.1U	5.5U	5.1U	5.1U	5.2U	5U	5U	5.1U
Pyrene	–	5U	5.1U	5.1U	5.1U	5.1U	5.1U	5.3U	5U	5.3U	5U	5.3U	5.1U	5.5U	5.1U	5.1U	5.2U	5U	5U	5.1U
Total PAHs	***100***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TPH - GRO/DRO 8015 (mg/l)																				
GRO	–	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
DRO	–	0.2U	**0.608**	**0.268**	0.2U	**0.219**	**0.202**	0.2U	0.2U	**0.22**	0.2U	0.22U	0.2U	0.22U	0.2U	0.21U	0.21U	0.2U	0.2U	0.21U
Total GRO + DRO	*5*	ND	**0.608**	**0.268**	ND	**0.219**	**0.202**	ND	ND	**0.22**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOCs 624 (ug/l)																				
Benzene	*5*	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Ethylbenzene	*5*	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Methyl Tert Butyl Ether	***70***	1U	1U	1U	1U	1U	1U	**1.0**	1U	1U	1U	1U	1U	1U	1U	1U	1U	**2.1**	1U	1U
Toluene	*5*	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Xylenes (total)	*5*	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Total BTEX	***100***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
LGAC= Liquid granular activated carbon
PAHs = Polyaromatic hydrocarbons
TPH = Total petroleum hydrocarbons
GRO = Gasoline range organics
DRO = Diesel range organics
VOCs = Volatile organic compounds
U = Not detected preceeded by the laboratory reporting limit
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LGAC change outs were performed on August 4, 2004,
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TABLE 1
Summary of Effluent System Sampling Analytical Results

Former Mobil Marlborough Terminal
279 Maple Street, Marlborough, Massachusetts

Analyte	*Effluent Limits*	SEC RT LGAC																	
		04/19/04	04/21/04	04/23/04	04/27/04	05/07/04	06/15/04	07/15/04	08/12/04	10/01/04	11/03/04	12/28/04	01/18/05	02/16/05	03/18/05	05/27/05	06/20/05	07/21/05	08/23/05	09/27/05
PAHs (SVOCs 8270C) (ug/l)																				
Acenaphthene	--	5U	5.1U	5.1U	5U	5U	5.1U	5.3U	5U	5.3U	5U	5U	5U	5.4U	5U	5.1U	5U	5U	5U	5.2U
Acenaphthylene	--	5U	5.1U	5.1U	5U	5U	5.1U	5.3U	5U	5.3U	5U	5U	5U	5.4U	5U	5.1U	5U	5U	5U	5.2U
Anthracene	--	5U	5.1U	5.1U	5U	5U	5.1U	5.3U	5U	5.3U	5U	5U	5U	5.4U	5U	5.1U	5U	5U	5U	5.2U
Benzo(a)anthracene	--	5U	5.1U	5.1U	5U	5U	5.1U	5.3U	5U	5.3U	5U	5U	5U	5.4U	5U	5.1U	5U	5U	5U	5.2U
Benzo(a)pyrene	--	5U	5.1U	5.1U	5U	5U	5.1U	5.3U	5U	5.3U	5U	5U	5U	5.4U	5U	5.1U	5U	5U	5U	5.2U
Benzo(b)fluoranthene	--	5U	5.1U	5.1U	5U	5U	5.1U	5.3U	5U	5.3U	5U	5U	5U	5.4U	5U	5.1U	5U	5U	5U	5.2U
Benzo(g,h,i)perylene	--	5U	5.1U	5.1U	5U	5U	5.1U	5.3U	5U	5.3U	5U	5U	5U	5.4U	5U	5.1U	5U	5U	5U	5.2U
Benzo(k)fluoranthene	--	5U	5.1U	5.1U	5U	5U	5.1U	5.3U	5U	5.3U	5U	5U	5U	5.4U	5U	5.1U	5U	5U	5U	5.2U
Chrysene	--	5U	5.1U	5.1U	5U	5U	5.1U	5.3U	5U	5.3U	5U	5U	5U	5.4U	5U	5.1U	5U	5U	5U	5.2U
Dibenz(a,h)anthracene	--	5U	5.1U	5.1U	5U	5U	5.1U	5.3U	5U	5.3U	5U	5U	5U	5.4U	5U	5.1U	5U	5U	5U	5.2U
Fluoranthene	--	5U	5.1U	5.1U	5U	5U	5.1U	5.3U	5U	5.3U	5U	5U	5U	5.4U	5U	5.1U	5U	5U	5U	5.2U
Fluorene	--	5U	5.1U	5.1U	5U	5U	5.1U	5.3U	5U	5.3U	5U	5U	5U	5.4U	5U	5.1U	5U	5U	5U	5.2U
Indeno(1,2,3-cd)pyrene	--	5U	5.1U	5.1U	5U	5U	5.1U	5.3U	5U	5.3U	5U	5U	5U	5.4U	5U	5.1U	5U	5U	5U	5.2U
Naphthalene	*20*	5U	5.1U	5.1U	5U	5U	5.1U	5.3U	5U	5.3U	5U	5U	5U	5.4U	5U	5.1U	5U	5U	5U	5.2U
Phenanthrene	--	5U	5.1U	5.1U	5U	5U	5.1U	5.3U	5U	5.3U	5U	5U	5U	5.4U	5U	5.1U	5U	5U	5U	5.2U
Pyrene	--	5U	5.1U	5.1U	5U	5U	5.1U	5.3U	5U	5.3U	5U	5U	5U	5.4U	5U	5.1U	5U	5U	5U	5.2U
Total PAHs	*100*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TPH - GRO/DRO 8015 (mg/l)																				
GRO	--	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
DRO	--	**0.429**	**0.794**	**0.28**	**0.274**	**0.292**	**0.226**	0.2U	0.2U	0.21U	0.2U	0.22U	0.2U	0.21U	0.21U	0.2U	0.2U	0.2U	0.2U	0.21U
Total GRO + DRO	*5*	**0.429**	**0.794**	**0.28**	**0.274**	**0.292**	**0.226**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOCs 624 (ug/l)																				
Benzene	*5*	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Ethylbenzene	*5*	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Methyl Tert Butyl Ether	*70*	1U	1U	1U	1U	1U	1U	**1.1**	1U	1U	1U	1U	1U	1U	1U	1U	1U	**2.3**	1U	1U
Toluene	*5*	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Xylenes (total)	*5*	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Total BTEX	*100*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
LGAC= Liquid granular activated carbon
PAHs = Polyaromatic hydrocarbons
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LGAC change outs were performed on August 4, 2004,
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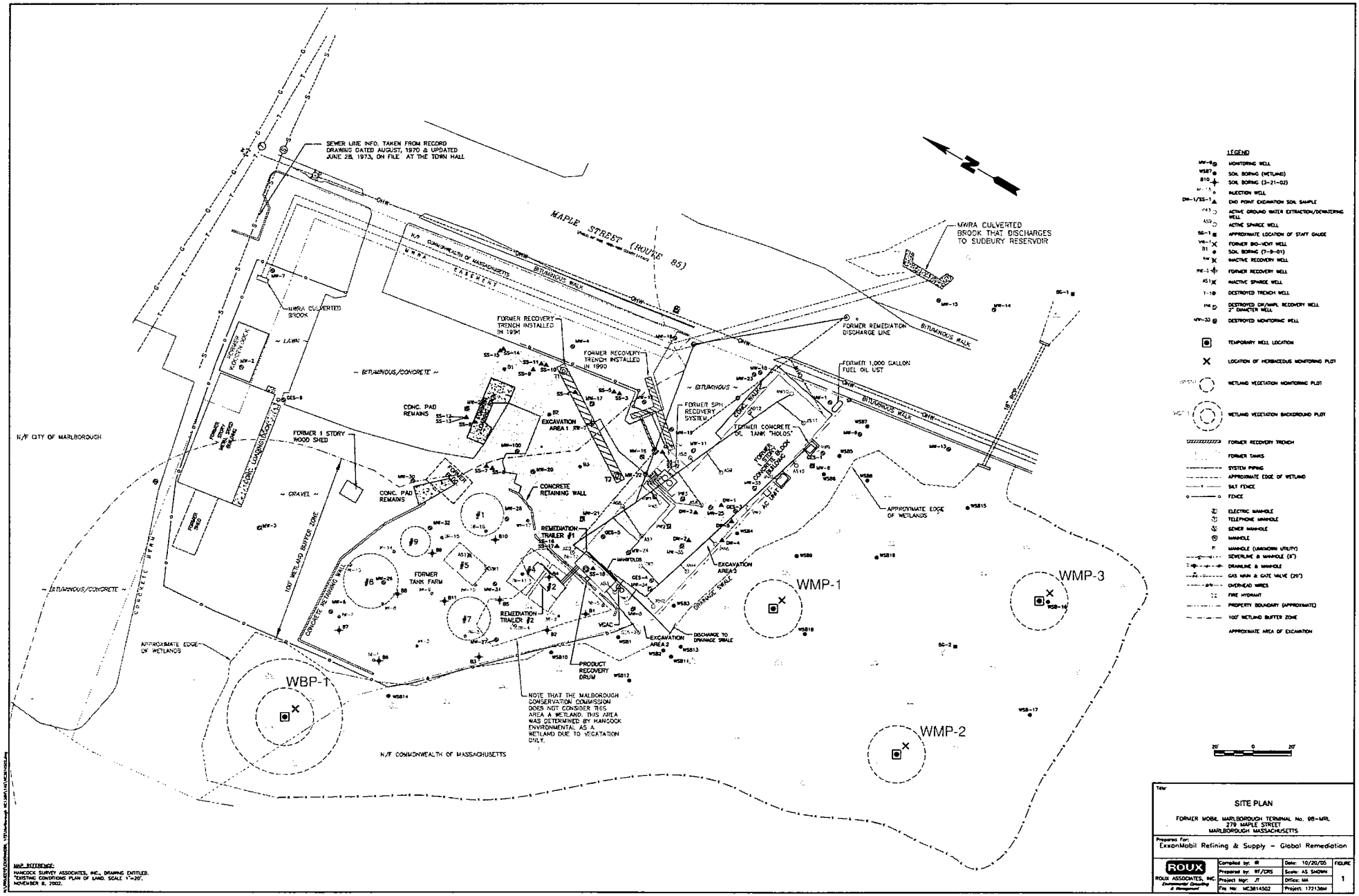


Title:

SITE PLAN

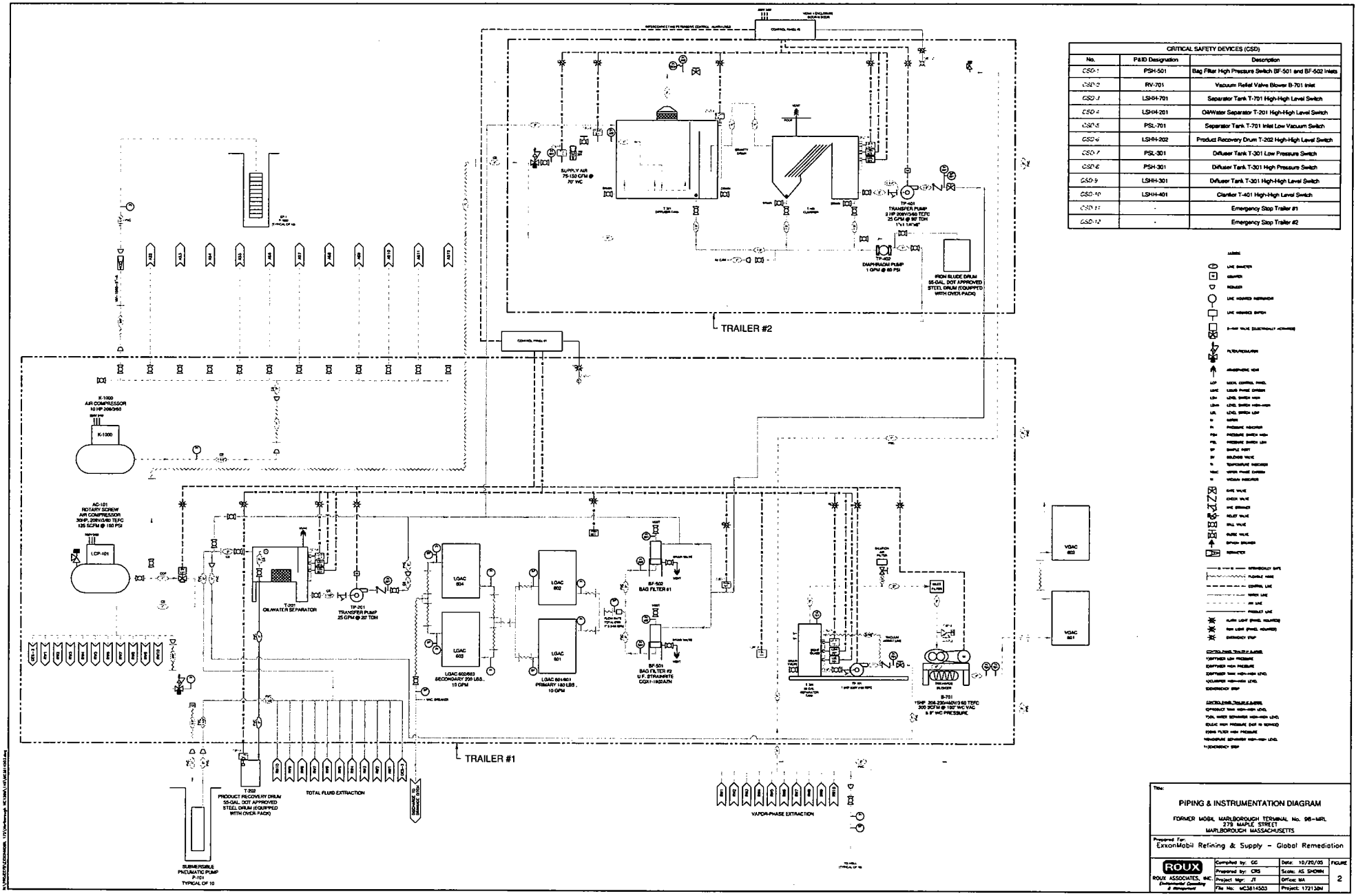
FORMER MOBIL MARLBOROUGH TERMINAL No. 98-MRL
279 MAPLE STREET
MARLBOROUGH MASSACHUSETTS

Prepared for:
ExxonMobil Refining & Supply - Global Remediation

ROUX ASSOCIATES, INC. Environmental Consulting & Management	Compiled by: @	Date: 10/20/05	FIGURE
	Prepared by: RF/CRS	Scale: AS SHOWN	1
	Project Mgr: JT	Office: MA	
	File No: MC3814502	Project: 172136M	

MAP REFERENCE:
HANCOCK SURVEY ASSOCIATES, INC., DRAWING ENTITLED "EXISTING CONDITIONS PLAN OF LAND, SCALE 1"=20', NOVEMBER 8, 2002.

N:\MARLBOROUGH\MC3814502\MC3814502.dwg



CRITICAL SAFETY DEVICES (CSD)		
No.	P&ID Designation	Description
CSD-1	PSH-501	Bag Filter High Pressure Switch BF-501 and BF-502 Inlets
CSD-2	RV-701	Vacuum Relief Valve Blower B-701 Inlet
CSD-3	LSHH-701	Separator Tank T-701 High-High Level Switch
CSD-4	LSHH-201	Oil/Water Separator T-201 High-High Level Switch
CSD-5	PSL-701	Separator Tank T-701 Inlet Low Vacuum Switch
CSD-6	LSHH-202	Product Recovery Drum T-202 High-High Level Switch
CSD-7	PSL-301	Diffuser Tank T-301 Low Pressure Switch
CSD-8	PSH-301	Diffuser Tank T-301 High Pressure Switch
CSD-9	LSHH-301	Diffuser Tank T-301 High-High Level Switch
CSD-10	LSHH-401	Clarifier T-401 High-High Level Switch
CSD-11	-	Emergency Stop Trailer #1
CSD-12	-	Emergency Stop Trailer #2

Title:

PIPING & INSTRUMENTATION DIAGRAM

FORMER MOBIL MARLBOROUGH TERMINAL No. 98-MRL
279 MAPLE STREET
MARLBOROUGH MASSACHUSETTS

Prepared For:
ExxonMobil Refining & Supply - Global Remediation

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: GC		Date: 10/20/05	FIGURE
Prepared by: CRS		Scale: AS SHOWN	
Project Mgr: JT		Office: MA	2
File No. wo3814503		Project: 17213M	

GP MAG-9/10/24

Ian Reed
<ireed@rouxinc.com>
10/21/2005 12:54 PM

To GeneralPermits NPDES/R1/USEPA/US@EPA
cc "Jerry Tolosko (E-mail)" <jtolosko@rouxinc.com>, "Michael A. Lamarre (E-mail)" <michael.a.lamarre@exxonmobil.com>, "'Tina Breuer' (E-mail)" <tbreuer@rouxinc.com>
bcc
Subject NOI for Temporary ID#MA-031-010

To Whom in May Concern:
Attached is the completed NOI form for the Remediation General Permit for the Former Mobil Marlborough Terminal located at 279 Maple Street, Marlborough, MA.

Please let me know if you have any questions or concerns.

Thanks

-Ian

Ian Reed
Senior Hydrogeologist
ROUX Associates, Inc.
67 South Bedford Street, Suite 101W
Burlington, MA 01803
p: 781.270.6600
f: 781.270.9066

172138M.145.NOI.pdf 172138M.145.Att.Lab Report.pdf

New England ACCUTEST Laboratories

10/20/05

Technical Report for

Roux Associates

Exxon:98-MRL Former Terminal, Maple St., Marlborough, MA

PO#4505981441 WBS#08

Accutest Job Number: M51119

Sampling Date: 09/27/05

Report to:

Roux Associates

ireed@rouxinc.com

ATTN: Ian Reed

Total number of pages in report: 32

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Tand
Lab Director

Certifications: MA (M-MA136) CT (PH-0109) NH (250204) RI (00071) ME (MA136) FL (E87579) NY (23346) NJ (MA926) NAVY USACE

Sections: 1 2 3 4

Table of Contents

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Sample Summary

Roux Associates

Job No: M51119

Exxon:98-MRL Former Terminal, Maple St., Marlborough, MA
Project No: PO#4505981441 WBS#08

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
M51119-1	09/27/05	09:00	KG	09/27/05	AQ	Ground Water	SEC.RT LGAC
M51119-2	09/27/05	09:10	KG	09/27/05	AQ	Ground Water	SEC.LT LGAC
M51119-3	09/27/05	09:20	KG	09/27/05	AQ	Ground Water	PRIM. RT LGAC
M51119-4	09/27/05	09:30	KG	09/27/05	AQ	Ground Water	PRIM. LT LGAC
M51119-5	09/27/05	09:40	KG	09/27/05	AQ	Ground Water	INF LGAC
M51119-6	09/27/05	09:50	KG	09/27/05	AQ	Ground Water	INF DIFF
M51119-7	09/27/05	00:00	KG	09/27/05	AQ	Trip Blank Water	TRIP BLANK

ACCUTEST Laboratories

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SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	Roux Associates	Job No	M51119
Site:	Exxon:98-MRL Former Terminal, Maple St., Marlborough, MA	Report Date	10/11/2005 3:53:56 PM

6 Samples and 1 Trip Blank were collected on 09/27/2005 and were received at Accutest on 09/27/2005 properly preserved, at 5.2 Deg. C and intact. These Samples received an Accutest job number of M51119. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method EPA 624

Matrix AQ Batch ID: MSD2562

- All samples were analyzed within the recommended method holding time.
- Sample(s) M51063-2MS, M51063-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- OnlyBTX and MTBE requested.

Extractables by GCMS By Method SW846 8270C

Matrix AQ Batch ID: OP9713

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) M51126-1MS, M51126-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for Benzo(g,h,i)perylene are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Sample(s) OP9713-BS have surrogates outside control limits. Refer to Blank Spike Duplicate.
- OP9713-BS/OP9713-BSD for Chrysene: Outside control limits. Associated samples are non-detect for this compound.
- Initial calibration check standards (batch MSE1238) for Benzo(k)fluoranthene is employed quadratic regression. The calibration of this compound meets method requirement.

Volatiles by GC By Method SW846 8015

Matrix AQ Batch ID: GQR1758

- All samples were analyzed within the recommended method holding time.
- Sample(s) M51094-2MS, M51094-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Extractables by GC By Method SW846-8015

Matrix AQ	Batch ID: OP9717

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M51182-1MS, M51182-1MSD were used as the QC samples indicated.

Note: Compounds whose QC limits are outside MCP criteria are designated by the lab as "Difficult". QC criteria for a "Difficult" compound may meet Accutest in-house generated QC criteria but exceed MCP criteria (compounds exceeding Accutest QC criteria are flagged on the QC summary). Refer to the QC summary pages.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M51119).

Report of Analysis

Client Sample ID:	SEC.RT LGAC		
Lab Sample ID:	M51119-1	Date Sampled:	09/27/05
Matrix:	AQ - Ground Water	Date Received:	09/27/05
Method:	EPA 624	Percent Solids:	n/a
Project:	Exxon:98-MRL Former Terminal, Maple St., Marlborough, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D45372.D	1	09/30/05	AT	n/a	n/a	MSD2562
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	103%		76-138%
2037-26-5	Toluene-D8 (SUR)	91%		86-114%
460-00-4	4-Bromofluorobenzene (SUR)	106%		76-114%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEC.RT LGAC		
Lab Sample ID:	M51119-1	Date Sampled:	09/27/05
Matrix:	AQ - Ground Water	Date Received:	09/27/05
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	Exxon:98-MRL Former Terminal, Maple St., Marlborough, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E24531.D	1	09/30/05	PN	09/28/05	OP9713	MSE1282
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	5.2	ug/l	
208-96-8	Acenaphthylene	ND	5.2	ug/l	
120-12-7	Anthracene	ND	5.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.2	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.2	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.2	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.2	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.2	ug/l	
218-01-9	Chrysene	ND	5.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.2	ug/l	
206-44-0	Fluoranthene	ND	5.2	ug/l	
86-73-7	Fluorene	ND	5.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.2	ug/l	
91-20-3	Naphthalene	ND	5.2	ug/l	
85-01-8	Phenanthrene	ND	5.2	ug/l	
129-00-0	Pyrene	ND	5.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	64%		32-120%
321-60-8	2-Fluorobiphenyl	72%		32-120%
1718-51-0	Terphenyl-d14	70%		33-123%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEC.RT LGAC		
Lab Sample ID:	M51119-1	Date Sampled:	09/27/05
Matrix:	AQ - Ground Water	Date Received:	09/27/05
Method:	SW846 8015	Percent Solids:	n/a
Project:	Exxon:98-MRL Former Terminal, Maple St., Marlborough, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR33700.D	1	09/27/05	AP	n/a	n/a	GQR1758
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
	TPH-GRO (VOA)	ND	0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
615-59-8	2,5-Dibromotoluene	82%		50-138%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEC.RT LGAC		
Lab Sample ID:	M51119-1	Date Sampled:	09/27/05
Matrix:	AQ - Ground Water	Date Received:	09/27/05
Method:	SW846-8015 SW846 3510C	Percent Solids:	n/a
Project:	Exxon:98-MRL Former Terminal, Maple St., Marlborough, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH38988.D	1	10/02/05	SL	09/28/05	OP9717	GGH3017
Run #2							

	Initial Volume	Final Volume
Run #1	960 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (Semi-VOA)	ND	0.21	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	105%		39-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEC.LT LGAC		
Lab Sample ID:	M51119-2	Date Sampled:	09/27/05
Matrix:	AQ - Ground Water	Date Received:	09/27/05
Method:	EPA 624	Percent Solids:	n/a
Project:	Exxon:98-MRL Former Terminal, Maple St., Marlborough, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D45373.D	1	09/30/05	AT	n/a	n/a	MSD2562
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	108%		76-138%
2037-26-5	Toluene-D8 (SUR)	91%		86-114%
460-00-4	4-Bromofluorobenzene (SUR)	111%		76-114%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEC.LT LGAC		
Lab Sample ID:	M51119-2	Date Sampled:	09/27/05
Matrix:	AQ - Ground Water	Date Received:	09/27/05
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	Exxon:98-MRL Former Terminal, Maple St., Marlborough, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E24532.D	1	09/30/05	PN	09/28/05	OP9713	MSE1282
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	5.1	ug/l	
208-96-8	Acenaphthylene	ND	5.1	ug/l	
120-12-7	Anthracene	ND	5.1	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.1	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.1	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.1	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.1	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.1	ug/l	
218-01-9	Chrysene	ND	5.1	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.1	ug/l	
206-44-0	Fluoranthene	ND	5.1	ug/l	
86-73-7	Fluorene	ND	5.1	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.1	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.1	ug/l	
91-20-3	Naphthalene	ND	5.1	ug/l	
85-01-8	Phenanthrene	ND	5.1	ug/l	
129-00-0	Pyrene	ND	5.1	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	66%		32-120%
321-60-8	2-Fluorobiphenyl	70%		32-120%
1718-51-0	Terphenyl-d14	79%		33-123%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEC.LT LGAC		
Lab Sample ID:	M51119-2	Date Sampled:	09/27/05
Matrix:	AQ - Ground Water	Date Received:	09/27/05
Method:	SW846 8015	Percent Solids:	n/a
Project:	Exxon:98-MRL Former Terminal, Maple St., Marlborough, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR33701.D	1	09/27/05	AP	n/a	n/a	GQR1758
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
	TPH-GRO (VOA)	ND	0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
615-59-8	2,5-Dibromotoluene	77%		50-138%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEC.LT LGAC		
Lab Sample ID:	M51119-2	Date Sampled:	09/27/05
Matrix:	AQ - Ground Water	Date Received:	09/27/05
Method:	SW846-8015 SW846 3510C	Percent Solids:	n/a
Project:	Exxon:98-MRL Former Terminal, Maple St., Marlborough, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH38989.D	1	10/02/05	SL	09/28/05	OP9717	GGH3017
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (Semi-VOA)	ND	0.21	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	107%		39-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PRIM. RT LGAC		
Lab Sample ID:	M51119-3	Date Sampled:	09/27/05
Matrix:	AQ - Ground Water	Date Received:	09/27/05
Method:	EPA 624	Percent Solids:	n/a
Project:	Exxon:98-MRL Former Terminal, Maple St., Marlborough, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D45363.D	1	09/30/05	AT	n/a	n/a	MSD2562
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	1.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	92%		76-138%
2037-26-5	Toluene-D8 (SUR)	102%		86-114%
460-00-4	4-Bromofluorobenzene (SUR)	99%		76-114%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PRIM. RT LGAC		
Lab Sample ID:	M51119-3	Date Sampled:	09/27/05
Matrix:	AQ - Ground Water	Date Received:	09/27/05
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	Exxon:98-MRL Former Terminal, Maple St., Marlborough, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E24545.D	1	10/04/05	PB	09/28/05	OP9713	MSE1284
Run #2							

	Initial Volume	Final Volume
Run #1	930 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	5.4	ug/l	
208-96-8	Acenaphthylene	ND	5.4	ug/l	
120-12-7	Anthracene	ND	5.4	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.4	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.4	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.4	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.4	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.4	ug/l	
218-01-9	Chrysene	ND	5.4	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.4	ug/l	
206-44-0	Fluoranthene	ND	5.4	ug/l	
86-73-7	Fluorene	ND	5.4	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.4	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.4	ug/l	
91-20-3	Naphthalene	ND	5.4	ug/l	
85-01-8	Phenanthrene	ND	5.4	ug/l	
129-00-0	Pyrene	ND	5.4	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	59%		32-120%
321-60-8	2-Fluorobiphenyl	66%		32-120%
1718-51-0	Terphenyl-d14	65%		33-123%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PRIM. RT LGAC		
Lab Sample ID:	M51119-3	Date Sampled:	09/27/05
Matrix:	AQ - Ground Water	Date Received:	09/27/05
Method:	SW846 8015	Percent Solids:	n/a
Project:	Exxon:98-MRL Former Terminal, Maple St., Marlborough, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR33702.D	1	09/27/05	AP	n/a	n/a	GQR1758
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
	TPH-GRO (VOA)	ND	0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
615-59-8	2,5-Dibromotoluene	66%		50-138%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PRIM. RT LGAC		
Lab Sample ID:	M51119-3	Date Sampled:	09/27/05
Matrix:	AQ - Ground Water	Date Received:	09/27/05
Method:	SW846-8015 SW846 3510C	Percent Solids:	n/a
Project:	Exxon:98-MRL Former Terminal, Maple St., Marlborough, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH38990.D	1	10/02/05	SL	09/28/05	OP9717	GGH3017
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (Semi-VOA)	ND	0.20	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	87%		39-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PRIM. LT LGAC		
Lab Sample ID:	M51119-4	Date Sampled:	09/27/05
Matrix:	AQ - Ground Water	Date Received:	09/27/05
Method:	EPA 624	Percent Solids:	n/a
Project:	Exxon:98-MRL Former Terminal, Maple St., Marlborough, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D45364.D	1	09/30/05	AT	n/a	n/a	MSD2562
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	96%		76-138%
2037-26-5	Toluene-D8 (SUR)	98%		86-114%
460-00-4	4-Bromofluorobenzene (SUR)	100%		76-114%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PRIM. LT LGAC		
Lab Sample ID:	M51119-4	Date Sampled:	09/27/05
Matrix:	AQ - Ground Water	Date Received:	09/27/05
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	Exxon:98-MRL Former Terminal, Maple St., Marlborough, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E24537.D	1	10/03/05	PB	09/28/05	OP9713	MSE1283
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	5.3	ug/l	
208-96-8	Acenaphthylene	ND	5.3	ug/l	
120-12-7	Anthracene	ND	5.3	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.3	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.3	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.3	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.3	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.3	ug/l	
218-01-9	Chrysene	ND	5.3	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.3	ug/l	
206-44-0	Fluoranthene	ND	5.3	ug/l	
86-73-7	Fluorene	ND	5.3	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.3	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.3	ug/l	
91-20-3	Naphthalene	ND	5.3	ug/l	
85-01-8	Phenanthrene	ND	5.3	ug/l	
129-00-0	Pyrene	ND	5.3	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	70%		32-120%
321-60-8	2-Fluorobiphenyl	70%		32-120%
1718-51-0	Terphenyl-d14	69%		33-123%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PRIM. LT LGAC		
Lab Sample ID:	M51119-4	Date Sampled:	09/27/05
Matrix:	AQ - Ground Water	Date Received:	09/27/05
Method:	SW846 8015	Percent Solids:	n/a
Project:	Exxon:98-MRL Former Terminal, Maple St., Marlborough, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR33703.D	1	09/27/05	AP	n/a	n/a	GQR1758
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
	TPH-GRO (VOA)	ND	0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
615-59-8	2,5-Dibromotoluene	83%		50-138%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PRIM. LT LGAC		
Lab Sample ID:	M51119-4	Date Sampled:	09/27/05
Matrix:	AQ - Ground Water	Date Received:	09/27/05
Method:	SW846-8015 SW846 3510C	Percent Solids:	n/a
Project:	Exxon:98-MRL Former Terminal, Maple St., Marlborough, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH38991.D	1	10/02/05	SL	09/28/05	OP9717	GGH3017
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (Semi-VOA)	ND	0.21	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	109%		39-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	INF LGAC		
Lab Sample ID:	M51119-5	Date Sampled:	09/27/05
Matrix:	AQ - Ground Water	Date Received:	09/27/05
Method:	EPA 624	Percent Solids:	n/a
Project:	Exxon:98-MRL Former Terminal, Maple St., Marlborough, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D45365.D	1	09/30/05	AT	n/a	n/a	MSD2562
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	95%		76-138%
2037-26-5	Toluene-D8 (SUR)	97%		86-114%
460-00-4	4-Bromofluorobenzene (SUR)	101%		76-114%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	INF LGAC		
Lab Sample ID:	M51119-5	Date Sampled:	09/27/05
Matrix:	AQ - Ground Water	Date Received:	09/27/05
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	Exxon:98-MRL Former Terminal, Maple St., Marlborough, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E24538.D	1	10/03/05	PB	09/28/05	OP9713	MSE1283
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	5.3	ug/l	
208-96-8	Acenaphthylene	ND	5.3	ug/l	
120-12-7	Anthracene	ND	5.3	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.3	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.3	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.3	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.3	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.3	ug/l	
218-01-9	Chrysene	ND	5.3	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.3	ug/l	
206-44-0	Fluoranthene	ND	5.3	ug/l	
86-73-7	Fluorene	ND	5.3	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.3	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.3	ug/l	
91-20-3	Naphthalene	ND	5.3	ug/l	
85-01-8	Phenanthrene	ND	5.3	ug/l	
129-00-0	Pyrene	ND	5.3	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	69%		32-120%
321-60-8	2-Fluorobiphenyl	65%		32-120%
1718-51-0	Terphenyl-d14	60%		33-123%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	INF LGAC		
Lab Sample ID:	M51119-5	Date Sampled:	09/27/05
Matrix:	AQ - Ground Water	Date Received:	09/27/05
Method:	SW846 8015	Percent Solids:	n/a
Project:	Exxon:98-MRL Former Terminal, Maple St., Marlborough, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR33704.D	1	09/27/05	AP	n/a	n/a	GQR1758
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
	TPH-GRO (VOA)	ND	0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
615-59-8	2,5-Dibromotoluene	78%		50-138%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	INF LGAC		
Lab Sample ID:	M51119-5	Date Sampled:	09/27/05
Matrix:	AQ - Ground Water	Date Received:	09/27/05
Method:	SW846-8015 SW846 3510C	Percent Solids:	n/a
Project:	Exxon:98-MRL Former Terminal, Maple St., Marlborough, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH38992.D	1	10/02/05	SL	09/28/05	OP9717	GGH3017
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (Semi-VOA)	0.752	0.21	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	106%		39-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	INF DIFF		
Lab Sample ID:	M51119-6	Date Sampled:	09/27/05
Matrix:	AQ - Ground Water	Date Received:	09/27/05
Method:	EPA 624	Percent Solids:	n/a
Project:	Exxon:98-MRL Former Terminal, Maple St., Marlborough, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D45366.D	1	09/30/05	AT	n/a	n/a	MSD2562
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	102%		76-138%
2037-26-5	Toluene-D8 (SUR)	91%		86-114%
460-00-4	4-Bromofluorobenzene (SUR)	109%		76-114%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	INF DIFF		
Lab Sample ID:	M51119-6	Date Sampled:	09/27/05
Matrix:	AQ - Ground Water	Date Received:	09/27/05
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	Exxon:98-MRL Former Terminal, Maple St., Marlborough, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E24539.D	1	10/03/05	PB	09/28/05	OP9713	MSE1283
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
218-01-9	Chrysene	ND	5.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	60%		32-120%
321-60-8	2-Fluorobiphenyl	57%		32-120%
1718-51-0	Terphenyl-d14	51%		33-123%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	INF DIFF		
Lab Sample ID:	M51119-6	Date Sampled:	09/27/05
Matrix:	AQ - Ground Water	Date Received:	09/27/05
Method:	SW846 8015	Percent Solids:	n/a
Project:	Exxon:98-MRL Former Terminal, Maple St., Marlborough, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR33705.D	1	09/27/05	AP	n/a	n/a	GQR1758
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
	TPH-GRO (VOA)	ND	0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
615-59-8	2,5-Dibromotoluene	80%		50-138%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	INF DIFF		
Lab Sample ID:	M51119-6	Date Sampled:	09/27/05
Matrix:	AQ - Ground Water	Date Received:	09/27/05
Method:	SW846-8015 SW846 3510C	Percent Solids:	n/a
Project:	Exxon:98-MRL Former Terminal, Maple St., Marlborough, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH38994.D	1	10/02/05	SL	09/28/05	OP9717	GGH3017
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (Semi-VOA)	1.02	0.20	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	109%		39-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	M51119-7	Date Sampled:	09/27/05
Matrix:	AQ - Trip Blank Water	Date Received:	09/27/05
Method:	EPA 624	Percent Solids:	n/a
Project:	Exxon:98-MRL Former Terminal, Maple St., Marlborough, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D45348.D	1	09/29/05	AT	n/a	n/a	MSD2562
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	108%		76-138%
2037-26-5	Toluene-D8 (SUR)	100%		86-114%
460-00-4	4-Bromofluorobenzene (SUR)	107%		76-114%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

CHAIN OF CUSTODY

495 Tech Center West, Bldg. 1
Marlboro, MA 01752
508-481-6200 FAX: 508-481-6200

Accutest Job #: M51119

Client Information | **Facility Information** | **Analytical Information**

EXXONMOBIL CORPORATION - Regional Laboratory Program Northeast

Consultants Company Name: ROUX ASSOCIATES	Project Name: FMR EXXON MOBIL TERMINAL MARLBORO
Address: 67 SOUTH BEDFORD ST STE 101W	Street: 274 MAPLE ST.
City: BURLINGTON State: MA Zip: 01803	City: MARLBOROUGH State: MA
Project Contact: IAN REED	ExxonMobil Contact: MIKE LAMARRE
Sampler's Name: K. GAUDET	ExxonMobil Contact Phone #: 401-434-7358
Phone #: 781-270-1600 Ext. Fax #: 781-270-9066	Location ID#: 98-MRL WBS#: 08
AFE #: E2-1993.30487-V.01.08	PO#: 4504981441 Line#: 10

Accutest Sample #	Field ID / Point of Collection	Collection: Date	Time	Sampled by	Matrix	# of bottles	Preservation: HCL	NaOH	HNO3	H2SO4	MeOH	Encore	Other	None	BTEX / MTBE 624	PAH 8270	TPH GRO + DRO 8015	SEVEN DAY RUSH
-1	SEC. RT LGAC	9/27/05	0900	KG	GW	8	✓							✓	✓	✓	✓	✓
-2	SEC. LT LGAC	9/27/05	0910	KG	GW	8	✓							✓	✓	✓	✓	✓
-3	PRIM. RT LGAC	9/27/05	0920	KG	GW	8	✓							✓	✓	✓	✓	
-4	PRIM. LT LGAC	9/27/05	0930	KG	GW	8	✓							✓	✓	✓	✓	
-5	INF LGAC	9/27/05	0940	KG	GW	8	✓							✓	✓	✓	✓	
-6	INF. DIFF.	9/27/05	0950	KG	GW	8	✓							✓	✓	✓	✓	
-7	TRIP BLANK	9/27/05				2	✓							✓		✓		

Turnaround Time (Business days)

- [x] Std. 10 Business Days + 7 DAY RUSH — Approved By:/Date
- [ ] 8 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day EMERGENCY

Emergency T/A is for FAX or Lablink Data

Data Deliverable Information

- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] Full Deliverables
- [ ] FULL CLP
- [ ] State Forms
- [ ] Disk Deliverable Format
- [x] Other MCP METHOD 1 DELIVERABLE REQ'D

Site Specific: QC Yes ☐ No ☐ If yes, indicate QC sample in Comments and submit triplicate volume.

Comments / Remarks

PLEASE USE XML FORMAT INCLUDING MCP METHODS + DELIVERABLES REQUIRED

Loc. 3J7, 13A

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler: 1 K. Gaudet	Date Time: 9-27-05 1220	Received by: 1	Relinquished by: 2	Date Time:	Received by: 2
Relinquished by: 3	Date Time:	Received by: 3	Relinquished by: 4	Date Time:	Received by: 4
Relinquished by: 5	Date Time:	Received by: 5	Seal #	Preserved where applicable: B	On Ice ☒ Temp. 3.2°C, 3.9°C, 5.1°C

4.1 4

M51119: Chain of Custody
Page 1 of 1