GeoInsight, Inc.
25 Sundial Avenue, Suite 515 West
Manchester, NH 03103
TEL 603-314-0820
FAX 603-314-0821
www.geoinsightinc.com

GeoInsight, Inc.
5 Lan Drive, Suite 200
Westford, MA 01886
TEL 978-692-1114
FAX 978-692-1115

GeoInsight, Inc.
Corporate Ten Center
1781 Highland Avenue, Suite 207
Cheshire, CT 06410
TEL 203-271-8036
FAX 203-271-8038

MAG910188

January 11, 2006

GeoInsight Project 3255-000

United States Environmental Protection Agency
Remediation General Permit
Municipal Assistance Unit (CMU)
1 Congress Street, Suite 1100
Boston, Massachusetts 02114-2023

Re: Remediation General Permit
Mr. Mike's Mobil
1274 Main Street
Ashby, Massachusetts
MADEP RTN No. 2-0000011
Former Tier 1A Permit No. 84825
NPDES Permit Exclusion Reference #99-193

JAN 17 2006

Dear Sir/Madam:

GeoInsight, Inc., on behalf of Peterborough Oil Company, Inc., is providing a response to the Notice of Availability of the Remediation General Permit (RGP) –MAG910000 or NHG910000 dated September 15, 2005 and additional information in support of a RGP for the Mr. Mike's Mobil property located at 1274 Main Street in Ashby, Massachusetts. This letter is intended to notify the United States Environmental Protection Agency (USEPA) that the existing application for an individual National Pollutant Discharge Elimination Systems (NPDES) permit for the Site remains valid. A copy of the completed original NPDES permit application, including Forms 1 and 2C and As-Built Drawings and Diagrams, is included in Attachment A.

The historical release of gasoline associated with this property has been monitored since activation of the original ground water treatment system in August 1999 and modified ground water treatment system in January 2003, in accordance with the NPDES Permit Exclusion #99-193. The NPDES Exclusion was issued to Peterborough Oil Co., Inc., owner of the release site, and a copy of the permit is included as Attachment B.

The objective of the bedrock ground water pump and treat remedial system operation was to inhibit migration of dissolved phase hydrocarbons, primarily methyl-tert-butyl ether (MTBE), in the bedrock ground water and to minimize further migration of petroleum impacts from a historical release of gasoline. The ground water treatment system, originally designed and activated in August 1999 was retrofitted and re-activated in January 2003. Currently, ground water is extracted from one 6-inch diameter bedrock extraction well (GT-4B) and treatment

consists of one bag filter and two liquid-phase granular activated carbon (LGAC) units plumbed in series. The bag filter is located in-line prior to the LGAC units and includes a 25-micrometer-filtering unit. Two vessels, each containing approximately 500 pounds of reactivated LGAC, are used to treat the extracted ground water prior to discharge. Treated water is discharged to a catch basin located north of the treatment shed on the neighboring property (Lot 49). The catch basin discharges southwest of Lot 49 to an un-named river. A Site Locus Plan (Figure 1), Site Plan showing the discharge location (Figure 2), and Soil Vapor Extraction, Air Sparging and Ground Water Pumping System diagram (Figure 3) are included as Attachment C.

As required by the NPDES Permit Exclusion, samples have been collected monthly from the treatment system influent, midpoint, and effluent points. The samples were analyzed for benzene, toluene, ethylbenzene, xylenes, methyl-tertiary-butyl-ether, and naphthalene by USEPA Method 8260B. Influent and effluent samples for each sampling event were also submitted and analyzed for total petroleum hydrocarbons by USEPA Method 8015, for gasoline range organics, and total suspended solids by USEPA Method 160.2. Historical analytical results are summarized and compared with the established permit discharge limits in Table 1. A copy of these results and a graphical representation of the mass removal of volatile organic compounds removed by the treatment system are included in Attachment D.

If you have questions regarding the information contained herein, please contact us at (603) 314-0820.

Sincerely,
GEOINSIGHT, INC.

Amber L. Ahles
Project Manager/Project Engineer

Michael F. Dadey, P.G., L.S.P.
Associate/Senior Hydrogeologist

Enclosures

cc: Timothy Petersen, Peterborough Oil Company, Inc.
Robert Adler, MADEP, Central Regional Office
Marja-Leena LePoer, Ashby Public Library, Local Information Repository
Ashby Board of Health
James Garreffi, Nashoba Associated Boards of Health
Williams & Ross

P:\3255 POC Ashby\NPDES\RGP Letter.doc

ATTACHMENT A
USEPA NPDES PERMIT APPLICATION
FEBRUARY 25, 2000

COPY

the IT group

LETTER OF TRANSMITTAL

DATE: February 25, 2000

Via: Certified Mail

TO: USEPA Region 1

ADDRESS 1 Congress Street, Suite 1100

CITY Boston, MA 02114-2023

ATTENTION: Olga Vergara, CMU

We are sending you: ✓ Herewith ___ Under separate cover ___ Prints

___ Tracings ___ Specifications ___ Other

Attached is a USEPA NPDES Permit Application, Forms 1 and 2C, with attachments for Mr. Mikes Mobil, 1274 Main Street, Ashby, MA. MADEP (RTN #2-0000011, Tier 1A Permit #84825).

These are: (as checked below)

___ Approved
___ Not approved
___ No exceptions
___ Make corrections observed
___ Revise and resubmit
___ Return ___ corrected copies

✓ For your approval
___ For review and comment
___ Per your request
___ For use on job
✓ For your files
___ For your signature

Remarks Please contact the undersigned if you have any questions or need additional information.

If enclosures received are not as listed above, please notify at once.

copy: Tim Peterson, POC
Maija-Leena LePoer, Ashby Public Library
Ashby Board of Health, Ashby Con Com

Very truly yours,
IT Corporation

By Jeffrey R. LaCroix
Jeffrey R. LaCroix
Project Manager

\\NORWFP2\OPERATIONS$\Peterborough Oil\Ashby\Final00\Correspondence\USEPA NPDES Permit trans.doc

100 River Ridge Drive, Norwood, MA 02062 USA (781) 769-7600 FAX (781) 769-1866

se print or type in the unshaded areas only
—in areas are spaced for elite type, i.e., 12 characters/inch).

Form Approved. OMB No. 2040-0086 Approval expires 7-31-88

FORM 1
NERAL

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY

GENERAL INFORMATION

Consolidated Permits Program
(Read the "General Instructions" before starting.)

I. EPA I.D. NUMBER

F D

LABEL ITEMS

EPA I.D. NUMBER

Mr. Mike's Mobil

Peterborough Oil Co.
665 North Main Street
Leominster, MA 01453

1274 Main Street
Ashby, MA 01431

PLEASE PLACE LABEL IN THIS SPACE

GENERAL INSTRUCTIONS

If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill—in area below. Also, if any of the preprinted data is absent *(the area to the left of the label space lists the information that should appear)*, please provide it in the proper fill—in area*(s)* below. If the label is complete and correct, you need not complete Items I, III, V, and VI *(except VI-B which must be completed regardless)*. Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

POLLUTANT CHARACTERISTICS

NSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any uestions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold—faced terms.

SPECIFIC QUESTIONS	MARK 'X' YES	NO	FORM ATTACHED	SPECIFIC QUESTIONS	MARK 'X' YES	NO	FORM ATTACHED
. Is this facility a **publicly owned treatment works** which results in a **discharge** to **waters of the U.S.**? (FORM 2A)		X		B. Does or will this facility *(either existing or proposed)* include a **concentrated animal feeding operation** or **aquatic animal production facility** which results in a **discharge to waters of the U.S.**? (FORM 2B)		X	
. Is this a facility which currently results in **discharges** to **waters of the U.S.** other than those described in A or B above? (FORM 2C)	X		X	D. Is this a proposed facility *(other than those described in A or B above)* which will result in a **discharge** to **waters of the U.S.**? (FORM 2D)		X	
. Does or will this facility treat, store, or dispose of **hazardous wastes**? (FORM 3)		X		F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X		H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
. Is this facility a proposed **stationary source** which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X		J. Is this facility a proposed **stationary source** which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	

I. NAME OF FACILITY

SKIP MR. MIKE'S MOBIL

. FACILITY CONTACT

A. NAME & TITLE *(last, first, & title)*: TIM PETERSEN V.P.-P.O.C.

B. PHONE *(area code & no.)*: 978 534 6587

. FACILITY MAILING ADDRESS

A. STREET OR P.O. BOX: PETERBOROUGH OIL 665 N. MAIN ST.

B. CITY OR TOWN: LEOMINSTER

C. STATE: MA

D. ZIP CODE: 01453

. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER: 1274 MAIN STREET

B. COUNTY NAME: MIDDLESEX

C. CITY OR TOWN: ASHBY

D. STATE: MA

E. ZIP CODE: 01431

F. COUNTY CODE *(if known)*:

ONTINUED FROM THE FRONT

VII. SIC CODES (4-digit, in order of priority)

A. FIRST	B. SECOND
5541 (specify) Gasoline Station With Convenience Store	C 7 (specify)

C. THIRD	D. FOURTH
(specify)	C 7 (specify)

VIII. OPERATOR INFORMATION

A. NAME: PETERBOROUGH OIL COMPANY

B. Is the name listed in Item VIII-A also the owner? ☒ YES ☐ NO

C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box; if "Other", specify.)
F = FEDERAL
S = STATE
P = PRIVATE
M = PUBLIC (other than federal or state)
O = OTHER (specify)

P (specify)

D. PHONE (area code & no.): C A 508 534 6587

E. STREET OR P.O. BOX: 65 NORTH MAIN STREET

F. CITY OR TOWN: LEOMINSTER

G. STATE: MA

H. ZIP CODE: 01453

IX. INDIAN LAND

Is the facility located on Indian lands? ☐ YES ☒ NO

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES (Discharges to Surface Water)	N	D. PSD (Air Emissions from Proposed Sources)	9 P
B. UIC (Underground Injection of Fluids)	U	E. OTHER (specify)	9 84825 (specify) MADEP TIER 1A
C. RCRA (Hazardous Wastes)	R	E. OTHER (specify)	9 (specify)

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property bounderies. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS (provide a brief description)

See Attachment A

XIII. CERTIFICATION (see instructions)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE (type or print)	B. SIGNATURE	C. DATE SIGNED
Tim Petersen V.P.	Tim Petersen	2-17-00

COMMENTS FOR OFFICIAL USE ONLY

ase print or type in the unshaded areas only.

EPA I.D. NUMBER (copy from Item 1 of Form 1)

OMB No. 2040-0086
Approval expires 7-31-88

FORM 2C NPDES

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL OPERATIONS
Consolidated Permits Program

I. OUTFALL LOCATION

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

A. OUTFALL NUMBER (list)	B. LATITUDE			C. LONGITUDE			D. RECEIVING WATER (name)
	1. DEG.	2. MIN.	3. SEC.	1. DEG.	2. MIN.	3. SEC.	
A	42°	40	55	71	50	02	Unnamed tributary to Willard Brook

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined *(e.g., for certain mining activities)*, provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

1. OUTFALL NO. (list)	2. OPERATION(S) CONTRIBUTING FLOW		3. TREATMENT		
	a. OPERATION (list)	b. AVERAGE FLOW (include units)	a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1	
A	Removal of Groundwater from 1 bedrock well and 6 soil vapor extraction pumps, transfer from SVE Water Knockout drum.	8-10 gpm	Activated Carbon Adsorption	2-A	

OFFICIAL USE ONLY *(effluent guidelines sub-categories)*

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☐ YES *(complete the following table)* ☒ NO *(go to Section III)*

1. OUTFALL NUMBER *(list)*	2. OPERATION(s) CONTRIBUTING FLOW *(list)*	3. FREQUENCY a. DAYS PER WEEK *(specify average)*	3. FREQUENCY b. MONTHS PER YEAR *(specify average)*	4. FLOW a. FLOW RATE *(in mgd)* 1. LONG TERM AVERAGE	4. FLOW a. FLOW RATE *(in mgd)* 2. MAXIMUM DAILY	4. FLOW b. TOTAL VOLUME *(specify with units)* 1. LONG TERM AVERAGE	4. FLOW b. TOTAL VOLUME *(specify with units)* 2. MAXIMUM DAILY	4. FLOW c. DURATION *(in days)*
	Not Applicable							

PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☐ YES *(complete Item III-B)* ☒ NO *(to to Section IV)*

B. Are the limitations in the applicable effluent guideline expressed in terms of production *(or other measure of operation)*?

☐ YES *(complete Item III-C)* ☒ NO *(go to Section IV)*

C. If you answered "yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

1. AVERAGE DAILY PRODUCTION a. QUANTITY PER DAY	b. UNITS OF MEASURE	c. OPERATION, PRODUCT, MATERIAL, ETC. *(specify)*	2. AFFECTED OUTFALLS *(list outfall numbers)*
		Not Applicable	

IMPROVEMENTS

Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operation of waste water treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

☒ YES *(complete the following table)* ☐ NO *(go to Item IV-B)*

IDENTIFICATION OF CONDITION, AGREEMENT, ETC.	2. AFFECTED OUTFALLS a. NO.	2. AFFECTED OUTFALLS b. SOURCE OF DISCHARGE	3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE a. REQUIRED	4. FINAL COMPLIANCE DATE b. PROJECTED
NPDES Permit Exclusion, No. 99-193 (6/29/99)	A	Groundwater Treatment System	See Attachments A & B		

OPTIONAL: You may attach additional sheets describing any additional water pollution control programs *(or other environmental projects which may affect your discharges)* you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction. ☐ MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED

EPA I.D. NUMBER (copy from Item 1 of Form 1)

Form Approved.
OMB No. 2040-0086
Approval expires 7-31-88

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NTAKE AND EFFLUENT CHARACTERISTICS

B, & C: See instructions before proceeding — Complete one set of tables for each outfall — Annotate the outfall number in the space provided.
NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9.

. Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
Xylene	petroleum release (gasoline) Influent analytical results show a maximum concentration of Total Xylenes of 125 µg/L. Effluent analytical results remain below detection limits. (see attachment C)		

I. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or yproduct?

☐ YES (list all such pollutants below) ☒ NO (go to Item VI-B)

Not Applicable

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VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☐ YES *(identify the test(s) and describe their purposes below)* ☒ NO *(go to Section VIII)*

Not Applicable

CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

☒ YES *(list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below)* ☐ NO *(go to Section IX)*

A. NAME	B. ADDRESS	C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZED (list)
Eastern Analytical, Inc	25 Chenell Drive, Concord, NH 03301	603/228-0525	Method 8100M Method 8021 B

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, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME & OFFICIAL TITLE *(type or print)*: Tim Petersen V.P.

B. PHONE NO. *(area code & no.)*: 978-534-6587

SIGNATURE: [signature]

D. DATE SIGNED:

EASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of s information on separate sheets *(use the same format)* instead of completing these pages. E INSTRUCTIONS.

EPA I.D. NUMBER *(copy from Item 1 of Form 1)*

Form Approved.
OMB No. 2040-0086
Approval expires 7-31-88

OUTFALL NO. A

/. INTAKE AND EFFLUENT CHARACTERISTICS *(continued from page 3 of Form 2-C)*

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. (2) MASS	d. NO. OF ANALYSES	3. UNITS (specify if blank) a. CONCENTRATION	b. MASS	4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. (2) MASS	b. NO. OF ANALYSES
Biochemical xygen Demand BOD)	N/A											→
. Chemical xygen Demand COD)	N/A											→
. Total Organic arbon (TOC)	N/A											→
. Total Suspended olids (TSS)	N/A											→
. Ammonia (as N)	N/A											→
Flow	VALUE		VALUE		VALUE 8-10			gpm		VALUE		
. Temperature winter)	VALUE		VALUE		VALUE 11.1			°C		VALUE		
. Temperature summer)	VALUE		VALUE		VALUE 11.1			°C		VALUE		
pH	MINIMUM	MAXIMUM 7.8	MINIMUM	MAXIMUM				STANDARD UNITS				

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X' a. BELIEVED PRESENT	b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. (2) MASS	b. NO. OF ANALYSES
. Bromide 24959-67-9)		X												
. Chlorine, Total Residual		X												
. Color		X												
. Fecal Coliform		X												
. Fluoride (16984-48-8)		X												
. Nitrate-Nitrite (as N)		X												

CONTINUE ON REVERSE

EM V-B CONTINUED FROM FRONT

POLLUT-NT AND CAS NO. (if available)	2. MARK 'X' a. BELIEVED PRESENT	b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
Nitrogen, tal Organic N)		X												
Oil and ease		X												
hosphorus P), Total 23-14-0)		X												
adioactivity														
Alpha, al		X												
Beta, al		X												
Radium, al		X												
Radium Total		X												
ulfate O_4) 08-79-8)		X												
ulfide)		X												
ulfite O_3) 65-45-3)		X												
urfactants		X												
uminum, l 9-90-5)		X												
rium, l 0-39-3)		X												
ron, 0-42-8)		X												
balt, 0-48-4)		X												
n, Total 0-89-6)	X		10							mg/L		10		1
gnesium, 0-95-4)		X												
ybdenum, -98-7)		X												
nganese, -96-5)	X		0.44							mg/L		0.44		1
, Total -31-5)		X												
anium, -32-6)		X												

Form 3510-2C (Rev. 9-87)

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
	A

Form Approved.
OMB No. 2040-0086
Approval expires 7-31-88

ITINUED FROM PAGE 3 OF FORM 2-C

ART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a *(secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions)*, mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table *(all 7 pages)* for each outfall. See instructions for additional details and requirements.

OLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
ALS, CYANIDE, AND TOTAL PHENOLS															
Antimony, al (7440-36-0)			X												
Arsenic, Total 10-38-2)			X												
Beryllium, al, 7440-41-7)			X												
Cadmium, al (7440-43-9)			X												
Chromium, al (7440-47-3)			X												
Copper, Total 0-50-8)			X												
Lead, Total 9-92-1)			X												
Mercury, Total 39-97-6)			X												
Nickel, Total 40-02-0)			X												
1. Selenium, al (7782-49-2)			X												
1. Silver, Total 40-22-4)			X												
1. Thallium, al (7440-28-0)			X												
1. Zinc, Total 40-66-6)			X												
1. Cyanide, al (57-12-5)			X												
1. Phenols, al			X												
OXIN															
2,7,8-Tetra-bibenzo-P-oxin (1764-01-6)			X	DESCRIBE RESULTS											

CONTINUE ON REVERSE

POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
/MS FRACTION – VOLATILE COMPOUNDS															
. Acrolein 07-02-8).			X												
. Acrylonitrile 07-13-1)			X												
. Benzene -43-2)		X		<1						1	µg/L		2		1
. Bis (Chloro-thyl) Ether 2-88-1)			X												
Bromoform -25-2)			X												
Carbon rachloride 23-5)			X												
Chlorobenzene 3-90-7)			X												
Chlorodi-nomethane 1-48-1)			X												
Chloroethane 00-3)			X												
. 2-Chloro-ivinyl Ether 1-75-8)			X												
. Chloroform 36-3)			X												
. Dichloro-nomethane 27-4)			X												
Dichloro-oromethane 71-8)			X												
1,1-Dichloro-ne (75-34-3)			X												
1,2-Dichloro-ne (107-06-2)			X												
1,1-Dichloro-ene (75-35-4)			X												
1,2-Dichloro-ane (78-87-5)			X												
,3-Dichloro-ene (542-75-6)			X												
Ethylbenzene 41-4)		X		<1						1	µg/L		11		1
Methyl ide (74-83-9)			X												
Methyl ide (74-87-3)			X												

CONTINUE ON PAGE V

TINUED FROM THE FRONT

OLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
MS FRACTION – BASE/NEUTRAL COMPOUNDS															
Acenaphthene 32-9)			X												
Acenaphtylene l-96-8)			X												
Anthracene)-12-7)			X												
Benzidine 87-5)			X												
Benzo *(a)* hracene 55-3)			X												
Benzo *(a)* ne (50-32-8)			X												
3,4-Benzo- ranthene -99-2)			X												
Benzo *(ghi)* lene -24-2)			X												
Benzo *(k)* ranthene -08-9)			X												
Bis *(2-Chloro-* xy) Methane -91-1)			X												
Bis *(2-Chloro-* l) Ether -44-4)			X												
lis *(2-Chloroiso-* l Ether (102-60-1)			X												
Bis *(2-Ethyl-* l) Phthalate -81-7)			X												
4-Bromo- yl Phenyl r (101-55-3)			X												
Butyl Benzyl alate (85-68-7)			X												
2-Chloro- thalene 58-7)			X												
4-Chloro- yl Phenyl r (7005-72-3)			X												
Chrysene -01-9)			X												
Dibenzo *(a,h)* racene 70-3)			X												
1,2-Dichloro- ene (95-50-1)			X												
1,3-Dichloro- ene (541-73-1)			X												

CONTINUE ON PAGE V-7

EPA I.D. NUMBER (copy from Item 1 of Form 1) | OUTFALL NUMBER A

OMB No. 2040-0086
Approval expires 7-31-88

POLLUTANT AND CAS NUMBER (if available)	2. MARK X a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
/MS FRACTION – VOLATILE COMPOUNDS (continued)															
/. Methylene oride (75-09-2)			X												
/. 1,1,2,2-Tetra-roethane 34-5)			X												
/. Tetrachloro-ylene (127-18-4)			X												
/. Toluene 3-88-3)		X		<1						1	µg/L		11		1
. 1,2-Trans-hloroethylene 3-60-5)			X												
. 1,1,1-Tri-roethane 55-6)			X												
. 1,1,2-Tri-roethane 00-5)			X												
. Trichloro-lene (79-01-6)			X												
. Trichloro-romethane 59-4)			X												
. Vinyl ride (75-01-4)			X												
MS FRACTION – ACID COMPOUNDS															
2-Chlorophenol 57-8)			X												
2,4-Dichloro-ol (120-83-2)			X												
2,4-Dimethyl-ol (105-67-9)			X												
1,6-Dinitro-O-l (534-52-1)			X												
2,4-Dinitro-ol (51-28-5)			X												
-Nitrophenol 5-5)			X												
-Nitrophenol 02-7)			X												
-Chloro-M-l (59-50-7)			X												
entachloro-l (87-86-5)			X												
Phenol 95-2)			X												
2,4,6-Tri-ophenol			X												

EPA I.D. NUMBER (copy from Item 1 of Form 1) | OUTFALL NUMBER A

OMB No. 2040-0086
Approval expires 7-31-88

ONTINUED FROM PAGE V-6

POLLUTANT AND CAS NUMBER (if available)	2. MARK "X" a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
C/MS FRACTION — BASE/NEUTRAL COMPOUNDS (continued)															
2B. 1,4-Dichlorobenzene (106-46-7)			X												
3B. 3,3'-Dichlorobenzidine (91-94-1)			X												
4B. Diethyl hthalate (84-66-2)			X												
5B. Dimethyl hthalate (131-11-3)			X												
6B. Di-N-Butyl hthalate (84-74-2)			X												
7B. 2,4-Dinitrotoluene (121-14-2)			X												
8B. 2,6-Dinitrotoluene (606-20-2)			X												
9B. Di-N-Octyl hthalate (117-84-0)			X												
0B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)			X												
1B. Fluoranthene (206-44-0)			X												
2B. Fluorene (86-73-7)			X												
3B. Hexachlorobenzene (118-74-1)			X												
4B. Hexachlorobutadiene (87-68-3)			X												
5B. Hexachlorocyclopentadiene (77-47-4)			X												
6B. Hexachloroethane (67-72-1)			X												
7B. Indeno (1,2,3-cd) Pyrene (193-39-5)			X												
8B. Isophorone (78-59-1)			X												
9B. Naphthalene (91-20-3)			X												
0B. Nitrobenzene (98-95-3)			X												
1B. N-Nitrosodimethylamine (62-75-9)			X												
2B. N-Nitrosodi-N-Propylamine			X												

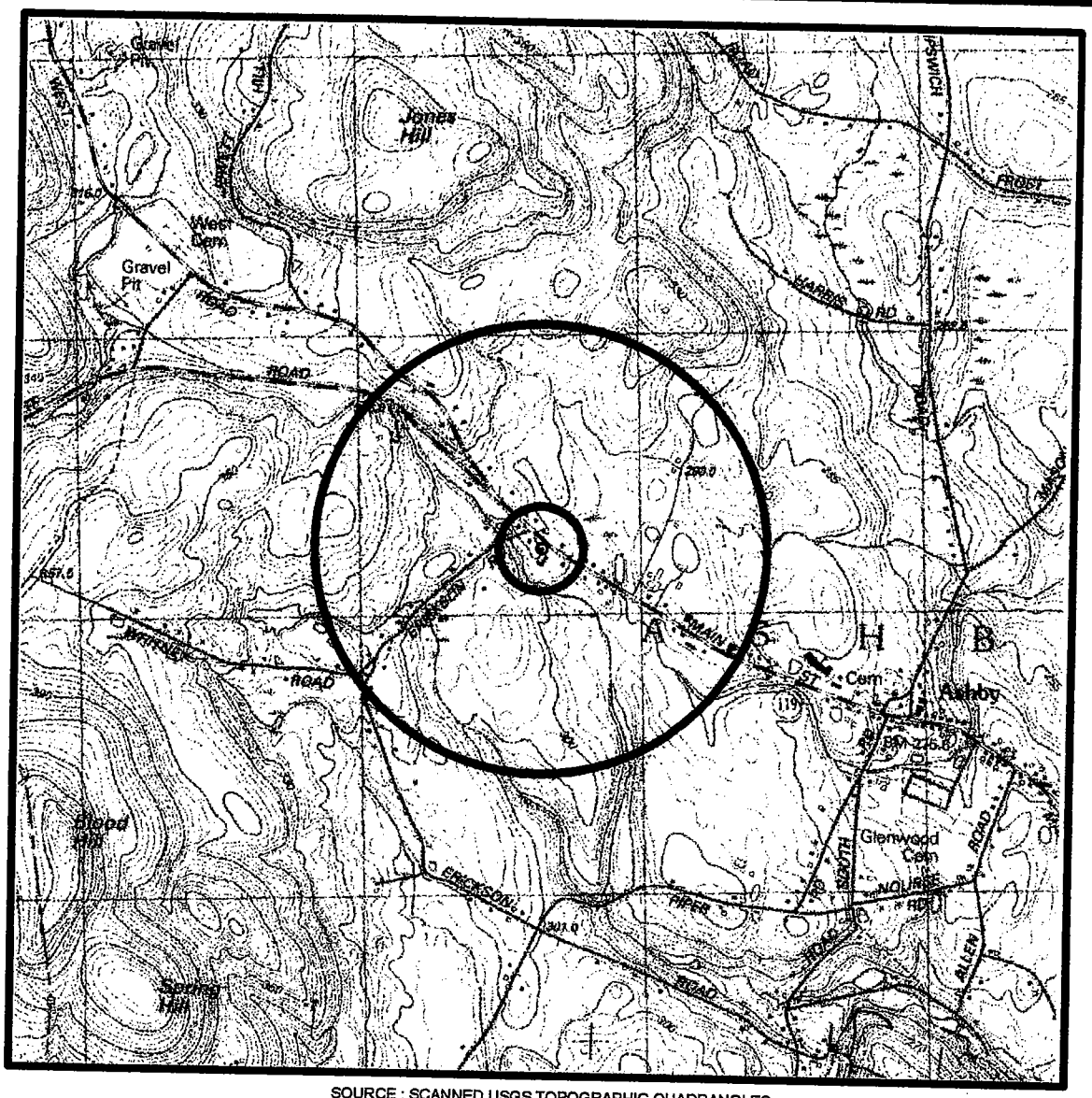
TINUED FROM THE FRONT

OLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)															
N-Nitro-henylamine 0-6)			X												
Phenanthrene 1-8)			X												
Pyrene 00-0)			X												
1,2,4 - Tri-obenzene 82-1)			X												
MS FRACTION – PESTICIDES															
ldrin 00-2)			X												
-BHC 84-6)			X												
BHC 85-7)			X												
-BHC 9-9)			X												
BHC 86-8)			X												
lordane 1-9)			X												
4'-DDT 1-3)			X												
4'-DDE 5-9)			X												
4'-DDD 1-8)			X												
ieldrin 1)			X												
-Endosulfan 9-7)			X												
-Endosulfan 9-7)			X												
ndosulfan 07-8)			X												
ndrin 8)			X												
ndrin de 93-4)			X												
ptachlor 8)			X												

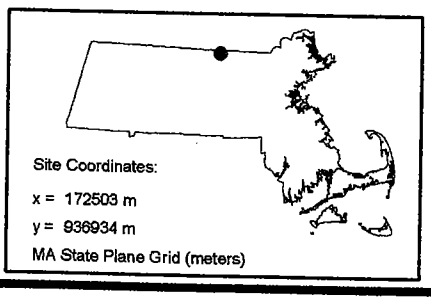
TINUED FROM PAGE V-8

OLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TEST INCLUDED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
MS FRACTION — PESTICIDES (continued)															
Heptachlor ide 4-57-3)			X												
PCB-1242 69-21-9)			X												
PCB-1254 97-69-1)			X												
PCB-1221 04-28-2)			X												
PCB-1232 41-16-5)			X												
PCB-1248 72-29-6)			X												
PCB-1260 96-82-5)			X												
PCB-1016 74-11-2)			X												
Toxaphene 1-35-2)			X												

FIGURES / AS-BUILT DRAWINGS & DIAGRAMS



SOURCE : SCANNED USGS TOPOGRAPHIC QUADRANGLES
SUPPLIED BY THE MASSACHUSETTS EXECUTIVE OFFICE
OF ENVIRONMENTAL AFFAIRS, MASSGIS, JULY 1996



1000 0 1000 2000
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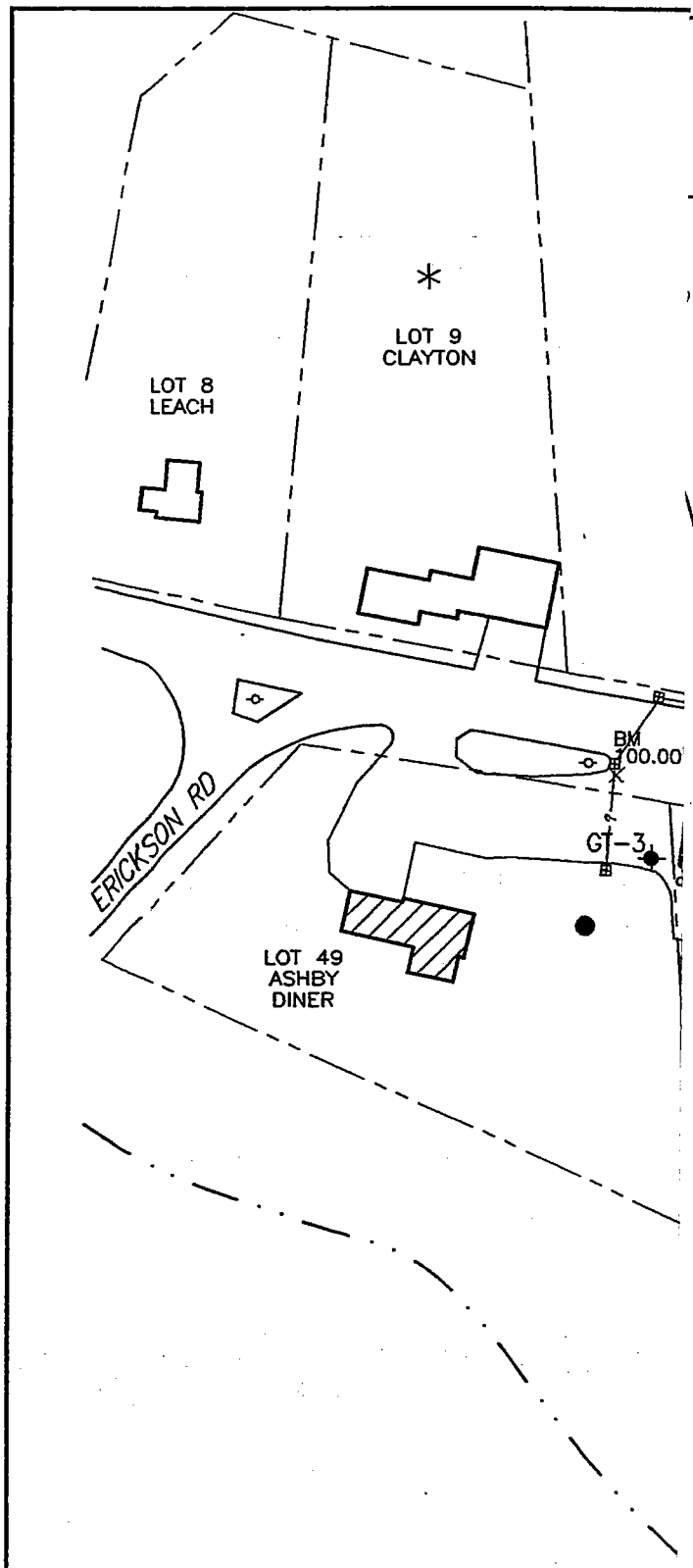
A Member of The IT Group

DESIGNED:	SITE LOCATION MAP SHOWING 500' AND 1/2 MILE RADII	
DETAILED: EMD	CLIENT: PETERBOROUGH OIL COMPANY, INC.	DRAWING DATE: 06/25/99
CHECKED:	LOCATION: 1274 MAIN STREET ASHBY, MASSACHUSETTS	FIGURE: 1

N:\ARCVIEW\SITELOC\MISC\POC_ASHB.PRT



LEGEND

- PIEZOMETER
- OVERBURDEN WATER SUPPLY WELL
- BEDROCK WATER SUPPLY WELL
- WATER SUPPLY WELL ON PROPERTY (LOCATION NOT CONFIRMED)
- DESTROYED MONITORING WELL
- OVERBURDEN MONITORING WELL
  EX.: GT-3 – WELL IDENTIFICATION

POINT OF ENTRY (POE) TREATMENT SYSTEMS CURRENTLY MAINTAINED BY PETERBOROUGH OIL COMPANY, INC.

ELEVATIONS RELATIVE TO ARBITRARY DATUM:
BENCHMARK (BM) = 100.00'

PROPERTY LINE

MAP SOURCES: 1] TOWN OF ASHBY, MA ASSESSORS MAPS NO. 6 AND 8 (PREPARED BY CARTOGRAPHIC ASSOCIATES, INC., REVISED TO 1/1/96); 2] MASS. DOT DRAWINGS OF ROUTE 119 UTILITY AND PROPERTY DETAILS (SHEETS 11 AND 12) DATED 1945; 3] SITE WELL LOCATION PLAN PREPARED BY HIDELL–EYSTER & ASSOC., INC. 9/10/86; 4] SITE PLAN OF MR. MIKE'S FOOD MART PROVIDED BY PETERBOROUGH OIL CO., INC., 2/1996; 5] FLUOR DANIEL GTI FIELD MEASUREMENTS AND OBSERVATIONS; 5] USGS ASBURNHAM TOPOGRAPHIC QUADRANGLE (1988); 6] LOCATION AND IDENTIFICATION OF AREA RESIDENTS MAP PREPARED BY HIDELL–EYSTER TECHNICAL SERVICES, INC., 1/25/95.

0 100 200
SCALE FEET

N

IT CORPORATION
100 RIVER RIDGE DRIVE
NORWOOD, MA 02062
(781) 769-7600

GAUGING DATE:	DRAWING DATE:	ACAD FILE:
NA	02/24/00	SITEPLAN

SITE MAP

CLIENT:	PM:
PETERBOROUGH OIL COMPANY, INC.	
LOCATION: MR. MIKE'S 1274 MAIN STREET ASHBY, MASSACHUSETTS	PE/RG:

DESIGNED:	DETAILED:	PROJECT NO.:	FIGURE:
	JC/EMD	11300156	2

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VALVE AND PIPING SYMBO REVIATIONS

GLOBE VALVE
GATE VALVE
BUTTERFLY VALVE
CHECK VALVE
PLUG VALVE
3-WAY VALVE
ANGLE VALVE
RELIEF OR SAFETY VALVE
DIAPHRAGM VALVE
BALL VALVE
SELF-CONTAINED PRESSURE REGULATING VALVE W/RELIEF
KNIFE GATE VALVE
BACKFLOW PREVENTER
NO NORMALLY OPEN
NC NORMALLY CLOSED
FLEXIBLE HOSE
ROTAMETER

BASKET T ERIC PRESSURE
Y-TYPE S
DUPLEX AIR GROUNDWATER
SLEEVE C
FLOOR DI
EQUIPMEN WATER
CLEANOUTR
REMOVABI
REMOVABI XTRACTION
BF BLIND FL
EXHAUST
EXHAUST TIFICATION
REDUCER POLYVINYL CHLORIDE PIPE
UNION ETAL PIPE E PIPE
C QUICK DI EEL PIPE PIPE
GAUGE SI E PIPE ORIDE PIPE ONCRETE PIPE
EL PIPE PIPE

VALVE OPERATOR SYMBO

S SOLENOID
M MOTOR, ELECTRIC
DIAPHRAGM
DIAPHRAG
T HANDWHE TIFICATION
CHAINWHI

PRIMARY ELEMENT SYMBOLS - LASS

ABLE NUMBER
VIATION

ORIFICE PLATE
PITOT TUBE
VENTURI OR FLOW TUBE

CATION

EQUIPMENT SYMBOLS

NORMALLY USED)
S

SUBMERSIBLE PUMP
PUMP

IONS
PEN-CLOSE
N-OFF (MAINTAINED)
XIDATION REDUCTION POTENTIAL
PEN-STOP-CLOSE (MOMENTARY)
TART-STOP (MOMENTARY)
IGH SELECT
OW SELECT
QUARE ROOT
DD OR TOTALIZE

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NO.	DATE	BY	REVISION

APPROVALS

SIGNATURE	DATE
REVIEW ENGR:	
PROJECT ENGR:	
PROJECT MGR:	
CLIENT:	

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100 RIVER RIDGE DRIVE
NORWOOD, MA. 02062 (781) 769-7600

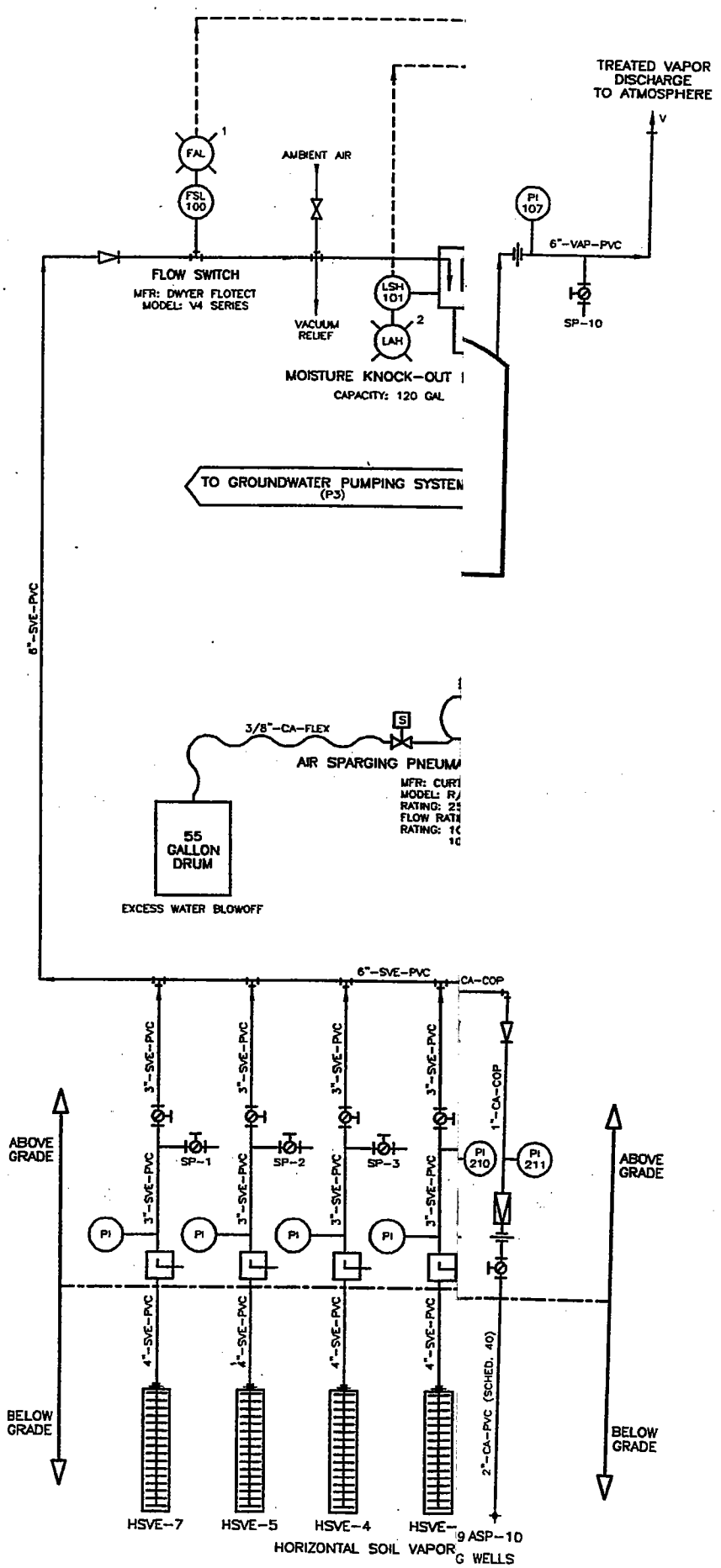
MR. MIKE'S MOBIL
1274 MAIN STREET
ASHBY, MASSACHUSETTS

SOIL VAPOR EXTRACTION, AIR SPARGING AND GROUNDWATER PUMPING SYSTEM

AS-BUILT PIPING & INSTRUMENTATION DIAGRAM LEGEND

DESIGNED BY:	DETAILED BY:	CHECKED BY:
JPS	EMD	JAC

DATE: 02/17/00	FILE: POCAPLEG.DWG
PROJECT NO.: 01130-0156	CONTRACT:
DRAWING:	REVISION:



NO.	DATE	BY	REVISION

ALARMS

1. LOW FLOW – SOIL VAPOR EXTRACTION BLOWER
2. HIGH LEVEL – MOISTURE SEPARATOR
3. HIGH PRESSURE – INLET OF PARTICLE FILTERS
4. LOW AIR PRESSURE – COMPRESSOR

APPROVALS

	SIGNATURE	DATE
REVIEW ENGR:		
PROJECT ENGR:		
PROJECT MGR:		
CLIENT:		

IT CORPORATION
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100 RIVER RIDGE DRIVE
NORWOOD, MA. 02062
(781)769-7600

MR. MIKE'S MOBIL
1274 MAIN STREET
ASHBY, MASSACHUSETTS

SOIL VAPOR EXTRACTION, AIR SPARGING AND GROUNDWATER PUMPING SYSTEM

AS BUILT - PIPING AND INSTRUMENTATION DIAGRAM SOIL VAPOR EXTRACTION AND AIR SPARGING SYSTEM

DESIGNED BY: JPS	DETAILED BY: EMD/JC	CHECKED BY: JAC
DATE: 02/24/00	FILE: POCA-PD1	
PROJECT NO.: 01130-0156	CONTRACT:	

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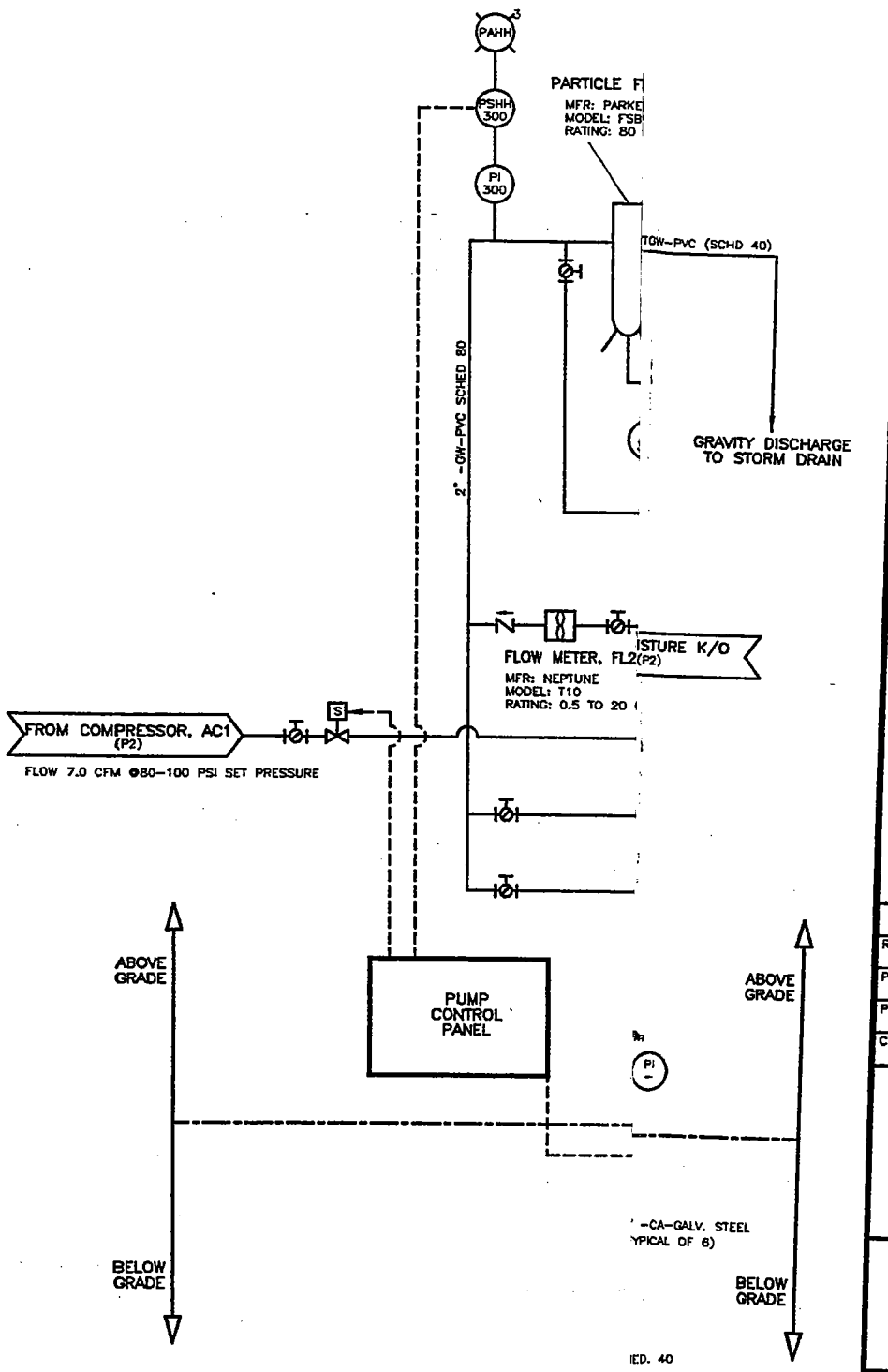

NO.	DATE	BY	REVISION

ALARMS

1. LOW FLOW – SOIL VAPOR EXTRACTION BLOWER
2. HIGH LEVEL – MOISTURE SEPARATOR
3. HIGH PRESSURE – INLET OF PARTICLE FILTERS
4. LOW AIR PRESSURE – COMPRESSOR

APPROVALS

SIGNATURE	DATE
REVIEW ENGR:	
PROJECT ENGR:	
PROJECT MGR:	
CLIENT:	

IT CORPORATION
A Member of The IT Group

100 RIVER RIDGE DRIVE
NORWOOD, MA. 02062 (781)769-7600

MR. MIKE'S MOBIL
1274 MAIN STREET
ASHBY, MASSACHUSETTS

SOIL VAPOR EXTRACTION, AIR SPARGING AND GROUNDWATER PUMPING SYSTEM

AS - BUILT PIPING & INSTRUMENTATION DIAGRAM - GROUNDWATER PUMPING SYSTEM

DESIGNED BY: JPS	DETAILED BY: EMD/JC	CHECKED BY: JAC
DATE: 02/24/00	FILE: POCA-PD2	
PROJECT NO.: 01130-0156	CONTRACT:	

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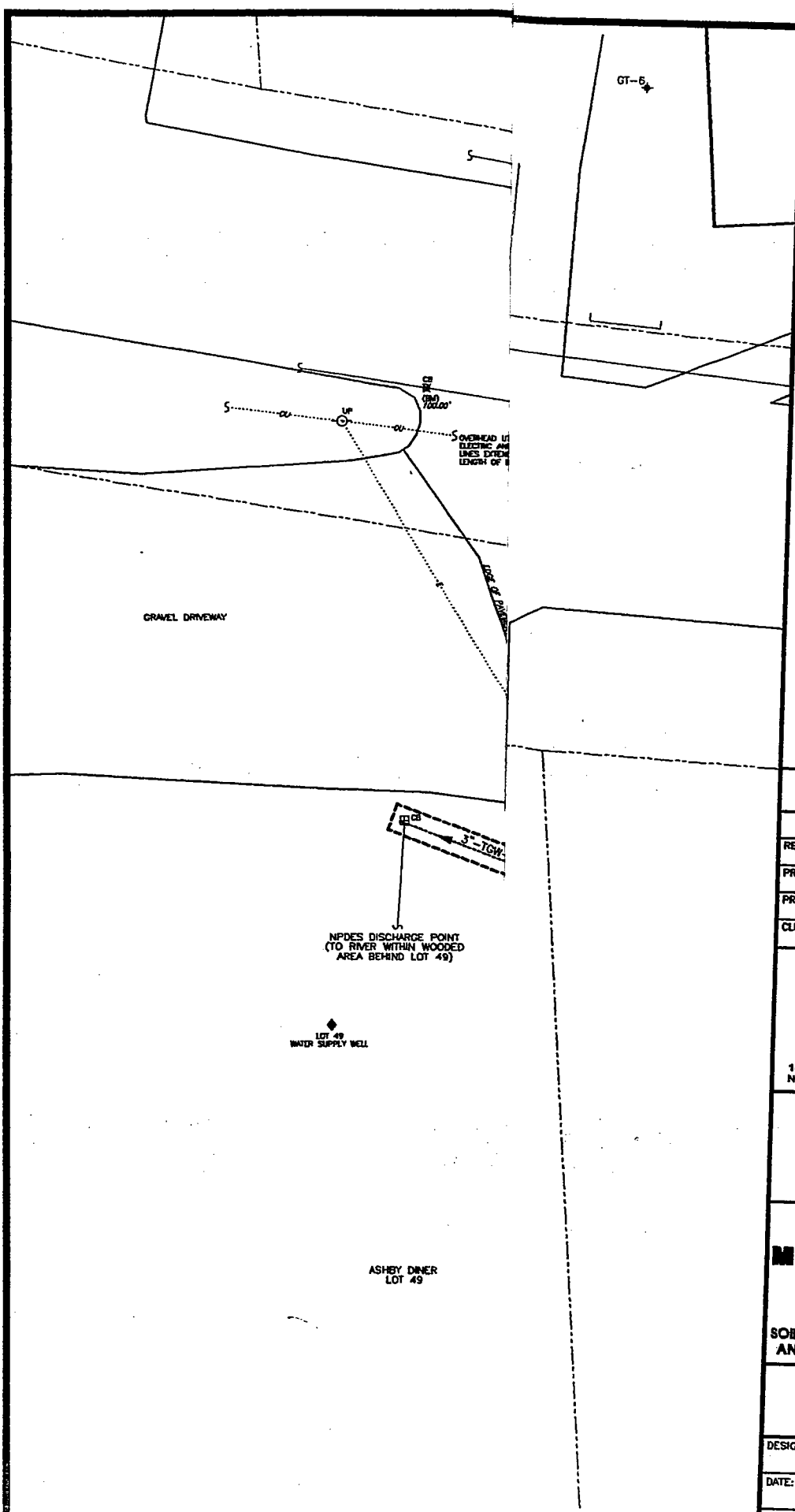

NO.	DATE	BY	REVISION

LEGEND

- SOIL BORING LOCATION
- OVERBURDEN MONITORING WELL
- BEDROCK MONITORING WELL
- DESTROYED MONITORING WELL
- PIEZOMETER
- OVERBURDEN WATER SUPPLY WELL
- BEDROCK WATER SUPPLY WELL
- ABANDONED BEDROCK SUPPLY WELL
- WATER SUPPLY WELL ON PROPERTY (LOCATION NOT CONFIRMED)
- EXISTING SVE RISER/CLEANOUT
- EXISTING AIR SPARGE POINT
- BEDROCK PUMPING WELL

NOTES
1. AIR SPARGE ESTIMATED RADIUS OF INFLUENCE = 10'
2. HORIZONTAL SVE TRENCH 2 FT. WIDTH, 1.5 FT. DEPTH, WITH 4-INCH DIAMETER RISERS/CLEANOUTS AS SHOWN, EXCEPT HSVE-1, WHICH IS CONNECTED BELOW GRADE.

- UNDERGROUND SVE PIPING
- UNDERGROUND WATER PIPING
- TREATED GROUNDWATER PIPING
- UNDERGROUND AIR SPARGE PIPING
- UNDERGROUND COMBINED TRENCH
- FORMER UST EXCAVATED JULY 1988
- CB CATCH BASIN AND DRAINAGE LINE
- MH MANHOLE
- UTILITY POLE
- UNDERGROUND DRAINAGE LINE
- PROPERTY LINE
- OV OVERHEAD UTILITY LINE
- E ELECTRIC LINE
- S SEPTIC SYSTEM LINE

ELEVATIONS BENCHMARK IS RELATIVE TO ARBITRARY DATUM: CATCH BASIN (BM) X = 100.00'

MAP SOURCES: 1) TOWN OF ASHBY, MA ASSESSORS MAPS NO. 6 AND 8 (PREPARED BY CARTOGRAPHIC ASSOCIATES, INC. REVISED TO 1/1/96); 2) MASS. DOT DRAWINGS OF DETAILS (SHEETS 11 AND 12) DATED 1945; 3) SITE SHEETS 11 AND 12) DATED 1945; 3) SITE WELL LOCATION PLAN PREPARED BY HIDELL-EYSTER & ASSOC., INC. 9/10/86; 4) SITE PLAN OF MR. MIKE'S FOOD MART PROVIDED BY PETERBOROUGH OIL CO., INC. 2/1996; 5) FIELD MEASUREMENTS AND OBSERVATIONS BY IT CORP. PERSONNEL; 5) USGS ASHBURNHAM TOPOGRAPHIC QUADRANGLE (1969); 6) LOCATION AND IDENTIFICATION OF AREA RESIDENTS' MAP PREPARED BY HIDELL-EYSTER TECHNICAL SERVICES, INC., 1/25/95.

10 0 10 20
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APPROVALS

SIGNATURE	DATE
REVIEW ENGR:	
PROJECT ENGR:	
PROJECT MGR:	
CLIENT:	

IT CORPORATION
A Member of The IT Group

100 RIVER RIDGE DRIVE
NORWOOD, MA. 02062
(781)769-7600

MR. MIKE'S MOBIL
1274 MAIN STREET
ASHBY, MASSACHUSETTS

SOIL VAPOR EXTRACTION, AIR SPARGING AND GROUNDWATER PUMPING SYSTEM

AS-BUILT SITE PLAN

DESIGNED BY:	DETAILED BY:	CHECKED BY:
JPS	EMD/JC/DAD	JAC

DATE:	FILE:
02/24/00	0156-SIT3

PROJECT NO.:	CONTRACT:
11300156	

THIS DRAWING AND ANY ATTACHMENTS ("DRAWINGS"), HAVE BEEN PRODUCED FOR THE SOLE USE OF THE RECIPIEN AND MUST NOT BE USED, REUSED, REPRODUCED, MODIFIED OR COPIED ("USE") IN ANY MANNER WITHOUT PRIOR

FORM 1 GENERAL INFORMATION

ATTACHMENT A
SECTION XII. NATURE OF BUSINESS

NATURE OF BUSINESS / BRIEF DESCRIPTION OF PROJECT

Peterborough Oil Company, Inc. (POC), 665 North Main Street, Leominster, MA has been identified as the Potentially Responsible Party (PRP) by the Massachusetts Department of Environmental Protection (MADEP) for petroleum impacts at Mr. Mikes Mobil, 1274 Main Street, Ashby, MA (Figure 1).

The subject site is an operating petroleum retail facility that includes a small convenience store, four gasoline underground storage tanks (UST) and one dispenser island. The convenience store contains two inactive automotive repair bays currently used for inventory storage and office space. In July 1986, the MADEP was informed that a possible release of gasoline to the environment was discovered during excavation/removal activities of UST previously in service. Subsequent investigations indicate the release impacted soil and groundwater at the site. Evidence of hydrocarbon impact to drinking water supply wells at residential/commercial properties in the site vicinity has also been documented. The subject site and surrounding properties (with point of entry treatment systems currently maintained by POC) are shown on Figure 2.

The site was assigned Release Tracking Number 2-0000011 and classified as a Tier 1A Disposal Site (Permit # 84825) by the MADEP in February 1994. A Phase III Remedial Action Plan (RAP) was completed in August 1998 based upon results of investigations performed following tier classification. The purpose of a Phase III RAP is to screen remedial options and select an option that is reasonably likely to lead to a Permanent Solution /No Significant Risk in accordance with the Massachusetts Contingency Plan (MCP). Impacted groundwater recovery, in conjunction with soil vapor extraction (SVE) and air sparging, was identified as an effective method for remediating the site. A Phase IV Remedial Implementation Plan (RIP) outlining the design of the remedial action alternative selected was submitted to the MADEP in February 1999.

The remediation system was installed during April through July 1999, and was activated on August 2, 1999. Groundwater is pumped from bedrock aquifer recovery well GT-4B. Water captured by the SVE system is also treated utilizing pumps in sumps HSVE-2 through HSVE-7. The groundwater treatment system includes two bag filters followed by two 500-pound liquid phase granular activated carbon (LGAC) units located within the equipment container. Treated groundwater is discharged to a catch basin that ultimately discharges to Willard Brook (see Drawing Y1). The configuration of the groundwater treatment system and other related equipment are depicted on Drawings P2 and P3.

Treated groundwater discharged from the system is regulated under a National Pollution Discharge Elimination System (NPDES) Exclusion Permit which currently requires sampling and analysis of process and discharge water on a monthly basis. Monitoring reports have been submitted to the United States Environmental Protection Agency under a separate cover in accordance with conditions specified in the NPDES Permit Exclusion.

FORM 2C APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER

ATTACHMENT B
SECTION IV. IMPROVEMENTS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 1
JOHN F. KENNEDY FEDERAL BUILDING
BOSTON, MASSACHUSETTS 02203-0001

June 29, 1999

Mr. Tim Petersen
Peterborough Oil Company
665 North Main Street
Leominster, MA 01453

Re: NPDES Permit Exclusion for contaminated water dewatering at 1274 Main Street in Ashby, MA.
NPDES Permit Exclusion Reference #99-193

Dear Mr. Petersen:

Based on information provided by Mr. Jeffrey Shaw, of IT Corporation, (IT), Inc. I grant you, pursuant to Title 40 of the Code of Federal Regulations, Part 122.3(d), exclusion from the requirement for a permit under the National Pollutant Discharge Elimination System (NPDES), in order that bed rock groundwater pump and treatment system may begin in a timely fashion at the referenced location.

Subject to other controls that may be established by the State of Massachusetts, and the Town of Ashby, you are authorized to discharge up to 20 gallons of treated water per minute, through a system consisting of groundwater depression leading to a granular activated carbon filtration system (sized appropriately for the anticipated flow), prior to discharge into a storm water drainage system leading to an unnamed brook leading to Willard Brook. The discharge must be done in accordance with the following provisions:

1. No discharge of oil, sufficient to cause a sheen (as defined in 40 CFR 110), occurs to the drainage system. The discharge of a sheen of oil, or gasoline, constitutes an oil spill and must be reported, immediately, to the National Response Center (NRC) at (800) 424-8802.

2. Security provisions are maintained to assure that system failure, vandalism, or other incident will be addressed in a timely fashion, preventing the loss of oil or contaminated water to the storm water drainage system.

3. Sampling and analysis, in accordance with EPA Methods, must be performed for the following chemicals with the listed limits being applicable:

Total Petroleum Hydrocarbons	5 ppm
Benzene	5 ppb

continued

Toluene	*
Ethyl Benzene	*
Xylenes	*
The total for Benzene, Toluene, Ethyl Benzene, and Xylenes (BTEX)	----- 100 ppb
Methyl Tertiary Butyl Ether	70 ppb

Laboratory samples must be obtained from the influent to treatment, and to the effluent to the drainage system on the first and every other day of discharge during the first week of operations. During the balance of the first month, sampling must be at least weekly. After the first month, monthly sampling must be performed.

Analytical Reports, with quality control information, are to be reported to the DEP Project Manager, and to the undersigned NPDES permit exclusion writer of this office, by the 28th of April, July, October, and January, for the preceding three-month period, using the NPDES exclusion reference number assigned above.

4. You, or your representative, provide 24 hours notice of the anticipated start-up of discharge, if start-up occurs after July 6, 1999.

5. You, or your contractor, maintain copies of all analytical reports, and quality control information for a period of 3 years from the date of the report.

Because the purpose of this exclusion from the regulations is to allow for remediation of contaminated groundwater, the exclusion will be in effect for four (4) months from system start-up. This exclusion may also be adjusted verbally if operational conditions require (ie; equipment failure or weather).

After four months of discharge, it is expected that an application for a permanent NPDES wastewater permit will be submitted. Permanent NPDES permit application materials may be obtained from Ms. Olga Vergara of EPA's Boston office. She may be contacted at (617) 918-1519.

If any questions should arise, please do not hesitate to contact me at (617) 918-1235.

Sincerely,

Scott R. Pellerin
On-Scene Coordinator
Emergency Response Section

cc:	J. Downing	EPA-MA Permits
	B. Kubit	MA DEP-OWM
	N. Child	MA DEP-BWSC-Central Region
	J. Shaw	IT

FORM 2C APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER

ATTACHMENT C
SECTION V. INTAKE AND EFFLUENT CHARACTERISTICS

TABLE 1
AQUEOUS PHASE SYSTEM SAMPLING SUMMARY
PETERBOROUGH OIL COMPANY, MR. MIKES MOBIL
1274 MAIN STREET, ASHBY, MA

Date	Sample ID	EPA Method 8021B (ug/L)								EPA Method 8100M (mg/L)	Comments
		Methyl-t-butyl ether (MTBE)	Benzene	Toluene	Ethylbenzene	mp-Xylene	0-Xylene	Total BTEX	Total BTEX & MTBE	TPH	
NPDES Exclusion Discharge Limit		70.0	5.0	—	—	—	—	100.0		5.0	
09-Aug-99	LGAC-1 INF	20.0	<1	<1	<1	<1	<1	BDL	20.0	<0.5	
09-Aug-99	LGAC-1 EFF	<10	<1	<1	<1	<1	<1	BDL	BDL	<0.5	
09-Aug-99	LGAC-2 EFF	<10	<1	<1	<1	<1	<1	BDL	BDL	<0.5	
11-Aug-99	LGAC-1 INF	70.0	<1	<1	<1	<1	<1	BDL	70.0	<0.5	
11-Aug-99	LGAC-2 EFF	<10	<1	<1	<1	<1	<1	BDL	BDL	<0.5	
16-Aug-99	LGAC-1 INF	160.0	<1	5.0	<1	4.0	<1	9.0	169.0	0.6	
16-Aug-99	LGAC-2 EFF	<10	<1	<1	<1	<1	<1	BDL	BDL	<0.5	
23-Aug-99	LGAC-1 INF	160.0	<1	<1	<1	<1	<1	BDL	160.0	<0.5	
23-Aug-99	LGAC-2 EFF	<10	<1	<1	<1	<1	<1	BDL	BDL	<0.5	
30-Aug-99	LGAC-1 INF	170.0	<1	<1	<1	<1	<1	BDL	170.0	<0.5	
30-Aug-99	LGAC-2 EFF	<10	<1	<1	<1	<1	<1	BDL	BDL	<0.5	
										<0.5	
07-Sep-99	LGAC-1 INF	140.0	<1	<1	<1	<1	<1	BDL	140.0	<0.5	
07-Sep-99	LGAC-1 EFF	20.0	<1	<1	<1	<1	<1	BDL	20.0	<0.5	
07-Sep-99	LGAC-2 EFF	<10	<1	<1	<1	<1	<1	BDL	BDL	<0.5	
15-Oct-99	LGAC-1 INF	110.0	<1	<1	<1	<1	<1	BDL	110.0	5.1	Primary carbon rebedded
15-Oct-99	LGAC-1 EFF	<10	<1	<1	<1	<1	<1	BDL	BDL	<0.5	
15-Oct-99	LGAC-2 EFF	<10	<1	<1	<1	<1	<1	BDL	BDL	<0.5	
23-Nov-99	LGAC-1 INF	80.0	<1	<1	<1	<1	<1	BDL	80.0	<0.5	
23-Nov-99	LGAC-1 EFF	<10	<1	<1	<1	<1	<1	BDL	BDL	<0.5	
23-Nov-99	LGAC-2 EFF	<10	<1	<1	<1	<1	<1	BDL	BDL	<0.5	
22-Dec-99	LGAC-1 INF	90.0	<1	<1	<1	<1	<1	BDL	90.0	NA	TPH sample container broken
22-Dec-99	LGAC-1 EFF	<10	<1	<1	<1	<1	<1	BDL	BDL	<0.5	
22-Dec-99	LGAC-2 EFF	<10	<1	<1	<1	<1	<1	BDL	BDL	<0.5	
11-Jan-00	LGAC-1 INF	100.0	2.0	11.0	11.0	87.0	38.0	149.0	249.0	1.7	
11-Jan-00	LGAC-1 EFF	40.0	<1	<1	<1	<1	<1	BDL	40.0	<0.5	
11-Jan-00	LGAC-2 EFF	<10	<1	<1	<1	<1	<1	BDL	BDL	<0.5	

Notes:
NPDES-National Pollutant Discharge Elimination System
µg/L-Microgram per liter
mg/L-Milligrams per liter
LGAC-Liquid phase granular activated carbon
NA - Not analyzed for this parameter.
NS - Not sampled.
BDL-Below detection limits

LGAC-1 INF- Influent water sample taken before primary liquid granular activated carbon unit.
LGAC-1 EFF- Midfluent water sample taken between liquid granular activated carbon units.
LGAC-2 EFF- Effluent water sample taken after secondary liquid granular activated carbon unit.

p:\operations\poc\ashby\draft\data\ashby system operations summary

eastern analytical

professional laboratory services

Jeff Shaw
IT Corp. (Nor)
100 River Ridge Drive
Norwood , MA 02062

Subject: Laboratory Report

Eastern Analytical, Inc. ID:	19958
Client Identification:	POC Ashby 11300156 23052000
Date Received:	1/11/2000

Dear Mr. Shaw :

Enclosed please find the laboratory report for the above identified project. All analyses were subjected to rigorous quality control measures to assure data accuracy. Unless otherwise stated, all holding times, preservation techniques, container types, and sample conditions adhered to EPA Protocol.

The following standard abbreviations and conventions apply to all EAI reports:

Solid samples are reported on a dry weight basis, unless otherwise noted
< = "less than" followed by the reporting limit
TNR = Testing Not Requested
ND = None Detected, no established detection limit
RL = Reporting Limits

If you have any questions regarding the results contained within, please feel free to directly contact me, the department supervisor, or the analytical chemist who performed the testing in question. Unless otherwise requested, we will dispose of the sample(s) 30 days from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,

Susan C. Uhler, Lab Director

1/26/2000
Date

LABORATORY REPORT

Eastern Analytical, Inc. ID#: 19958

Client: **IT Corp. (Nor)** Client Designation: **POC Ashby 11300156 23052000**

Sample ID:	INF-1	EFF-1	EFF-2
Analytical Type:	Sample	Sample	Sample
Matrix:	aqueous	aqueous	aqueous
Date Sampled:	1/11/00	1/11/00	1/11/00
Date Received:	1/11/00	1/11/00	1/11/00
Units:	mg/l	mg/l	mg/l
Date of Extraction/Prep:	1/13/00	1/13/00	1/13/00
Date of Analysis:	1/13/00	1/13/00	1/13/00
Analyst:	KH	KH	KH
Method:	8100 Mod	8100 Mod	8100 Mod
Dilution Factor:	1	1	1
TPH (C9-C40)	**1.7**	< 0.5	< 0.5

LABORATORY REPORT

Eastern Analytical, Inc. ID#: 19958

Client: **IT Corp. (Nor)** Client Designation: **POC Ashby 11300156 23052000**

Sample ID:	INF-1	EFF-1	EFF-2
Analytical Type:	Sample	Sample	Sample
Matrix:	aqueous	aqueous	aqueous
Date Sampled:	1/11/00	1/11/00	1/11/00
Date Received:	1/11/00	1/11/00	1/11/00
Units:	µg/l	µg/l	µg/l
Date of Analysis:	1/20/00	1/20/00	1/20/00
Analyst:	VG	VG	VG
Method:	8021B	8021B	8021B
Dilution Factor:	1	1	1
Methyl-t-butyl ether(MTBE)	**100**	**40**	< 10
Benzene	**2**	< 1	< 1
Toluene	**11**	< 1	< 1
Ethylbenzene	**11**	< 1	< 1
mp-Xylene	**87**	< 1	< 1
o-Xylene	**38**	< 1	< 1

eastern analytical, inc. 25 Chenell Drive / Concord, NH 03301 / TEL (603) 228-0525 / 1-800-287-0525
FAX (603) 228-4591 / E-Mail : front_office@eailabs.com

19958

1 of 1

CHAIN-OF-CUSTODY RECORD

REQUESTED ANALYSES

SAMPLE I.D.	SAMPLING DATE / TIME	MATRIX (A - Air, S - Soil, GW - Ground W., SW - Surface W., DW - Drinking W., WW - Waste W., ☐ Other)	G-Grab, C-Comp	☐ 8260B ☐ 524.2 ☐ 8260B plus 10 TICS	☐ 8260B-TCL (8240 list) ☐ 624	☐ 8021B ☐ 601 / 602	☐ 8021B-Halos (8010 list) ☐ 601	☒ 8021B-BTEX (8020 list) ☐ 602 MTBE	☐ MA VPH ☐ ME GRO	☐ 8015B GRO	☐ MA EPH ☐ ME DRO ☐ 8015B DRO	TPH 8100 M ☐ LI ☐ LII ☐ LIII	☐ 8270 ☐ 625	☐ ABN ☐ A ☐ BN ☐ PAH	☐ 8081/8082 ☐ 608 ☐ PCBs ☐ Pesticides	Dissolved Metals (list below)	Total Metals (list below)	TCLP Metals (list below)	☐ TSS ☐ TDS ☐ TS	☐ F ☐ Cl ☐ SO_4 ☐ NO_2 ☐ NO_3	☐ pH ☐ Spec. Con. ☐ BOD	☐ T. Alk ☐ Carb. Alk ☐ Bi. Alk	☐ TKN ☐ NH_3 ☐ T. Phos.	☐ COD ☐ TOC ☐ Phenols	☐ Oil & Grease ☐ TPH (list method below)	☐ CN ☐ Formaldehyde	☐ T. Coli ☐ E. Coli ☐ F. Coli ☐ F. Strep	# Of Containers	NOTES
~~[illegible]~~																														
INF-1	1-11-00 0945	GW						2				1																	3	
EFF-1	1-11-00 1055	GW						2				1																	3	
EFF-2	1-11-00 1110	GW						2				1																	3	
INF	1/11/00 1145	A						2																						
EFF	1/11/00 1130	A						2																						

RVATIVE : H-HCl ; N-HNO_3 ; S-H_2SO_4 ; Na-NaOH

CT MANAGER : Jeff Shaw
.NY : IT CORP.
SS : 100 River Ridge
Norwood STATE Ma ZIP 02062
: (781) 769 7600 EXT :
781 769 7991
:
CT NAME : POC Ashby
CT # 11300156 23052000
☐ NH ☐ MA ☐ ME ☐ VT OTHER
historically contaminated

NOTES : (i.e. Special Detection Limits, Billing Info. if different)

Direct Bill To:
POC
P.O. Box 787
Leominster Ma 01453

RESULTS NEEDED BY
(enter preferred date) :
(Guaranteed rapid turnaround needs pre-approval)

QA / QC Reporting Level
☐ A ☐ B ☐ C

Reporting Options :
☐ Hard Copy ☐ Fax
Electronic :
☐ E-Mail ☐ Disk

Quote #
P.O. #
Sampler(s) : Wayne Holt

Relinquished by	Date	Time	Received by
Wayne Holt	1/11/00	1200	W. H. Carpenter
W. H. Carpenter	1/11/00	1345	D. Kelly 1/11/00

FOR LAB USE ONLY
Adhered to EPA Protocol
☐ Yes ☐ No (see attached)
Cold?
☐ Yes ☐ No

(WHITE : *Original* YELLOW : *Lab Files* PINK : *Project Manager*)

eastern analytical

professional laboratory services

Mike Dacey
Fluor Daniel GTI
100 River Ridge Drive
Norwood , MA 02062

Subject: Laboratory Report

Eastern Analytical, Inc. ID: 13987 FDLMA
Client Identification: POC Ashby 011300156
Date Received: 9/16/98

Dear Mr. Dacey:

Enclosed please find the laboratory report for the above identified project. All analyses were subjected to rigorous quality control measures to assure data accuracy. Unless otherwise stated, all holding times, preservation techniques, container types and sample condition adhered to EPA protocol.

The following standard abbreviations and conventions apply throughout all Eastern Analytical, Inc. reports:

- < = "less than" followed by the detection limit
- TNR = Testing Not Requested
- ND = None Detected, no established detection limit
- BRL = Below Reporting Limits

If you have any questions regarding the results contained within, please feel free to directly contact me, the department supervisor, or the analytical chemist who performed the testing in question. Unless otherwise requested, we will dispose of the sample(s) 30 days from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,

Will Brunkhorst (MJ) 9/30/98

Will Brunkhorst, President Date

LABORATORY REPORT

Eastern Analytical, Inc. ID#: 13987

Client: **Fluor Daniel GTI** Client Designation: **POC Ashby 011300156**

Sample ID: GT-4B

Analytical Type: Sample
Matrix: aqueous
Date Sampled: 9/15/98
Date Received: 9/16/98

		Analytical Matrix	Units	Date of Analysis	Method	Analys
Iron	2.4	AqDis	mg/l	9/21/98	200.7	RTW
Manganese	0.37	AqDis	mg/l	9/21/98	200.7	RTW
Iron	10	AqTot	mg/l	9/21/98	200.7	RTW
Manganese	0.44	AqTot	mg/l	9/21/98	200.7	RTW
Total Hardness (as CaCO3)	73	AqTot	mg/l	9/21/98	200.7	RTW

LABORATORY REPORT

Eastern Analytical, Inc. ID#: 13987

Client: **Fluor Daniel GTI** Client Designation: **POC Ashby 011300156**

Sample ID:	GT-4B				
Analytical Type:	Sample				
Matrix:	aqueous				
Date Sampled:	9/15/98				
Date Received:	9/16/98				
		Units	**Date of Analysis**	**Method**	**Analys**
Chloride	63	mg/l	9/18/98	325.2	LO
Alkalinity Total as CaCO3	35	mg/l	9/28/98	310.1	KL

Approved By: Lorraine Olashaw Inorganics Supervisor Lorraine Olashaw 9/29/98

eastern analytical, inc.
25 Chenell Drive / Concord, NH 03301 / TEL (603) 228-0525 / 1-800-287-0525
FAX (603) 228-4591 / E-Mail : front_office@eailabs.com

13987

e 1 of 1

CHAIN-OF-CUSTODY RECORD

REQUESTED ANALYSES

SAMPLE I.D.	SAMPLING DATE / TIME	MATRIX (A - Air, S - Soil, GW - Ground W., SW - Surface W., DW - Drinking W., WW - Waste W., ☐ Other)	G-Grab, C-Comp	☐ 8260B ☐ 524.2 ☐ 8260B plus 10 TICS	☐ 8260B-TCL (8240 list) ☐ 624	☐ 8021B ☐ 601 / 602	☐ 8021B-Halos (8010 list) ☐ 601	☐ 8021B-BTEX (8020 list) ☐ 602	☐ MA VPH ☐ ME GRO ☐ 8015B GRO	☐ MA EPH ☐ ME DRO ☐ 8015B DRO	TPH 8100 M ☐ LI ☐ LII ☐ LIII	☐ 8270 ☐ 625 ☐ ABN ☐ A ☐ BN ☐ PAH	☐ 8081/8082 ☐ 608 ☐ PCBs ☐ Pesticides	Dissolved Metals (list below) Iron/Manganese	Total Metals (list below) Iron/Manganese	TCLP Metals (list below)	☐ TSS ☐ TDS ☐ TS	☐ F ☐ Cl ☐ SO4 ☐ NO2 ☐ NO3	☐ pH ☐ Spec. Con. ☐ BOD	☐ T. Alk ☐ Carb. Alk ☐ Bi. Alk	☐ TKN ☐ NH3 ☐ T. Phos.	☐ COD ☐ TOC ☐ Phenols	☐ Oil & Grease ☐ TPH (list method below)	☐ CN ☐ Formaldehyde	☐ T. Coli ☐ E. Coli ☐ F. Coli ☐ F Strep	Alkalinity	Hardness Calcium/Magnesium	Chloride		# Of Containers	NOTES
GT-4B	9/15/98 11:45	GW	G											1	1											1	1	1		3	
														N	N												N				

ERVATIVE : H-HCl ; N-HNO3 ; S-H2SO4 ; Na-NaOH

ECT MANAGER : Mike Dacey
ANY : Fluor Daniel GTI
ESS : 100 River Ridge Dr.
Norwood STATE MA ZIP 02062
E : 781 769-7600 EXT :
(781) 769-7785
. :
CT NAME : POC Ashby
CT # 01130-0156
: ☐ NH ☑ MA ☐ ME ☐ VT OTHER
historically contaminated ☐ Compliance Testing

NOTES : (i.e. Special Detection Limits, Billing Info. if different)
Direct Bill to Peterborough Oil Co.
field filtered dissolved Fe & Mn analysis

RESULTS NEEDED BY
(enter preferred date) :
(Guaranteed rapid turnaround needs pre-approval)

QA / QC Reporting Level
☐ A ☐ B ☐ C

Reporting Options :
☑ Hard Copy ☑ Fax
Electronic :
☐ E-Mail ☐ Disk

Quote #
P.O. #
Sampler(s) : Bill Damers

FOR LAB USE ONLY
Adhered to EPA Protocol
☐ Yes ☐ No (see attached)
Cold ?
☑ Yes ☐ No

Relinquished by	Date	Time	Received by
[signature]	9/16/98	09:00	[signature] 0940
[signature]	9/18/98	1130	[signature] 9/16/98 1205

(WHITE - Original YELLOW

ATTACHMENT B

NPDES PERMIT EXCLUSION #99-193

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 1
JOHN F. KENNEDY FEDERAL BUILDING
BOSTON, MASSACHUSETTS 02203-0001

June 29, 1999

Mr. Tim Petersen
Peterborough Oil Company
665 North Main Street
Leominster, MA 01453

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NPDES Permit Exclusion Reference #99-193

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Subject to other controls that may be established by the State of Massachusetts, and the Town of Ashby, you are authorized to discharge up to 20 gallons of treated water per minute, through a system consisting of groundwater depression leading to a granular activated carbon filtration system (sized appropriately for the anticipated flow), prior to discharge into a storm water drainage system leading to an unnamed brook leading to Willard Brook. The discharge must be done in accordance with the following provisions:

1. No discharge of oil, sufficient to cause a sheen (as defined in 40 CFR 110), occurs to the drainage system. The discharge of a sheen of oil, or gasoline, constitutes an oil spill and must be reported, immediately, to the National Response Center (NRC) at (800) 424-8802.

2. Security provisions are maintained to assure that system failure, vandalism, or other incident will be addressed in a timely fashion, preventing the loss of oil or contaminated water to the storm water drainage system.

3. Sampling and analysis, in accordance with EPA Methods, must be performed for the following chemicals with the listed limits being applicable:

Total Petroleum Hydrocarbons	5 ppm
Benzene	5 ppb

continued

Toluene	*
Ethyl Benzene	*
Xylenes	*
The total for Benzene, Toluene, Ethyl Benzene, and Xylenes (BTEX)	----- 100 ppb
Methyl Tertiary Butyl Ether	70 ppb

Laboratory samples must be obtained from the influent to treatment, and to the effluent to the drainage system on the first and every other day of discharge during the first week of operations. During the balance of the first month, sampling must be at least weekly. After the first month, monthly sampling must be performed.

Analytical Reports, with quality control information, are to be reported to the DEP Project Manager, and to the undersigned NPDES permit exclusion writer of this office, by the 28th of April, July, October, and January, for the preceding three-month period, using the NPDES exclusion reference number assigned above.

4. You, or your representative, provide 24 hours notice of the anticipated start-up of discharge, if start-up occurs after July 6, 1999.

5. You, or your contractor, maintain copies of all analytical reports, and quality control information for a period of 3 years from the date of the report.

Because the purpose of this exclusion from the regulations is to allow for remediation of contaminated groundwater, the exclusion will be in effect for four (4) months from system start-up. This exclusion may also be adjusted verbally if operational conditions require (ie; equipment failure or weather).

After four months of discharge, it is expected that an application for a permanent NPDES wastewater permit will be submitted. Permanent NPDES permit application materials may be obtained from Ms. Olga Vergara of EPA's Boston office. She may be contacted at (617) 918-1519.

If any questions should arise, please do not hesitate to contact me at (617) 918-1235.

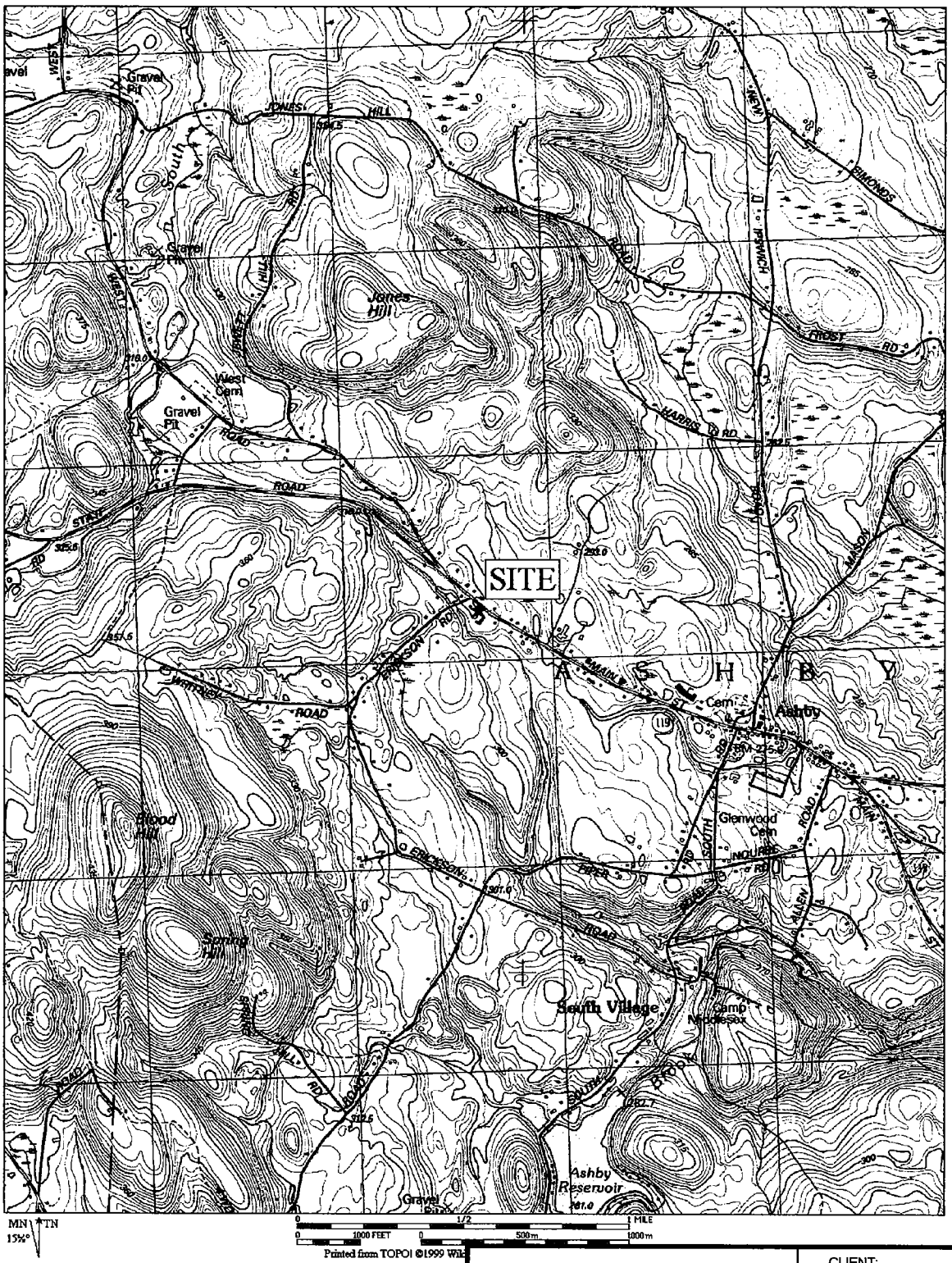
Sincerely,

Scott R. Pellerin
On-Scene Coordinator
Emergency Response Section

cc:	J. Downing	EPA-MA Permits
	B. Kubit	MA DEP-OWM
	N. Child	MA DEP-BWSC-Central Region
	J. Shaw	IT

ATTACHMENT C

CURRENT FIGURES



SOURCE:
USGS ASHBURNHAM, MA QUADRANGLE

N

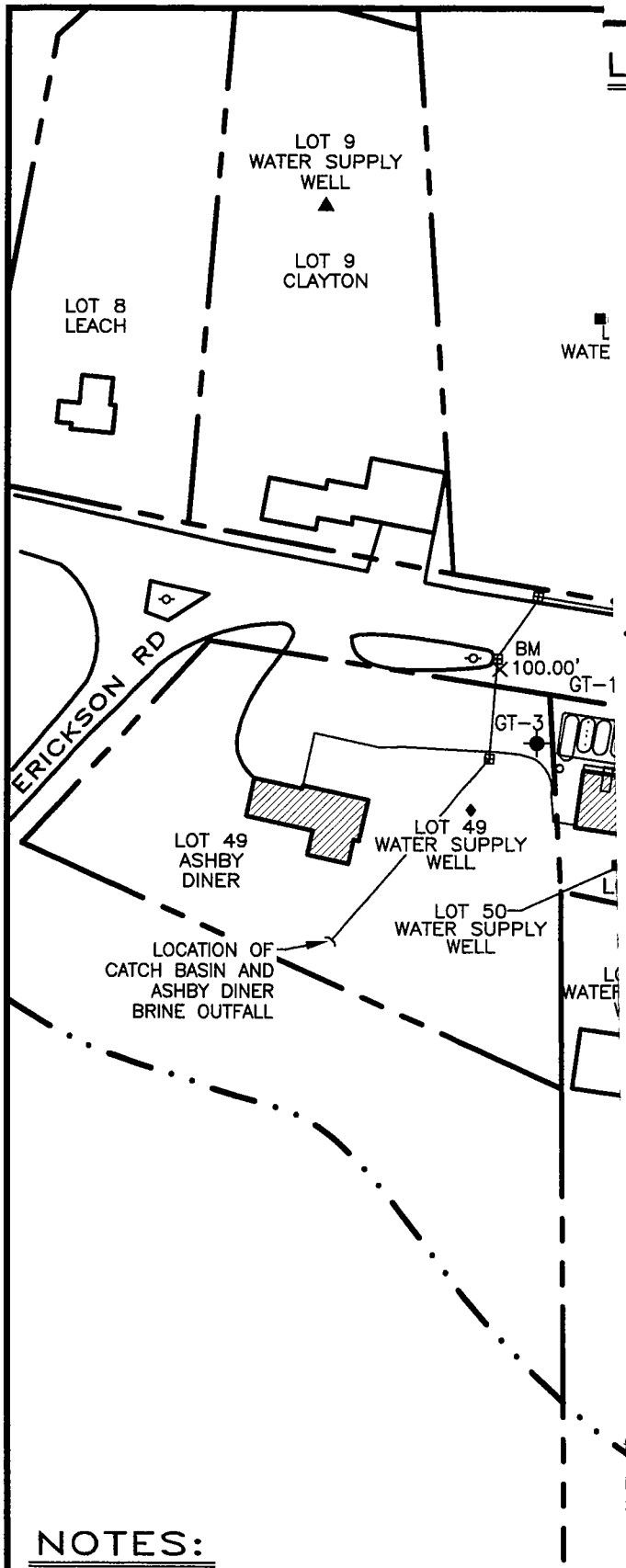
GHO Insight INC.

CLIENT:
Peterborough Oil Co.

PROJECT:
1274 Main Street
Ashby, MA 01431

SITE LOCUS

DESIGNED:		CHECKED:	APPROVED:	FIGURE:
AJ	AJ	ALM	MFD	1
SCALE:	DATE:	FILE NO.:	PROJECT NO:	
AS SHOWN	1/22/04	3255F	3255-000	



LEGEND

- SOIL BORING LOCATION
- OVERBURDEN MONITORING WELL
- BEDROCK MONITORING WELL
- DESTROYED MONITORING WELL
- PIEZOMETER
- OVERBURDEN WATER SUPPLY WELL
- BEDROCK WATER SUPPLY WELL
- ABANDONED BEDROCK SUPPLY WELL
- WATER SUPPLY WELL ON PROPERTY (LOCATION NOT CONFIRMED)
- EXISTING SVE RISER/CLEANOUT
- EXISTING AIR SPARGE POINT
- BEDROCK PUMPING WELL
- POINT OF ENTRY (POE) TREATMENT SYSTEMS CURRENTLY MAINTAINED BY PETERBOROUGH OIL COMPANY, INC.
- PROPERTY LINE
- CB — CATCH BASIN AND DRAINAGE LINE
- UTILITY POLE

0 100 200

APPROX. SCALE IN FEET

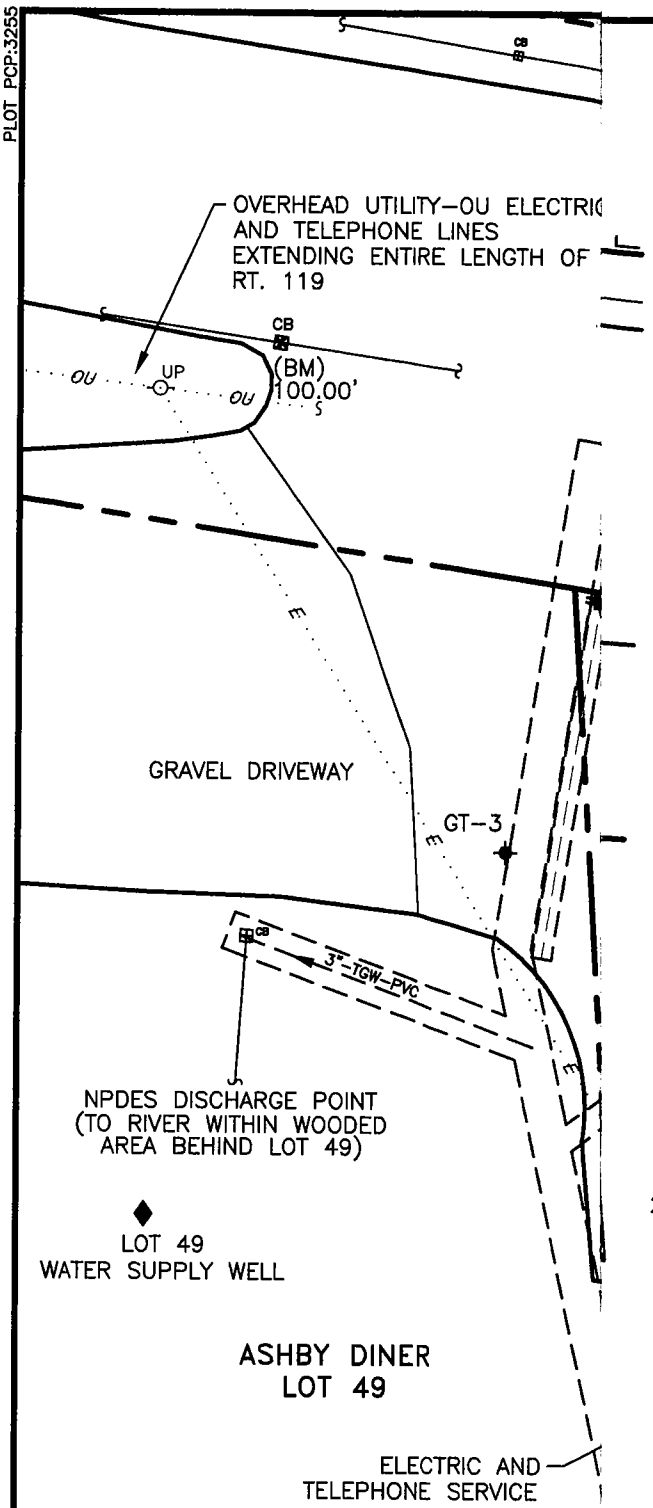
NOTES:

MAP SOURCES: 1) TOWN OF ASHBY, MA ASSESSORS MAPS NO. 6 AND CARTOGRAPHIC ASSOCIATES, INC., REVISED TO 1/1/96); 2) MASS. DOT UTILITY AND PROPERTY DETAILS (SHEETS 11 AND 12) DATED 1945; 3) PREPARED BY HIDELL-EYSTER & ASSOC., INC. 9/10/86; 4) SITE PLAN PROVIDED BY PETERBOROUGH OIL CO., INC., 2/1996; 5) FLUOR DANIE AND OBSERVATIONS; 5) USGS ASBURNHAM TOPOGRAPHIC QUADRANGLE IDENTIFICATION OF AREA RESIDENTS MAP PREPARED BY HIDELL-EYSTER 1/25/95. 7) ANALYTICAL RESULTS FROM 05/05/00 SAMPLING EVENT. PLAN, DATED 5/3/00.

CLIENT: PETERBOROUGH OIL COMPANY			
PROJECT: MR. MIKES MOBIL 1274 MAIN STREET, ASHBY MA			
SITE PLAN			
N: NMV	CHECKED: MFD	APPROVED: MFD	FIGURE NO.: 2
/10/04	FILE NO.: 3255-D03	PROJECT NO.: 3255-001	

PLOT DATE: 1-10-06
FILE: I:\3255-POC Ashby\3255d026.dwg

FILE NO:3255d020
XREF:XXX
PLOT PCP:3255



LEGEND

- OVERBURDEN MONITORING WELL
- BEDROCK MONITORING WELL
- EXISTING SVE RISER/CLEANOUT
- EXISTING AIR SPARGE POINT
- BEDROCK PUMPING WELL
- SOIL BORING LOCATION
- DESTROYED MONITORING WELL
- PIEZOMETER
- OVERBURDEN WATER SUPPLY WELL
- BEDROCK WATER SUPPLY WELL
- ABANDONED BEDROCK SUPPLY WELL
- WATER SUPPLY WELL ON PROPERTY
- UNDERGROUND SVE PIPING (NOT IN USE)
- UNDERGROUND WATER PIPING
- TREATED GROUNDWATER PIPING
- UNDERGROUND AIR SPARGE PIPING (NOT IN USE)
- 4' UNDERGROUND COMBINED TRENCH
- FORMER UST EXCAVATED JULY 1986
- CB CATCH BASIN AND DRAINAGE LINE
- OMH MANHOLE
- UTILITY POLE
- UNDERGROUND DRAINAGE LINE
- OU OVERHEAD UTILITY LINE
- E ELECTRIC LINE
- S SEPTIC SYSTEM LINE

ELEVATIONS BENCHMARK IS RELATIVE TO ARBITRARY DATUM: CATCH BASIN (BM) X = 100.00'

1. AIR SPARGE ESTIMATED RADIUS OF INFLUENCE = 10'
2. HORIZONTAL SVE TRENCH 2 FT. WIDTH, 1.5 FT. DEPTH, WITH 4–INCH DIAMETER RISERS/CLEANOUTS AS SHOWN. EXCEPT HSVE–1, WHICH IS CONNECTED BELOW GRADE.

0 20 40
APPROX. SCALE IN FEET

NOTES:

MAP SOURCES: 1) TOWN OF ASHBY, MA ASSESSORS MAPS N
CARTOGRAPHIC ASSOCIATES, INC., REVISED TO 1/1/96); 2) M
UTILITY AND PROPERTY DETAILS (SHEETS 11 AND 12) DATED 1
PREPARED BY HIDELL–EYSTER & ASSOC., INC. 9/10/86; 4) S
PROVIDED BY PETERBOROUGH OIL CO., INC., 2/1996; 5) FLU
AND OBSERVATIONS; 5) USGS ASBURNHAM TOPOGRAPHIC QUA
IDENTIFICATION OF AREA RESIDENTS MAP PREPARED BY HIDELL
1/25/95. 7) ANALYTICAL RESULTS FROM 05/05/00 SAMPLING
PLAN, DATED 5/3/00.

GHO Insight INC.

CLIENT: PETERBOROUGH OIL COMPANY

PROJECT: MR. MIKES MOBIL
1274 MAIN STREET, ASHBY MA

SOIL VAPOR EXTRACTION, AIR SPARGING AND GROUND WATER PUMPING SYSTEM

DRAWN:	CHECKED:	APPROVED:	FIGURE NO.:
NMV	JPS	MFD	3
DATE: 9/15/03	FILE NO.: 3255d020	PROJECT NO.: 3255–000	

3255 000 D020

ATTACHMENT D

SUMMARY OF AQUEOUS PHASE ANALYTICAL RESULTS AND MASS REMOVAL GRAPH

TABLE 1
AQUEOUS PHASE SYSTEM SAMPLING SUMMARY
MR. MIKE'S MOBIL
1274 MAIN STREET
ASHBY, MASSACHUSETTS
NPDES REFERENCE #99-193

		USEPA Method 8021B (ug/L) (NOTE: Samples after 5/15/01 by USEPA Method 8260B)									USEPA Method 8100M (mg/L) TPH	USEPA Method 8015 GRO (ug/L)	USEPA Method 160.2 (mg/L) TSS
Date	Sample ID	Methyl-t-butyl ether (MTBE)	Benzene	Toluene	Ethylbenzene	mp-Xylene	0-Xylene	Naphthalene	Total BTEX	Total BTEX & MTBE			
NPDES Exclusion Discharge Limit		70	5	---	---	---	---	---	100	---	5	5,000	---
9-Aug-99	LGAC-1 INF	20	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	20	ND(0.5)		NA
9-Aug-99	LGAC-1 EFF	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	ND	ND(0.5)		NA
9-Aug-99	LGAC-2 EFF	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	ND	ND(0.5)		NA
11-Aug-99	LGAC-1 INF	70	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	70	ND(0.5)		NA
11-Aug-99	LGAC-2 EFF	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	ND	ND(0.5)		NA
16-Aug-99	LGAC-1 INF	160	ND(1)	5	ND(1)	4	ND(1)	NA	9	169	0.6		NA
16-Aug-99	LGAC-2 EFF	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	ND	ND(0.5)		NA
23-Aug-99	LGAC-1 INF	160	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	160	ND(0.5)		NA
23-Aug-99	LGAC-2 EFF	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	ND	ND(0.5)		NA
30-Aug-99	LGAC-1 INF	170	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	170	ND(0.5)		NA
30-Aug-99	LGAC-2 EFF	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	ND	ND(0.5)		NA
7-Sep-99	LGAC-1 INF	140	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	140	ND(0.5)		NA
7-Sep-99	LGAC-1 EFF	20	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	20	ND(0.5)		NA
7-Sep-99	LGAC-2 EFF	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	ND	ND(0.5)	NA	NA
15-Oct-99	LGAC-1 INF	110	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	110	5.1	NA	NA
15-Oct-99	LGAC-1 EFF	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	ND	ND(0.5)	NA	NA
15-Oct-99	LGAC-2 EFF	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	ND	ND(0.5)	NA	NA
23-Nov-99	LGAC-1 INF	80	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	80	ND(0.5)	NA	NA
23-Nov-99	LGAC-1 EFF	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	ND	ND(0.5)	NA	NA
23-Nov-99	LGAC-2 EFF	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	ND	ND(0.5)	NA	NA
20-Dec-99	LGAC-1 INF	90	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	90	NA	NA	NA
20-Dec-99	LGAC-1 EFF	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	ND	ND(0.5)	NA	NA
20-Dec-99	LGAC-2 EFF	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	ND	ND(0.5)	NA	NA
11-Jan-00	LGAC-1 INF	100	2	11	11	87	38	NA	149	249	1.7	NA	NA
11-Jan-00	LGAC-1 EFF	40	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	40	ND(0.5)	NA	NA
11-Jan-00	LGAC-2 EFF	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	ND	ND(0.5)	NA	NA
24-Feb-00	LGAC-1 INF	90	ND(1)	ND(1)	4	17	7	NA	28	118	ND(0.5)	NA	NA
24-Feb-00	LGAC-1 EFF	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	ND	ND(0.5)	NA	NA
24-Feb-00	LGAC-2 EFF	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	ND	ND(0.5)	NA	NA
17-Mar-00	LGAC-1 INF	130	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	130	ND(0.5)	NA	NA
17-Mar-00	LGAC-1 EFF	60	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	60	ND(0.5)	NA	NA
17-Mar-00	LGAC-2 EFF	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	ND	ND(0.5)	NA	NA
6-Apr-00	LGAC-1 INF	90	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	90	ND(0.5)	NA	NA
6-Apr-00	LGAC-1 EFF	70	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	70	ND(0.5)	NA	NA
6-Apr-00	LGAC-2 EFF	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	ND	ND(0.5)	NA	NA
5-May-00	LGAC-1 INF	ND(100)	10	40	620	2,000	650	NA	3,320	3,320	0.8	NA	NA
5-May-00	LGAC-1 EFF	10	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	NA	ND	10	ND(0.5)	NA	NA
5-May-00	LGAC-2 EFF	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	ND	ND(0.5)	NA	NA
20-Jun-00	LGAC-1 INF	160	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	160	ND(0.5)	NA	NA
20-Jun-00	LGAC-1 EFF	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	ND	ND(0.5)	NA	NA
20-Jun-00	LGAC-2 EFF	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	ND	ND(0.5)	NA	NA
19-Jul-00	LGAC-1 INF	110	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	110	ND(0.5)	NA	NA
19-Jul-00	LGAC-1 EFF	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	ND	ND(0.5)	NA	NA
19-Jul-00	LGAC-2 EFF	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	ND	ND(0.5)	NA	NA
16-Aug-00	LGAC-1 INF	120	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	120	ND(0.5)	NA	NA
16-Aug-00	LGAC-1 EFF	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	ND	ND(0.5)	NA	NA
16-Aug-00	LGAC-2 EFF	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	ND	ND(0.5)	NA	NA
19-Sep-00	LGAC-1 INF	160	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	160	ND(0.5)	NA	NA
19-Sep-00	LGAC-1 EFF	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	ND	ND(0.5)	NA	NA
19-Sep-00	LGAC-2 EFF	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	ND	ND(0.5)	NA	NA
13-Oct-00	LGAC-1 INF	160	ND(1)	ND(1)	3	20	6	NA	29	189	1.3	NA	NA
13-Oct-00	LGAC-1 EFF	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	ND	ND(0.5)	NA	NA
13-Oct-00	LGAC-2 EFF	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	ND	ND(0.5)	NA	NA
14-Nov-00	LGAC-1 INF	70	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	70	0.9	NA	NA
14-Nov-00	LGAC-1 EFF	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	ND	ND(0.5)	NA	NA
14-Nov-00	LGAC-2 EFF	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	ND	ND(0.5)	NA	NA
5-Dec-00	LGAC-1 INF	120	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	120	ND(0.5)	NA	NA
5-Dec-00	LGAC-1 EFF	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	ND	ND(0.5)	NA	NA
5-Dec-00	LGAC-2 EFF	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	ND	ND(0.5)	NA	NA

TABLE 1
AQUEOUS PHASE SYSTEM SAMPLING SUMMARY
MR. MIKE'S MOBIL
1274 MAIN STREET
ASHBY, MASSACHUSETTS
NPDES REFERENCE #99-193

		USEPA Method 8021B (ug/L) (NOTE: Samples after 5/15/01 by USEPA Method 8260B)									USEPA Method 8100M (mg/L) TPH	USEPA Method 8015 GRO (ug/L)	USEPA Method 160.2 (mg/L) TSS
Date	Sample ID	Methyl-t-butyl ether (MTBE)	Benzene	Toluene	Ethylbenzene	mp-Xylene	0-Xylene	Naphthalene	Total BTEX	Total BTEX & MTBE			
NPDES Exclusion Discharge Limit		70	5	---	---	---	---	---	100	---	5	5,000	---
10-Jan-01	LGAC-1 INF	ND(100)	ND(10)	ND(10)	30	310	10	NA	350	350	3.4	NA	NA
10-Jan-01	LGAC-1 EFF	20	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	20	ND(0.5)	NA	NA
10-Jan-01	LGAC-2 EFF	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	ND	ND(0.5)	NA	NA
22-Feb-01	LGAC-1 INF	130	ND(1)	ND(1)	16	68	5	NA	89	219	ND(0.5)	NA	NA
22-Feb-01	LGAC-1 EFF	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	ND	ND(0.5)	NA	NA
22-Feb-01	LGAC-2 EFF	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	ND	ND(0.5)	NA	NA
16-Mar-01	LGAC-1 INF	120	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	120	ND(0.5)	NA	NA
16-Mar-01	LGAC-1 EFF	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	ND	ND(0.5)	NA	NA
16-Mar-01	LGAC-2 EFF	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND	ND	ND(0.5)	NA	NA
27-Apr-01	LGAC-1 INF	91	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND	91	ND(.05)	NA	NA
27-Apr-01	LGAC-1 EFF	52	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND	52	ND(.05)	NA	NA
27-Apr-01	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND	ND(2)	ND(.05)	NA	NA
15-May-01	LGAC-1 INF	87	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND	87	ND(.05)	NA	NA
15-May-01	LGAC-1 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND	ND(2)	ND(.05)	NA	NA
15-May-01	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND	ND(2)	ND(.05)	NA	NA
12-Jun-01	LGAC-1 INF	100	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	NA	ND	100	ND(.05)	NA	NA
12-Jun-01	LGAC-1 EFF	4	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	NA	ND	4	ND(.05)	NA	NA
12-Jun-01	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	NA	ND	ND	ND(.05)	NA	NA
11-Jul-01	LGAC-1 INF	86	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	NA	ND	86	0.14	NA	NA
11-Jul-01	LGAC-1 EFF	32	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	NA	ND	32	ND(0.05)	NA	NA
11-Jul-01	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	NA	ND	ND	ND(0.05)	NA	NA
6-Aug-01	LGAC-1 INF	96	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	96	ND(0.3)	NA	NA
6-Aug-01	LGAC-2 INF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	ND	ND(0.3)	NA	NA
6-Aug-01	LGAC-2 EFF	28	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	28	ND(0.3)	NA	NA
26-Sep-01	LGAC-1 INF	97	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	NA	ND	97	ND(0.15)	NA	NA
26-Sep-01	LGAC-1 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	NA	ND	ND	ND(0.15)	NA	NA
26-Sep-01	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	NA	ND	ND	ND(0.15)	NA	NA
23-Oct-01	LGAC-1 INF	100	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	NA	ND	100	ND(0.15)	NA	NA
23-Oct-01	LGAC-1 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	NA	ND	ND	ND(0.15)	NA	NA
23-Oct-01	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	NA	ND	ND	ND(0.15)	NA	NA
14-Nov-01	LGAC-1 INF	96	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	NA	ND	96	ND(0.15)	NA	NA
14-Nov-01	LGAC-1 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	NA	ND	ND	ND(0.15)	NA	NA
14-Nov-01	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	NA	ND	ND	ND(0.15)	NA	NA
9-Dec-01	LGAC-1 INF	98	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	NA	ND	98	0.12	NA	NA
9-Dec-01	LGAC-1 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	NA	ND	ND	ND(0.15)	NA	NA
9-Dec-01	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	NA	ND	ND	ND(0.15)	NA	NA
29-Jan-02	LGAC-1 INF	93	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	NA	ND	93	ND(0.15)	NA	NA
29-Jan-02	LGAC-1 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	NA	ND	ND	ND(0.15)	NA	NA
29-Jan-02	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	NA	ND	ND	ND(0.15)	NA	NA
26-Feb-02	LGAC-1 INF	79	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	NA	ND	79	ND(0.15)	NA	NA
26-Feb-02	LGAC-1 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	NA	ND	ND	ND(0.15)	NA	NA
26-Feb-02	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	NA	ND	ND	ND(0.15)	NA	NA
28-Mar-02	LGAC-1 INF	80	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	NA	ND	80	ND(0.15)	NA	NA
28-Mar-02	LGAC-1 EFF	51	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	NA	ND	51	ND(0.15)	NA	NA
28-Mar-02	LGAC-2 EFF	20	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	NA	ND	20	ND(0.15)	NA	NA
25-Apr-02	LGAC-1 INF	72	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	NA	ND	72	ND(0.15)	NA	NA
25-Apr-02	LGAC-1 EFF	3	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	NA	ND	3	ND(0.15)	NA	NA
25-Apr-02	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	NA	ND	ND	ND(0.15)	NA	NA
6-May-02	LGAC-1 INF	93	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	NA	ND	93	ND(0.15)	NA	NA
6-May-02	LGAC-1 EFF	6	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	NA	ND	6	ND(0.15)	NA	NA
6-May-02	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	NA	ND	ND	ND(0.15)	NA	NA
20-Jun-02	LGAC-1 INF	94	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	NA	ND	94	ND(0.15)	NA	NA
20-Jun-02	LGAC-1 EFF	18	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	NA	ND	18	ND(0.15)	NA	NA
20-Jun-02	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	NA	ND	ND	ND(0.15)	NA	NA
8-Jul-02	LGAC-1 INF	88	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND	88	ND(0.15)	NA	26
8-Jul-02	LGAC-1 EFF	14	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND	14	ND(0.3)	NA	NA
8-Jul-02	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND	ND	ND(0.15)	NA	24

TABLE 1
AQUEOUS PHASE SYSTEM SAMPLING SUMMARY
MR. MIKE'S MOBIL
1274 MAIN STREET
ASHBY, MASSACHUSETTS
NPDES REFERENCE #99-193

		USEPA Method 8021B (ug/L) (NOTE: Samples after 5/15/01 by USEPA Method 8260B)									USEPA Method 8100M	USEPA Method	USEPA Method
Date	Sample ID	Methyl-t-butyl ether (MTBE)	Benzene	Toluene	Ethylbenzene	mp-Xylene	0-Xylene	Naphthalene	Total BTEX	Total BTEX & MTBE	(mg/L) TPH	8015 GRO (ug/L)	160.2 (mg/L) TSS
NPDES Exclusion Discharge Limit		70	5	—	—	—	—	—	100	—	5	5,000	—
5-Aug-02	LGAC-1 INF	98	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND	98	93	NA	258
5-Aug-02	LGAC-1 EFF	2	ND(2)	ND(2)	7	17	15	ND(2)	39	41	NA	NA	NA
5-Aug-02	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND	ND	ND(0.15)	NA	ND (20)
26-Sep-02	LGAC-1 INF	99	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND	99	ND(0.15)	NA	ND (20)
26-Sep-02	LGAC-1 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND	ND	NA	NA	NA
26-Sep-02	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND	ND	ND(0.15)	NA	34
17-Oct-02	LGAC-1 INF	130	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND	130	ND(0.15)	NA	ND(20)
17-Oct-02	LGAC-1 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND	ND	NA	NA	NA
17-Oct-02	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND	ND	ND(0.17)	NA	26
22-Jan-03	LGAC-1 INF	73	ND(2)	ND(2)	5	16	3	ND(5)	24	97	NA	200	30
22-Jan-03	LGAC-1 EFF	ND(2)	ND(2)	ND(2)	ND(2)	4	ND(2)	ND(5)	4	4	NA	NA	NA
22-Jan-03	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	ND	NA	ND(200)	ND(20)
19-Feb-03	LGAC-1 INF	73	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	73	ND(0.05)	NA	ND(20)
19-Feb-03	LGAC-1 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	ND	NA	NA	NA
19-Feb-03	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	ND	ND(0.05)	NA	ND(20)
7-Mar-03	LGAC-1 INF	58	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	58	NA	ND(200)	ND(20)
7-Mar-03	LGAC-1 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	ND	NA	NA	NA
7-Mar-03	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	ND	NA	ND(200)	ND(20)
21-Apr-03	LGAC-1 INF	84	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	84	NA	ND(200)	ND(20)
21-Apr-03	LGAC-1 EFF	21	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	21	NA	NA	NA
21-Apr-03	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	ND	NA	ND(200)	20
15-May-03	LGAC-1 INF	71	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	71	NA	ND(200)	ND(20)
15-May-03	LGAC-1 EFF	26	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	26	NA	NA	NA
15-May-03	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	ND	NA	ND(200)	30
25-Jun-03	LGAC-1 INF	71	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	71	NA	ND(200)	ND(20)
25-Jun-03	LGAC-1 EFF	46	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	46	NA	NA	NA
25-Jun-03	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	ND	NA	ND(200)	26
9-Jul-03	LGAC-1 INF	78	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	78	NA	ND(200)	ND(20)
9-Jul-03	LGAC-1 EFF	58	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	58	NA	NA	NA
9-Jul-03	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	ND	NA	ND(200)	20
8-Aug-03	LGAC-1 INF	100	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	100	NA	ND(200)	22
8-Aug-03	LGAC-1 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	ND	NA	NA	NA
8-Aug-03	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	ND	NA	ND(200)	ND(20)
30-Sep-03	LGAC-1 INF	61	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	61	NA	ND(200)	ND(20)
30-Sep-03	LGAC-1 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	ND	NA	NA	NA
30-Sep-03	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	ND	NA	ND(200)	ND(20)
24-Oct-03	LGAC-1 INF	65	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	65	NA	ND(200)	ND(20)
24-Oct-03	LGAC-1 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	ND	NA	NA	NA
24-Oct-03	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	ND	NA	ND(200)	ND(20)
18-Nov-03	LGAC-1 INF	62	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	62	NA	ND(200)	ND(20)
18-Nov-03	LGAC-1 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	ND	NA	NA	NA
18-Nov-03	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	ND	NA	ND(200)	ND(20)
17-Dec-03	LGAC-1 INF	95	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	95	NA	ND(200)	ND(20)
17-Dec-03	LGAC-1 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	ND	NA	NA	NA
17-Dec-03	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	ND	NA	ND(200)	ND(20)
21-Jan-04	LGAC-1 INF	63	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	63	NA	ND(200)	ND(20)
21-Jan-04	LGAC-1 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	ND	NA	NA	NA
21-Jan-04	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	ND	NA	ND(200)	24
25-Feb-04	LGAC-1 INF	63	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	63	NA	ND(200)	ND(20)
25-Feb-04	LGAC-1 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	ND	NA	NA	NA
25-Feb-04	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	ND	NA	ND(200)	ND(20)
18-Mar-04	LGAC-1 INF	66	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	66	NA	ND(200)	ND(20)
18-Mar-04	LGAC-1 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	ND	NA	NA	NA
18-Mar-04	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	ND	NA	ND(200)	ND(20)
12-Apr-04	LGAC-1 INF	77	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	77	NA	ND(100)	26
12-Apr-04	LGAC-1 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	ND	NA	NA	NA
12-Apr-04	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	ND	NA	ND(100)	ND(20)
5-May-04	LGAC-1 INF	72	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	72	NA	ND(200)	ND(20)
5-May-04	LGAC-1 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	ND	NA	NA	NA
5-May-04	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	ND	NA	ND(200)	ND(20)

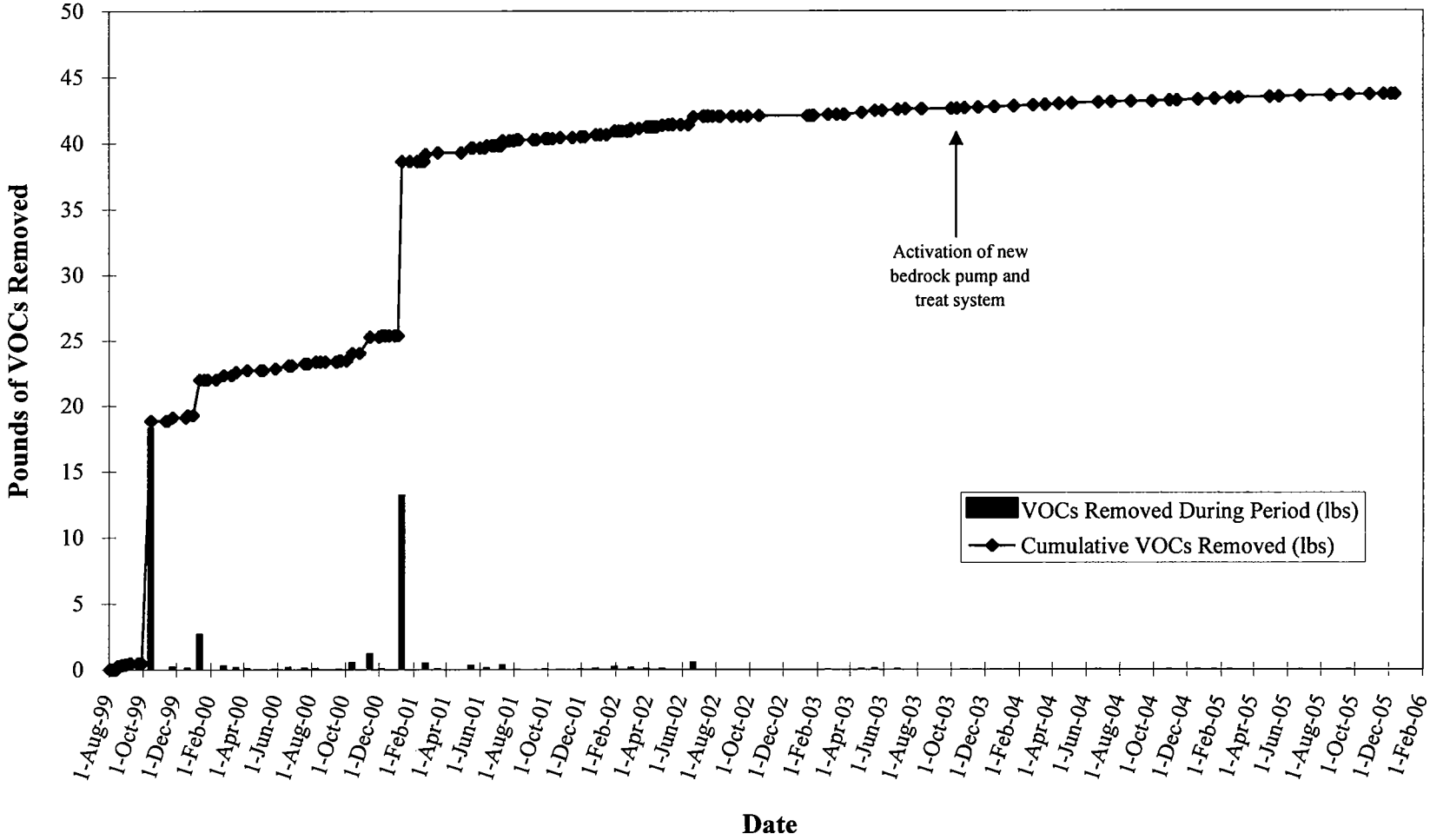
TABLE 1
AQUEOUS PHASE SYSTEM SAMPLING SUMMARY
MR. MIKE'S MOBIL
1274 MAIN STREET
ASHBY, MASSACHUSETTS
NPDES REFERENCE #99-193

		USEPA Method 8021B (ug/L) (NOTE: Samples after 5/15/01 by USEPA Method 8260B)									USEPA Method 8100M (mg/L) TPH	USEPA Method 8015 GRO (ug/L)	USEPA Method 160.2 (mg/L) TSS
Date	Sample ID	Methyl-t-butyl ether (MTBE)	Benzene	Toluene	Ethylbenzene	mp-Xylene	0-Xylene	Naphthalene	Total BTEX	Total BTEX & MTBE			
NPDES Exclusion Discharge Limit		70	5	---	---	---	---	---	100	---	5	5,000	---
22-Jun-04	LGAC-1 INF	71	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	71	NA	ND(200)	28
22-Jun-04	LGAC-1 EFF	2	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	2	NA	NA	NA
22-Jun-04	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND	ND	NA	ND(200)	25
15-Jul-04	LGAC-1 INF	76	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(5)	76	NA	ND(200)	ND(20)
15-Jul-04	LGAC-1 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(5)	ND	NA	NA	NA
15-Jul-04	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(5)	ND	NA	ND(200)	ND(20)
20-Aug-04	LGAC-1 INF	65	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(5)	65	NA	ND(200)	25
20-Aug-04	LGAC-1 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(5)	ND	NA	NA	NA
20-Aug-04	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(5)	ND	NA	ND(200)	ND(20)
27-Sep-04	LGAC-1 INF	87	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(5)	87	NA	ND(200)	ND(20)
27-Sep-04	LGAC-1 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(5)	ND	NA	NA	NA
27-Sep-04	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(5)	ND	NA	ND(200)	ND(20)
29-Oct-04	LGAC-1 INF	80	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(5)	80	NA	ND(200)	ND(20)
29-Oct-04	LGAC-1 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(5)	ND	NA	NA	NA
29-Oct-04	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(5)	ND	NA	ND(200)	24
11-Nov-04	LGAC-1 INF	120	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(5)	120	NA	ND(200)	ND(20)
11-Nov-04	LGAC-1 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(5)	ND	NA	NA	NA
11-Nov-04	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(5)	ND	NA	ND(200)	ND(20)
20-Dec-04	LGAC-1 INF	55	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(5)	55	NA	ND(200)	24
20-Dec-04	LGAC-1 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(5)	ND	NA	NA	NA
20-Dec-04	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(5)	ND	NA	ND(200)	27
19-Jan-05	LGAC-1 INF	72	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(2)	72	NA	ND(200)	ND(20)
19-Jan-05	LGAC-1 EFF	4	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(2)	4	NA	NA	NA
19-Jan-05	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(2)	ND	NA	ND(200)	27
16-Feb-05	LGAC-1 INF	79	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(2)	79	NA	ND(200)	ND(20)
16-Feb-05	LGAC-1 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(2)	ND	NA	NA	NA
16-Feb-05	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(2)	ND	NA	ND(200)	ND(20)
3-Mar-05	LGAC-1 INF	72	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(2)	72	NA	ND(200)	34
3-Mar-05	LGAC-1 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(2)	ND	NA	NA	NA
3-Mar-05	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(2)	ND	NA	ND(200)	ND(20)
29-Apr-05	LGAC-1 INF	62	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(2)	62	NA	ND(200)	ND(20)
29-Apr-05	LGAC-1 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(2)	ND	NA	NA	NA
29-Apr-05	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(2)	ND	NA	ND(200)	78
16-May-05	LGAC-1 INF	56	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(2)	56	NA	ND(200)	ND(20)
16-May-05	LGAC-1 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(2)	ND	NA	NA	NA
16-May-05	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(2)	ND	NA	ND(200)	21
23-Jun-05	LGAC-1 INF	85	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(2)	85	NA	ND(200)	ND(20)
23-Jun-05	LGAC-1 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(2)	ND	NA	NA	NA
23-Jun-05	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(2)	ND	NA	ND(200)	31
14-Jul-05	LGAC-1 INF	78	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(2)	78	NA	ND(200)	ND(20)
14-Jul-05	LGAC-1 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(2)	ND	NA	NA	NA
14-Jul-05	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(2)	ND	NA	ND(200)	22
17-Aug-05	LGAC-1 INF	67	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(2)	67	NA	ND(200)	ND(20)
17-Aug-05	LGAC-1 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(2)	ND	NA	NA	NA
17-Aug-05	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(2)	ND	NA	ND(200)	ND(20)
20-Sep-05	LGAC-1 INF	110	ND(2)	ND(2)	5	17	3	ND(5)	ND(2)	135	NA	ND(200)	34
20-Sep-05	LGAC-1 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(2)	ND	NA	NA	NA
20-Sep-05	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(2)	ND	NA	ND(200)	38
27-Oct-05	LGAC-1 INF	65	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(2)	65	NA	ND(200)	ND(20)
27-Oct-05	LGAC-1 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(2)	ND	NA	NA	NA
27-Oct-05	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(2)	ND	NA	ND(200)	ND(20)
21-Nov-05	LGAC-1 INF	67	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(2)	67	NA	ND(200)	ND(20)
21-Nov-05	LGAC-1 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(2)	ND	NA	NA	NA
21-Nov-05	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(2)	ND	NA	ND(200)	20
5-Dec-05	LGAC-1 INF	51	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(2)	51	NA	ND(200)	ND(20)
5-Dec-05	LGAC-1 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(2)	ND	NA	NA	NA
5-Dec-05	LGAC-2 EFF	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(5)	ND(2)	ND	NA	ND(200)	ND(20)

Notes:

NPDES-National Pollutant Discharge Elimination System.
ug/L-Microgram per liter.
mg/L-Milligrams per liter.
LGAC-Liquid phase granular activated carbon.
NA - Not analyzed for this parameter.
ND(x) - Constituent detected below laboratory method detection limits.
BTEX - Consists of benzene, toluene, ethylbenzene, and total xylenes.

USEPA - United States Environmental Protection Agency.
--- - Not Applicable.
LGAC-1 INF- Influent water sample taken before primary liquid granular activated carbon unit.
LGAC-1 EFF- Midpoint water sample taken between liquid granular activated carbon units.
LGAC-1 EFF is the same sample location as LGAC-2 INF.
LGAC-2 EFF- Effluent water sample taken after secondary liquid granular activated carbon unit.

TPH - total petroleum hydrocarbons; TSS - total suspended solids; GRO - gasoline range organics; EPH - extractable petroleum hydrocarbons; VPH - volatile petroleum hydrocarbons.

GRAPH 6
VOCs Removed By The Ground Water Treatment System
Mr. Mike's Mobil
1274 Main Street
Ashby, Massachusetts