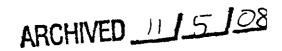
SCANNED



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FRAMINGHAM 3-0004005 TEXACO SERVICE STATION (FMR) 881 EDGELL RD

BWSC Records Retention Check List	
Date File Segregated: 11508 PS	DEP Box #
Region: 3 RTN : 3-0004005 Notification Date: 7/15/1993 Closing Action: RAORCD B1 Date: 7/20/1994	olistroyed SRC Box #
Site Name/Location Aid: TEXACO SERVICE STATION FMR Address: 881 EDGELL RD, FRAMINGHAM Permanent Record	SCANNED
Response Action Outcome circle type: Class A Class B	
Activity and Use Limitation	
No Further Action (NFA) Submittal	
Waiver Completion Statement	
LSP Evaluation Opinion – circle type: NDS NFA	
Notice of Audit Findings (NOFA) Level 1 Level 2 Level 3	
Audit Follow Up Plan and Post Audit Completion Statement	
Correspondence – circle document(s): NOR, NORA, NON, PAN, AC	COP, UAO,
С	Other
Phase 1 Initial Site Investigation	
Phase II-Comprehensive Site Assessment	

BWSC Records Retention Check List

Records Storage Center Appendices in support of permanent records: Analytical Data – Type:_____ Boring Logs Other Phase III-Comprehensive Remedial Action Alternatives Phase IV-Implementation of Selected Remedial Action Phase V-Operation, Maintenance and/or Monitoring IRA – circle submittal(s): Plan Status Report Completion Report RAM -- circle submittal(s): Plan Status Report **Completion Report** URAM -- circle submittal(s): Plan Status Report **Completion Report** Bill of Lading (BOL) Tier 1 Permit – circle submittal(s): Application Extension Tier Classification – circle submittal(s): Tier Classification Tier II Extension Special Project Designation -- Application **Transition Permit** Waiver Application Public Involvement Records





Streeterreet



June 14, 1994

Mr. James McGuire Department of Environmental Protection Northeast Region Waiver Group 10 Commerce Way Woburn, MA 01801

Re: Site Update Report DEP Case # 3-4005 Waiver Site Star Facility # 11-043-175 881 Edgell Road Framingham, Massachusetts

Dear Mr. McGuire:

Enclosed with this letter is a Site Monitoring Report prepared for the above location.

This report was prepared in accordance with M.G.L.C.21E. We anticipate future reimbursement in accordance with M.G.L.C.21J.

Please contact me if you require any additional information.

Sincerely, STAR ENTERPRISE

Robert A. Gulick Environmental Coordinator

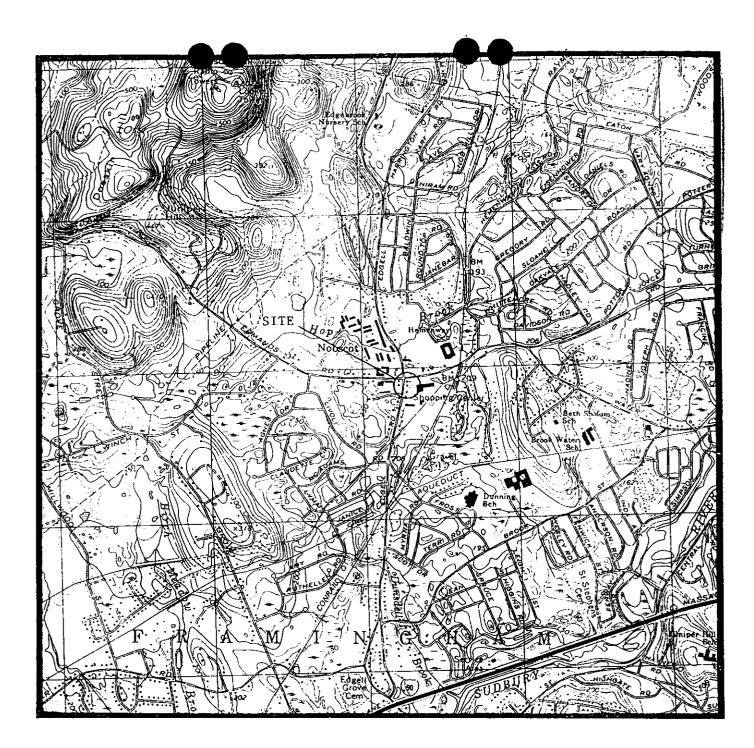
Attachments

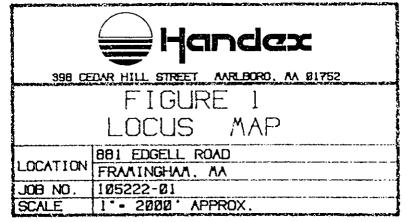
cc: JFL w/a Joe Italiano w/o ENV FILE w/a

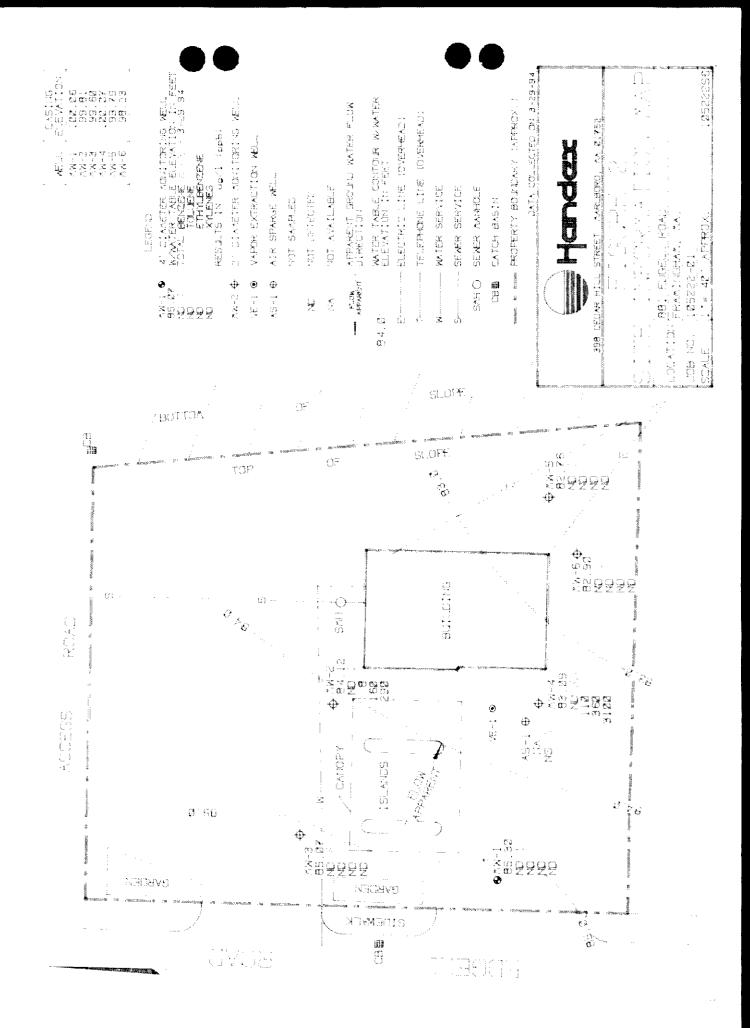




FIGURES











TABLES





TABLE 1 MONITORING WELL GAUGE DATA Star Facility 881 Edgell Road, Framingham, MA								
WELL NUMBER	WATER DEPTH (FEET)	CASING ELEVATION (FEET)	WATER ELEVATION (FEET)					
MW-1	14.76	100.06	85.30					
MW-2	15.69	99.81	84.12					
MW-3	14.53	99.60	85.07					
MW-4	16.98	100.07	83.09					
MW-5	17.03	99.79	82.76					
MW-6	15.33	98.23	82.90					

Table 2 Summary of Ground-water Analysis EPA Method 624M/MTBE Star Facility 881 Edgell Road, Framingham, MA												
Sample Date: 03/23/94 BTEX/MTBE Concentration (µg/l)												
Well	Benzene	Ethylbenzene	Toluene	Xylenes	Total BTEX	MTBE						
MW-1	ND	ND	ND	ND	ND	1.3						
MW-2	ND	160	8.0	290	458	1.4						
MW-3	ND	ND	ND	ND	ND	3.8						
MW-4	ND	360	110	3100	3,570	ND						
MW-5	ND	ND	ND	ND	ND	1.3						
MW-6	ND	ND	ND	ND	ND	1.4						
Notes:Concentrations expressed in (μg/l).NS indicates not sampled.NA indicates not analyzed.ND indicates not detected above the method of detection limit.												





APPENDIX A

Laboratory Analytical Data



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TECHNICAL REPORT FOR HANDEX OF NEW ENGLAND INC.

SAMPLES TAKEN AT:	STAR ENT., 881 EDGELL RD.,
CLIENT PROJECT ID:	105222-01
ACCUTEST JOB NUMBER:	940367N
SAMPLES RECEIVED AT ACCUTEST ON:	03/24/94
NUMBER OF SAMPLES IN THIS REPORT:	6
TOTAL NUMBER OF PAGES IN REPORT:	12

REZA TAND LAB DIRECTOR

NOTE: THIS REPORT SHOULD ONLY BE REPRODUCED IN FULL





HANDEX OF NEW ENGLAND INC. 398 CEDAR HILL STREET MARLBOROUGH, MA 01752 DATE: 04/01/94 JOB No: 940367N PROJECT No: 105222-01 SAMPLE RECEIVED: 03/24/94

ATTN: J. ITALIANO

SAMPLE SUMMARY

SAMPLE NO	COLI DATE	ECTED TIME	ву	POINT OF COLLECTION
E401316N	03/23/94	08:55	SH	WATER - MW-1; STAR ENT., 881 EDGELL RD., FRAMINGHAM, MA
E401317N	03/23/94	09:00	SH	WATER - MW-2; STAR ENT., 881 EDGELL RD., FRAMINGHAM, MA
E401318N	03/23/94	09:05	SH	WATER - MW-3; STAR ENT., 881 EDGELL RD., FRAMINGHAM, MA
E401319N	03/23/94	09:15	SH	WATER - MW-5; STAR ENT., 881 EDGELL RD., FRAMINGHAM, MA
E401320N	03/23/94	09:10	SH	WATER - MW-6; STAR ENT., 881 EDGELL RD., FRAMINGHAM, MA
E401321N	03/23/94	09:20	SH	WATER - MW-4; STAR ENT., 881 EDGELL RD., FRAMINGHAM, MA





SAMPLE NO	COLI DATE	LECTED TIME	ВŸ	POINT OF COLLECTION				
E401316N	03/23/94	08:55	SH	WATER - MW-1; STAR ENT., 881 EDGELL RD., FRAMINGHAM, MA				
TEST DESCRIPTION				RESULT	MDL	UNITS	DATE	INIT
PURGEABLE ARON	MATICS, MTBE							
BENZENE				ND	1.0	UG/L	03/24/94	RND_
ETHYLBENZEN	1E	. <u> </u>		ND	1.0	UG/L	03/24/94	RND
TOLUENE			1	ND	1.0	UG/L	03/24/94	RND
XYLENES, TOTAL			ND	1.0	UG/L	03/24/94	RND	
				1.3	1.0	UG/L	03/24/94	RND

495 Technology Center West • Building One • Marlborough, MA 01752-1861 • (508) 481-6200



SAMPLE NO	COLI DATE	LECTED TIME	BY	POINT OF COLLECTION BY				
E401317N	03/23/94	09:00	SH	WATER - MW-2; STAR ENT., 881 EDGELL RD., FRAMINGHAM, MA				
TEST DESCRIPTI	F	ESULT	MDL	UNITS	DATE	INIT		
PURGEABLE AROM BENZENE	ATICS, MTBE		Ň	ID	1.0	UG/L	03/24/94	RND
ETHYLBENZEN	Е		· · · · · · · · ·	.60	1.0	UG/L	03/24/94	
TOLUENE			8.0	1.0	UG/L	03/24/94	RND	
XYLENES, TOTAL				90	1.0	UG/L	03/24/94	RND
METHYL TERTIARY BUTYL ETHER 1					1.0	UG/L	03/24/94	RND



SAMPLE NO	COLI DATE	LECTED TIME	ВУ	POINT OF COLLECTION				
E401318N	03/23/94	09:05	SH	WATER - MW-3; STAR ENT., 881 EDGELL RD., FRAMINGHAM, MA				
TEST DESCRIPTI	F	ESULT	MDL.	UNITS	DATE	INIT		
PURGEABLE AROM	ATICS, MTBE							
BENZENE			1	ND	1.0	UG/L	03/25/94	RND
ETHYLBENZEN	E		1	1D	1.0	UG/L	03/25/94	RND
TOLUENE			ND	1.0	UG/L	03/25/94	RND	
XYLENES, TOTAL			ND	1.0	UG/L	03/25/94	RND	
METHYL TERTIARY BUTYL ETHER					1.0	UG/L	03/25/94	RND



SAMPLE NO	COLI DATE	LECTED	BY	POINT OF COLLECTION BY				
E401319N	03/23/94	09:15	SH	WATER - MW-5; STAR ENT., 881 EDGELL RD., FRAMINGHAM, MA				
TEST DESCRIPTION				ESULT	MDL	UNITS	DATE	INIT
PURGEABLE AROM	ATICS, MTBE							
BENZENE			1	ND	1.0	UG/L	03/24/94	RND
ETHYLBENZEN	E		<u>1</u>	ND	1.0	UG/L	03/24/94	RND
TOLUENE	TOLUENE			ND	1.0	UG/L	03/24/94	RND
XYLENES, TOTAL			ND	1.0	UG/L	03/24/94	RND	
METHYL TERTIARY BUTYL ETHER				1.3	1.0	UG/L	03/24/94	RND



SAMPLE NO	COLI DATE	LECTED	вч	POINT OF COLLECTION				
E401320N	03/23/94	09:10	SH	WATER - MW-6; STAR ENT., 881 EDGELL RD., FRAMINGHAM, MA				
TEST DESCRIPTION				RESULT	MDL	UNITS	DATE	INIŤ
PURGEABLE ARON	NATICS, MTBE							
BENZENE				ND	1.0	UG/L	03/24/94	RND
ETHYLBENZEN	NE			ND	1.0	UG/L	03/24/94	RND
TOLUENE			ND	1.0	UG/L	03/24/94	RND	
XYLENES, TOTAL			ND	1.0	UG/L	03/24/94		
				1.4	1.0	UG/L	03/24/94	RND



ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

		DATA FILES	ANALYSIS DATE
CLIENT : HNE LAB SAMPLE #: E401321N MATRIX : WATER METHOD : EPA 624	Initial : Dilution #1 : Dilution #2 :	>A2244	03/29/94
	RESULT (ug/L)	MDL (ug/L	<u>م</u>
<u>COMPOUND</u> 1) ACROLEIN 2) ACRYLONITRILE 3) BENZENE 4) BROMOFORM 5) BROMODICHLOROMETHANE 6) BROMOMETHANE 77 CARBON TETRACHLORIDE 8) CHLOROBENZENE 9) CHLOROBENZENE 9) CHLOROFORM 12) CHLOROFORM 12) CHLOROFORM 12) CHLOROMETHANE 13) CIS-1, 3-DICHLOROPROPENE 14) DIBROMOCHLOROMETHANE 15) 1, 2-DICHLOROBENZENE 16) 1, 3-DICHLOROBENZENE 17) 1, 4-DICHLOROBENZENE 18) 1, 1-DICHLOROETHANE 19) 1, 2-DICHLOROETHANE 20) 1, 1-DICHLOROETHYLENE 21) trans-1, 2-DICHLOROETHYLENE 22) trans-1, 3-DICHLOROPROPANE 23) 1, 2-DICHLOROETHYLENE 24) ETHYLBENZENE 25) METHYLENE CHLORIDE 26) 1, 1, 2, 2-TETRACHLOROETHANE 27) TETRACHLOROETHYLENE 26) 1, 1, 2-TRICHLOROETHANE 27) TETRACHLOROETHYLENE 28) TOLUENE 29) 1, 1, 1-TRICHLOROETHANE 30) 1, 1, 2-TRICHLOROETHANE 31) TRICHLOROETHYLENE 33) VINYL CHLORIDE 34) XYLENES, TOTAL	ND NDD NDD NDD NDD NDD NDD NDD NDD NDD	10050000000000000000000000000000000000	

ND = NOT DETECTED MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1 (2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)

=INDICATES AN ESTIMATED VALUE BELOW MDL =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE J B E



ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

	-	DATA FILES	ANALYSIS DATE
CLIENT : HNE LAB SAMPLE #: E401321N MATRIX : WATER METHOD : EPA 624	Initial Dilution #1 Dilution #2	>A2244	03/29/94
COMPOUND	RESULT (ug/L)	MDL _(ug/L)Q
1) METHYL TERT BUTYL ETHER	ND	50	

ND = NOT DETECTED MDL= METHOD DETECTION LIMIT (1) - RESULTS REPORTED FROM DILUTION #1 (2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)

J =INDICATES AN ESTIMATED VALUE BELOW MDL B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE





VOLATILE SURROGATE RECOVERY SUMMARY

LAB NAME : ACCUTEST LABORATORIES

BATCH ID : VA0703 BATCH DATE : 03/29/94

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061E401311NMSD	t	^A2248	1	ม	I	107		103	1	95	1	Û	1	1
071E401342N	1	^A2249	1	ω	I	97		93	l	9 0	1	0	ł	1
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					WATER	S	ÖIL
				Q	C LIMITS	QC I	LIMITS
S1	(TOL)	=	TOLUENE-D8	(88 -110)	(8	1 -112)
S2	(BFB)	=	4-BROMOFLUOROBENZENE	(86 -115)	(2)	4 -121)
S3	(DCE)	æ	1,2-DICHLORDETHANE-D4	(76 -114)	(7	0 -121)

MATRIX = Soil(S), Water(W)

Column to be used to flag recovery values

* Values outside of contract required QC limits

QUALIFIERS (Q)

a - SURROGATE RECOVERY(S) OUT DUE TO MATRIX INTERFERENCE VERIFIED BY REANALYSIS

1 of 1

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Pagei

- Ь SURROGATE DILUTED OUT
- c SAMPLE RE-ANALYZED

COMMENTS :

LAGORATORY CURONICLE

ACCUTEST Sample #	SAMPLE Date	ANALYTE	NETHOD	INITIAL Prep.	°IKAL Prep.	PREP. Initials	INITIAL ANALYSIS	REPORTED Analysic	ARALYST INITIALS
E401316W	03/23/94	PURGEABLE AROMATICS, NT8E	EPA 6243				03/24/94	03/24/24	eno.
C401317N	03/23/94	FURGEABLE AROMATICS, MTBE	<u>E</u> PA 624M				00/24/94	03/24/94	e # 0
E401318N	03/23/34	PURGEABLE AROMATICS, NTBE	EPA (24H				03/22/02	03/25/44	043
E401319N	03/23/94	PURGEABLE AROMATICS, MTGE	EPA 624M				03/24/94	03/24/94	8 N D
E401320N	03/23/94	PURGEABLE ARDHATICS, HTBE	EPA 624#				03/24/94	01/24/34	8 N Ū
E401321N	03/23/94	VOLATILE ORGANICS	EPA 624				03/29/94	03/29/94	8140
E401321N	03/23/94	METHYL TERTIARY BUTYL ETHER	EPA 624				03/29/94	03/29/44	8 N D

MANAGER		DATE 4 1 1 94
---------	--	---------------

أإعاماطحت	398 CEDAR HILL STREET MARLBORO, MA 01752	REPORT TO: Ann Holnace	APPROVED:	ANALYSIS REQUEST	BTEXM					VIGZIA MTBE 2			8:30 SAMPLE LOCATION	
			CI OTHER	POINT OF COLLECTION	Huu-1	MW-Z-	Mw-3	1-111-12	Mui-lo	H-U-4			BED BY: 1 DATE/TIME	
DY RECORD			асолезтер тири ароиир: П 48 нв П 7 рау ф ² week П отнер	FIELD ID	Star Enterprise					A A			TIME THE STREPHNOUMED BY	
			<u> </u>	PŘES.	4°9 4e1	4 -	4°C	4°C	4°C	√ 4°C	4°C	4°C	DATE/TIME	
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OF (3260	MATRIX	10	11/1	50	10	(1)	ίυ	· · · ·). RECEIVED BY: 1 3. RELINDUSED BY	
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14/552/ 14/552/ 22-21	1 Eester R	Allens	state the State Zip	DATE SAMPLED	3-23-94	4				->		Ç	Peri j	REMARKS: _WIC#
Job No. 114/5556 105227 51 Project No.	5 tay Client	· 520	City City Attention	NO. NO.	E4013164	MLIEIOH3	18151043	E401319N	101320M	N17E1043			2. RECENCE BY	REMARK

3-4005 EcAns



520 Allens Avenue P O Box 2007 Providence RI 02905 401 785 3260

January 14, 1993

Mr. John Fitzgerald Chief, Site Management Branch Massachusetts Department of Environmental Protection - Northeast Region 10 Commerce Way Woburn, MA 01801

Re: Phase I - Site Investigation 881 Edgell Road Framingham, Massachusetts

Dear Mr Fitzgerald:

Enclosed are a Phase I - Site Investigation Report, Preliminary Assessment Report (PAR), and an Interim Site Classification Form (ISCF) for the above location.

If you have any questions or concerns, please do not hesitate to contact me at (401) 785-3260.

Sincerely, STAR ENTERPRISE

Robert A. Gulick Environmental Coordinator

Attachments

cc: JFL w/a Joe Italiano w/o ENV FILE w/a



StarEnterprise

520 Allens Avenue P O Box 2007 Providence RI 02905 401 785 3260

Hamingham 3-4005

November 20, 1992

Mr. Steve Johnson Department of Environmental Protection Northeast Regional Office 10 Commerce Way Woburn, MA 01801

RE: Integral Line Removal Star Enterprise Service Station 881 Edgell Road Framingham, Massachusetts

Dear Mr. Johnson:

This letter report summarizes the removal of integral lines conducted on November 2, and 3, 1992 at the referenced location. This project was conducted to complement the underground storage tank removal project completed in November, 1991. Figure 1, a Locus Map Shows the location of the site and surrounding surface features.

On November 2, and 3, 1992, approximately 200 feet of steel and single wall fiberglass integral lines were removed from the ground by Govoni Brothers Construction. During the excavation, soil samples were collected and scanned for volatile organic vapors using an HNu photoionization detector (HNu) utilizing the jar-headspace technique.

As the lines were uncovered, they were visually inspected for structural integrity. The lines appeared sound and no holes or cracks were observed.

Hnu scanning readings of soils collected from the integral line excavation ranged from non detectable (ND) to 220 parts per million (ppm). At the location were scanning readings were observed above 100 ppm (Scan 4,5,6), the excavation and resampling of soil continued until HNu scannings were recorded at 22 ppm (Scan 13), the base of the excavation. Approximately **2 yds³** of soils producing HNu scanning readings greater than 22 ppm were excavated and stockpiled on site for later off-site disposal. These excavated soils were confined to an area located at the northern end of the western dispenser island to a depth of less than 5 feet.

Hnu scanning readings and sample locations are presented in Appendix A, Table 1, Soil Scanning Data and on Figure 2, A Site Information Map.

Should you have any questions, or wish to discuss the assessment, please do not hesitate to call me at (401) 785-3260.

Sincerely, STAR ENTERPRISE

.

J.

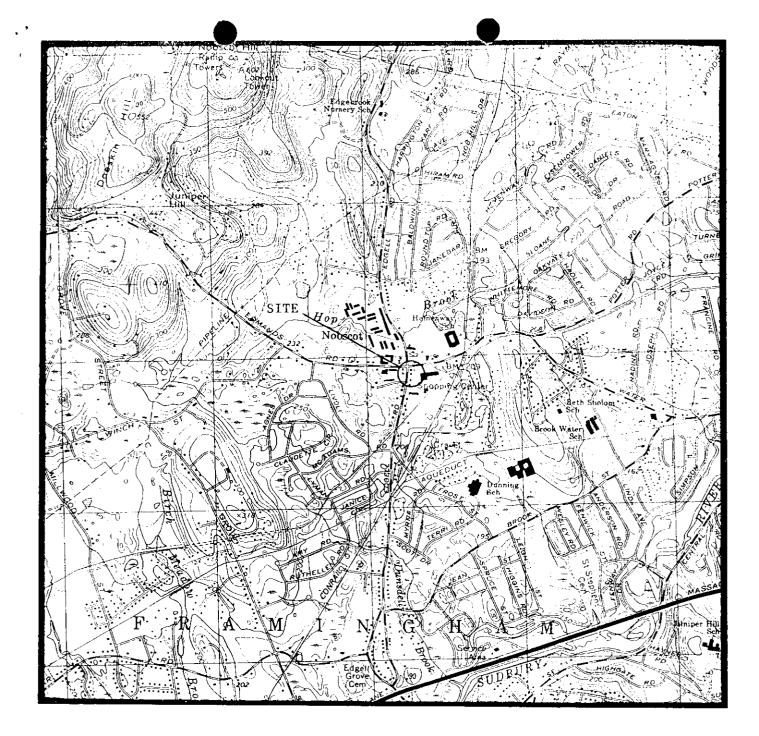
11 A Subol

Robert Gulick Environmental Coordinator

Attachments

cc: JFL w/a JI HNE w/o ENV FILE ATTACHMENT A

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398 CE	Handax
	FIGURE 1 Locus Map
LOCATION	881 EDGELL ROAD FRAAINGHAA, AA
JOB NO. SCALE	105222-01 1 - 2000 APPROX.

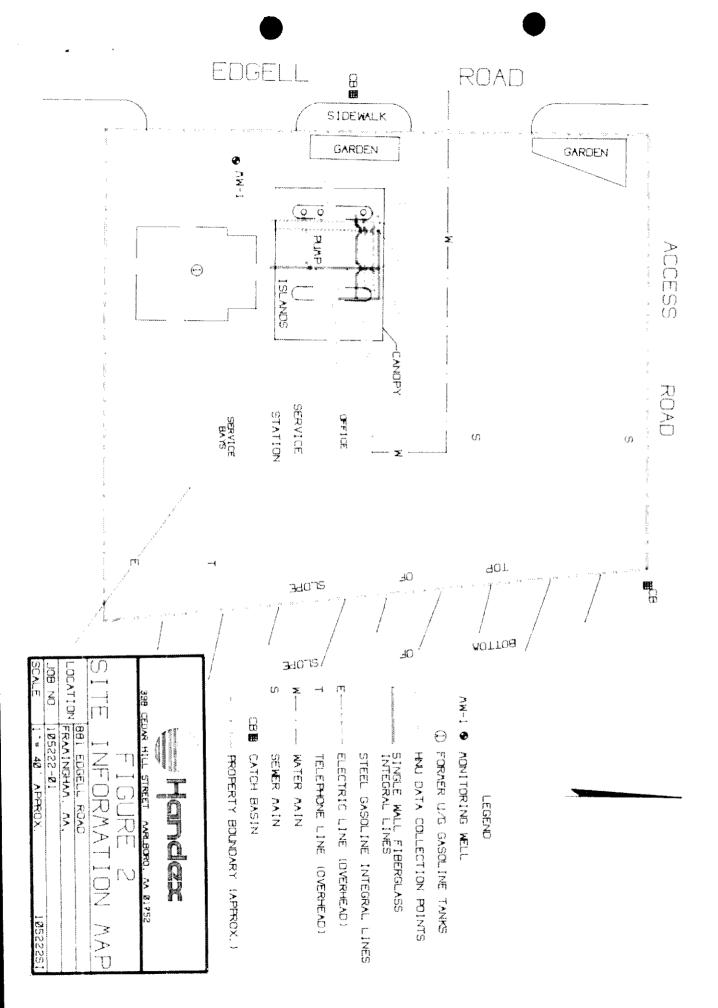


TABLE 1 SOIL SCANNING DATA

STAR ENTERPRISE SERVICE STATION 881 EDGELL ROAD FRAMINGHAM, MASSACHUSETTS

PRELIMINARY HNu CONCENTRATIONS

· · · · · ·

SAMPLE POINT	DEPTH	CONCENTRATION
1	1.5	2
2	1.5	4
3	2.5	10
4	3.0	200
5	4.0	210
6	4.5	220
7	1.0	0
8	1.0	0
9	1.0	0
10	1.0	0
11	1.0	0
12	1.0	0
13	5.0	22

FINAL HNu CONCENTRATIONS											
SAMPLE POINT	DEPTH	FINAL CONCENTRATION									
1	1.5	2									
2	1.5	4									
3	2.5	10									
4	3.0	*									
5	4.0	*									
6	4.5	*									
7	1.0	0									
8	1.0	0									
9	1.0	0									
10	1.0	0									
11	1.0	0									
12	1.0	0									
13	5.0	22									

FINAL HNu CONCENTRATIONS

NOTES: DEPTH IS GIVEN IN FEET BELOW GRADE.

NA = NOT APPLICABLE.

CONCENTRATIONS PRESENTED AS PARTS PER MILLION (PPM). * = CONTINUED EXCAVATING AND STOCKPILING SOIL SEE SAMPLE POINT 13 FOR FINAL CONCENTRATION. DATA COLLECTED NOVEMBER 2 AND 3, 1992

3-4005

StarEnterprise

520 Allens Avenue P O Box 2007 Providence RI 02905 401 785 3260 October 5, 1992

Mr. Steve Johnson Department of Environmental Protection Northeast Regional Office 10 Commerce Way Woburn, MA 01801

RE: Ground-water Sampling/Former Texaco Service Station 881 Edgell Rd.

Dear Mr. Johnson:

This letter summarizes the ground-water sampling episode conducted on August 27, 1992 for the referenced location at the request of Star Enterprise.

One ground-water sample was obtained from the on-site monitoring well (MW-1) on August 3, 1992. The sample was transported at 4°C to Accutest Laboratories, Marlboro, Massachusetts and analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 602 and for methyl tertiary-butyl ether (MTBE).

Laboratory analytical data from August 27, 1992 indicated BTEX in the ground-water sample collected from MW-1 was not detected (ND). MTBE was detected at 2.0 μ g/l.

Figure 1, a Site Information Map, lists BTEX and MTBE concentrations for two sampling episodes conducted on September 4, 1991 and August 27, 1992, Since September, 1991 BTEX has been (ND). During the same period, MTBE concentrations ranged in MW-1 from ND to $2.0 \ \mu g/l$.

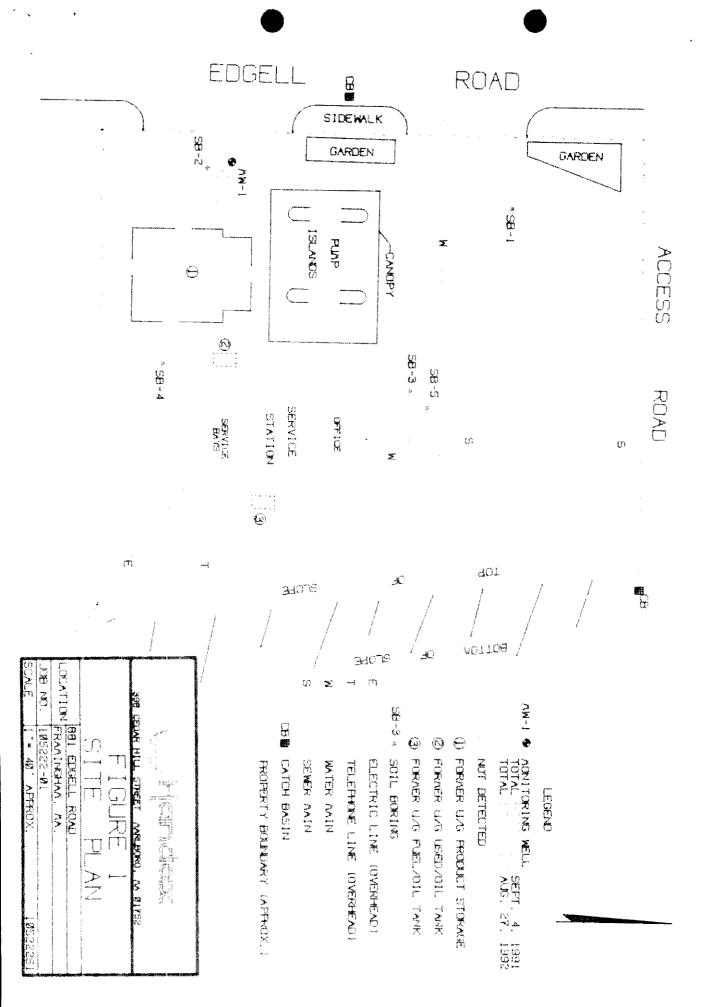
This recent data will be included in the release categorization form submitted to the Department of Environmental Protection in October 1992.

If you have any questions or wish to discuss this report, please do not hesitate to call our office.

Sincerely, STAR ENTERPRISE

Robert A. Gulick Environmental Coordinator

Attachments cc: JFL w/a ENV FILE w/a





HANDEX OF NEW ENGLAND INC. 398 CEDAR HILL STREET MARLBOROUGH, MA 01752 DATE: 09/08/92 JOB No: 920748N PROJECT No: 105222-01 SAMPLE RECEIVED: 08/28/92

ATTN: J. ITALIANO

• J

:

SAMPLE No	COLI DATE	LECTED TIME	BY	POINT OF COLLECTION
E202326N	08/27/92	09:00	WJB	GROUND WATER - W-1; FORMER STAR S/S, 881 EDGELL RD., FRAMINGHAM, MA

SAMPLE SUMMARY

JOHN HAMILTON LAB DIRECTOR

CERTIFICATIONS: MASSACHUSETTS (MA136)



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ANALYSIS REPORT

SAMPLE NO	COLI DATE	LECTED TIME	BY	POINT OF COLLECTION								
E202326N	08/27/92	09:00	WJB	GROUND WATER - W-1; FORMER STAR S/S, 881 EDGELL RD., FRAMINGHAM, MA								
TEST DESCRIPTION PURCEABLE AROMATICS.	F TD P		RESULT	MDL	UNITS	DATE	INITS					
BENZENE			ND	1.0	UÇ/L	09/02/92	SDE					
BTHYLBBNZBNB			ND	1.0	UG/L	09/02/92	SDE					
TOLUENE	ND	1.0	UG/L	09/02/92	SD8							
XYLENES, TOTAL		ND	1.0 UG/L 09/			SDB						
METRYL TERTIARY E	UTYL BTHBR	1.9	1.0 UG/L 09/02/92									

ND = NOT DETECTED UG/L = PPB MG/L = PPM MDL = METHOD DETECTION LINIT

NASSACHUSETTS CERTIFICATION: MA136

JOHN HAMILTON LAB DIRECTOR

LABORATORY CHRONICLE

ACCUTEST JOB #.....920748N

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DATE SAMPLES RECEIVED......08/28/92

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ACCUTEST Sanple # ======	SAMPLE Date =======	ANALYTE	NETHOD	INITIAL PREP. =======	FINAL PREP.	ANALYSIS	ANALYSIS	
E202326N	08/27/92	PURGEABLE AROMATICS, MTBE	EPA 624N			09/01/92	09/02/92	SDE

MANAGER

DATE 09 108 192

•	HILL STREET ARLADO, M 01752	д;	ANALYSIS REDLEYT	K											BANALE LOCATION	163
	CEDAR HILL. STREET	λ̄ PROVED:. [] στι€Ζ:.	ALANA YA	WYZISI					· · · ·						9. RECELTID BY :	4. Received BY:
	338	REGLESTED TURN AROUND:	LECTION	GROWN WATER											DATE/TIAE	DATE/TIAE
	CUSTODY RECORD	REQUESTED TURN AROUND: EK 📈 2 JEEKS 🗌 3 VEEKS 🗍 1	נופרט ומעצאות כב כמדפכנומא	K 55. W. /											3. Rel inquighed by:	4. FELINGUISHED BY:
			-fi	Parmine Brand											1. Baren Bri 3. Pa	
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	M. GZO74BN PROEDIN. 105322501 SZAR EMERAISE SZAR EMERAISE	ALLERO PROVIDENCE ATTENTION GULICK	SWE	B/27/92		¥		× .							mm Bard	2. Paliyato Br:
				1202,2007										1	1-	5. F54. 15

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Site # 3 - 4005 FRAMINGORAM



520 Allens Avenue P O Box 2007 Providence RI 02905 401 785 3260

October 5, 1992

Mr. Nick Varoutsos Department of Environmental Protection Northeast Region 10 Commerce Way Woburn, Massachusetts 01801

> Re: Release Categorization Form Star Enterprise Service Station 881 Edgell Road Framingham, Massachusetts

Dear Mr. Varoutsos

The attached Categorization Form has been completed by Star Enterprise to satisfy the Departments requirements to date for the referenced location.

Included with the form are a Tank Removal Procedure Report (Attachment 1), Environmental Site Assessment Report and the latest groundwater analytical data from August 27, 1992 with an updated Site Information Map (Attachment 2).

Should you have any questions or comments, please do not hesitate to contact me.

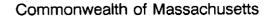
Sincerely, STAR ENTERPRISE

" Julits

Robert A. Gulick Environmental Coordinator

Attachments

cc: JFL w/a Joseph Italiano w/o ENV FILE



Executive Office of Environmental Affairs

Department of Environmental Protection

Metro Boston/Northeast Regional Office

RELEASE CATEGORIZATION FORM p. 1 of 5

1.	DEP Site Management Branch Number3-40	005		
2.	Location of Release:			
	PROPERTY/BUSINESS NAMEStar Enterpri	se Service Station		
	STREET ADDRESS <u>881 Edgell Rd</u>	CITY/TOWN Framingham	_ ZIP _	01701
3.	Property Owner(s)			
	NAME <u>Seven Seventy Water Street Trust</u>	NAME		
	STREET 801 Water Street	STREET		
	CITY/TOWN Framingham MA ZIP 01701	CITY/TOWN ZIP		
	TELEPHONE NUMBER 877-6131	TELEPHONE NUMBER		
4.	Property Operator(s)			
	NAME <u>Star Enterprise</u>	NAME		
	STREET 303 Fellowship RD	STREET		
	CITY/TOWN Moorestown NJ ZIP 08057	CITY/TOWN ZIP		
	TELEPHONE NUMBER (401) 785-3260	TELEPHONE NUMBER		



5.	Environmental Consultant(s)/Contractor(s)	
	NAME Handex of New England, Inc.	NAME
	STREET 398 Cedar Hill Street	STREET
	CITY/TOWN Marlboro ZIP MA	CITY/TOWN ZIP
	TELEPHONE NUMBER (508) 481-5750	TELEPHONE NUMBER
PLEA	SE PROVIDE CONCISE ANSWERS TO THE FOLL	_OWING QUESTIONS. (If additional required, use the backside of this form.)
6.	Specify the type(s) of oil/hazardous material(s	s) released:
Virg	in petroleum release to the soil in the vicinity of	underground storage tanks and product transfer lines.
7.	Estimate of the volume(s) of oil/hazardous mai made:	terial(s) released and provide an explanation of how this estimate was
Bas	ed on information obtained during a tank remova	al project and site assessment, any release to the site was
con	fined to spills from overfill.	
• •••		
8.	Was any evidence of floating product observe and a description of how this observation was	ed on the water table? Provide an estimate of the product thickness s made.
The	re has been no indication of floating product on	the water table. The on-site monitoring well was gauged on
Oct	ober 10, 1991 and August 27, 1992. The depth t	to water is approximately 16 feet.
<u></u>		
9.	Give a concise account of the release (add encountered):	dress why, how and where on the site the release occurred/was
The	re is no record of a release at the site.	······································

RELEASE CATEGORIZATION FORM p.3 of 5

10. Specify known or likely sources of the release (i.e., tank(s), piping drums, contaminated fill):

Petroleum hydrocarbons discovered on site likely originated from fuel transfer operations: over fill

11. If known/suspected source is a tank, or tank-related, provide a description of the number, size, age and contents of the tank(s) (existing or removed):

3 * 4,000 gallon single wall steel gasoline tanks, removed November, 1991

1 * 4,000 gallon single wall steel gasoline tank, fuel fill cemented closed. removed November, 1991.

1 * 6,000 gallon single wall fiberglass gasoline tank, removed November, 1991

1 * 1,000 gallon single wall steel fuel oil tank, removed November, 1991.

1 * 550 gallon single wall steel used oil tank, removed November, 1991.

12. Provide an estimate of the vertical and horizontal extent (i.e. depth and volume) of the contamination and the environmental media affected (i.e., soil, groundwater, surface water, air):

Data collected from the site indicated only soil in the area of the former tankfield, dispensers and the service station

building has been impacted. This encompasses and area approximately 120 feet long and 50 feet wide at depths

ranging from 5 to 15 feet deep. The volume of this area, minus the volume of the tanks and soil removed from the

tank removal is approximately 1,600 yd³.

RELEASE CATEGORIZATION FORM p. 4 07 5

13. Give the approximate depth to groundwater (provide explanation of how this was determined):

Ground water was detected at approximately 16 feet below grade. The depth was determined by installation of

a ground-water monitoring well and subsequent gauging.

14. Provide a concise description of all remedial response actions that have been taken relative to the release/threat of release (i.e. tank removal, soil excavation/removal and removal, installation of monitoring wells/test pits, recovery of free-phase product, installation of absorbent booms, construction of berms and other containment measures).

In October 1991, five soil borings and one monitoring well were installed at the site. In November 1991

five underground gasoline storage tanks, 1 underground fuel oil tank and 1 underground used oil tank

were removed from the property. Approximately 3 yds³ of soil was stockpiled on-site for disposal.

15. Describe the type of field instrument(s) used, methods of sampling and screening, locations, number and types of samples taken, and laboratory analyses performed:

During the tank excavation, volatile organic vapors were scanned with an HNu Model PI-101 photoionization detector (HNu)

utilizing the jar headspace technique. During the advancement of the soil borings and monitoring well advancement,

soil samples were collected at five foot intervals from grade to the water table and scanned with an HNu. Soils

producing the highest HNu scanning readings were submitted for laboratory analysis of petroleum hydrocarbons.

Twenty eight soil scannings were taken during the removal of the underground storage tanks. Soil samples collected for laboratory analysis was submitted for BTEX by EPA 8020 and PHC. Ground-water samples were submitted

laboratory for analysis by EPA 602.



16. Describe methods employed to segregate contaminated soil from "clean" soil; specify screening limits (i.e. head space concentrations measured by an organic vapor detector) and visual observations were used in the segregation process.

Soils were segregated by instrumental evaluation by HNu in the field and by visual confirmation of product staining.

Soils producing HNu scanning readings grater than 100 ppm was stockpiled for off-site disposal. All of the soil

removed was taken from the gasoline tank field from near the tank fill ports.

17. Complete the following checklist of documentation submitted with this form:

- X Site sketch (indicate the location of the release, locations of any known or suspected sources, test pits, borings, monitoring and recovery wells, stockpiles, and any other relevant site features);
- X Laboratory and screening data corresponding to sample locations;
- X Test pit, boring and monitoring well logs, if relevant;
- Photocopies of all bills of lading/waste manifests for the off-site removal of materials contaminated with oil/hazardous materials.

If this form is completed by a private party and/or a professional environmental consultant on behalf of a private party, please sign below:

I hereby certify that the information furnished in and with this for is, to the best of my knowledge, true, accurate and complete.

Signature: (owner/operator/private party)

Jonathan Morse Signature: (professional environmental consultant)

Date:

10-5-92

Signature: _____

ATTACHMENT 1



HANDEX OF NEW ENGLAND, INC., 398 Cedar Hill Street, Marlboro, MA. 01752 • (508) 481-5750 • FAX (508) 481-5159

July 28, 1992

Site # 3-1605

Mr. Nick Varoutsos Department of Environmental Protection Northeast Region 10 Commerce Way Woburn, Massachusetts 01801

Re: Release Categorization Form Star Enterprise Service Station 881 Edgell Road Framingham, Massachusetts

Dear Mr. Varoutsos

Handex of New England Inc., on behalf of Star Enterprise, is requesting an additional 45 days to gather further information to satisfactorily complete the Release Categorization Form.

Should you have any questions, please feel free to call our office.

Sincerely, Handex of New England, Inc.

Jonathan Morse Hydrogeologist

Eric L. Montgomery Project Manager/Senior Hydrogeologist

cc: Robert Gulick, Star Enterprise



HANDEX OF NEW ENGLAND, INC., 398 Cedar Hill Street, Marlboro, MA. 01752 • (508) 481-5750 • FAX (508) 481-5159

April 16, 1992

Star Enterprises 520 Allens Avenue Providence, Rhode Island 02905

Attention: Robert Gulick

RE: Tank Removal Procedure Texaco Service Station 881 Edgell Road Framingham, Massachusetts

Dear Mr. Gulick:

This letter provides a brief summary of the underground storage tank replacement project and a summary of the analytical data obtained from the soil stockpiled at the above referenced location.

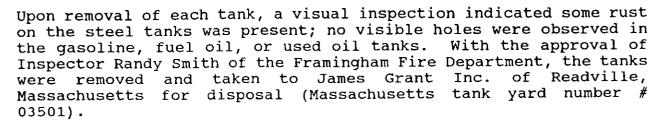
BACKGROUND

The site is located on Edgell road, south of Edmands Road in the Nobscot section of Framingham, Massachusetts. Figure 1 is a locus map showing the location of the site, surrounding features, topography, and surface drainage.

UNDERGROUND STORAGE TANK REMOVAL

On November 6 and November 7, 1991, the following underground storage tanks were removed by Govoni Brothers Construction of Worcester, Massachusetts.

Number of Tanks	Capacity Gallons	Construction	Contents	Serial #				
3 1* 1# 1 1	4,000 4,000 6,000 1,000 550	Steel Steel Fiberglass Steel Steel	Gasoline Gasoline Gasoline Fuel Oil Used Oil	NA NA T-109596 NA NA				
<pre>* Fuel fill port filled with cement. NA = Not applicable # Single wall fiberglass tank.</pre>								



During the tank removal process, the excavated soil was scanned with an HNu Model PI-101 photoionization device using the jar headspace procedure. Figure 2 is a Site Plan of the service station property showing the areas from which the tanks were removed and HNu screening locations.

Organic vapor concentrations in the soil from the gasoline tankfield excavation ranged from nondetectable (ND) to 250 parts per million (ppm). The highest concentrations of organic vapors was detected in the soil taken from around the fuel fill ports. Organic vapors were not detected (ND) in the soils from excavated from the fuel oil and used oil tanks. Table 1 presents a summary of the HNu screening data.

Approximately 3 cubic yards of soil excavated from the fuel filler ports area during the tank removal procedure produced organic vapor concentrations greater than 100 ppm. The soil was stockpiled for off-site disposal. The tankfields were backfilled with native material and clean soil trucked in by Govoni. No new tanks were installed at the location.

SOIL QUALITY DATA

Post excavation samples were obtained from beneath the five gasoline tanks, fuel oil tank and used oil tank. The soil samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA method 8020 and for total petroleum hydrocarbons (TPH) by EPA Method 418.1. Total BTEX in the post excavation samples from beneath the gasoline tanks was detected at 6 mg/kg in T-1 and 26 mg/kg in T-2. BTEX was not detected in any other soil sample.

TPH detected in the soil samples taken beneath the gasoline tanks ranged from 60 mg/kg in T-5 to 1,000 mg/kg in T-2. TPH was detected in the soil samples from beneath the fuel oil and used oil tank at 85 mg/kg and 280 mg/kg, respectively.

Table 2 summarizes the laboratory analytical sheets attached as Appendix A.



STOCKPILED SOIL SAMPLING AND ANALYSIS

In order to further classify the stockpiled soil for disposal, one soil sample (composite sample #1) was obtained from the stockpile on November 7, 1991. The soil sample was analyzed for the following parameters:

Volatile Organic Compounds (EPA Method 8240) Total Petroleum Hydrocarbons (EPA Method 418.1) PCBs (EPA Method 8080) Corrosivity (EPA Method 9010) Cyanide Reactivity (EPA Method 9030) Sulfide Reactivity (EPA Method 9030) Ignitability (EPA Method 1010) Total Cyanide (EPA Method 9012)

No volatile organic compounds or PCBs were detected in the soil stockpile composite sample. Barium as a TCLP leachate was detected at 0.64 mg/l and TPH was detected at 170 mg/kg. The sample was not corrosive, had a pH of 7.5 and did not react with cyanide or sulfide. Total cyanide was ND and the flashpoint was greater than 150° F.

Laboratory analytical data sheets are attached as Appendix B.

SOIL DISPOSAL

Approximately 3 cubic yards of soil was taken to D'Ambra Construction Co. Inc. Warwick, Rhode Island for asphalt batch processing.

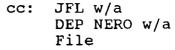
If you should have any questions, please do not hesitate to contact our office.

Sincerely, Handex of New England, Inc.

Jonathán Morse Hydrogeologist

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Eric L. Montgomery Project Manager/ Senior Hydrogeologist





TABLES



TABLE 1										
881 Ed	Texaco Gasoline Station 881 Edgell Road Framingham, Massachusetts									
	HNu Photoionization Screening Results									
Sample	es col	lected November 6	5, 1991.							
	Sample Number	Depth (ft)	Result (ppm)	Notes						
	S-1	2	ND	South side Tank T-1						
1	s-2	5	90	South side T-1						
1	S-3	0.5	80 70	Area of fuel sump T-1 Area of fuel fill T-1						
	s-4 s-5	2 6	70 60	South side of T-1.						
[S-5 S-6	1	3	Between T-1 and T-2.						
	s-0 S-7	7	25	Between T-1 and T-2.						
	s-8	3	90	Area of fuel sump T-2						
	\$-9	ĩ	ND	Between T-2 and T-3						
1	s-10	2	80	Between T-3 and T-4						
1	s-11	2	70	Between T-3 and T-4						
	S-12	3	80	Area of fuel sump T-3						
	s-13	7	250	Area of fuel fill T-4						
	s-14	6	120	Area of fuel sump T-4						
	S-15	6	80	Side of tank 4 and 5						
1	S-16	7	70	Side of tank 4 and 5						
1	S-17	9	250	Area of fuel fill T-5						
	S-18	5	200	Area of fuel fill T-5						
	S-19	7	150	Area of fuel sump T-5						
	S-20	12	30 50	Beneath Tank T-1						
	S-21 S-22	12 12	50 60	Beneath Tank T-2 Beneath Tank T-3						
í	s-22 s-23	0.5	ND	Fuel oil tank 1-5						
•	s-24	6	ND	Fuel oil tank bottom T-6						
	s-25	4	ND	Fuel oil tank bottom T-6						
	s-26	0.5	ND	Used oil fill port T-7						
	S-27	4	ND	Used oil tank bottom T-7						
ł	s-28	2	ND	Used oil tank bottom T-7						
Notes	:									
1.	All r	esults are in par	rts per mi	llion (ppm).						
2.	photo	ionization detect	tor with a	d HNu Model PI 101 10.2 electron volt mple headspace technique.						
3.	ND In	dicates no organi	ic vapors (detected.						



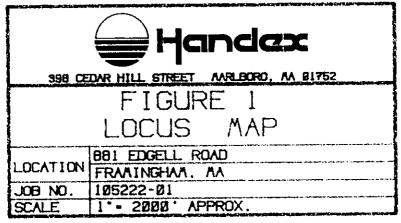


NOTES: 1) Samples 2) TPH res 3) BTEX re 4) ND = No 5) T-1 rep	ТРН	Total BTEX	Xylenes	Ethylbenzene	Toluene	Benzene	Parameter		
Samples colle TPH results a BTEX results ND = Not dete T-1 represent	120	6.0	4.0	.710	.500	.280	Bottom T-1		SOIL
lected on November 6 are in milligrams pe s are in milligrams f tected above method c nts Tank #1.	1,000	26	26	.058	.011	.006	Bottom T-2	Fr	SOIL QUALITY DATA: GA
	100 ovember 6 & ligrams per lligrams pei e method de	ND	ND	ND	ND	ND	Bottom T-3	Texaco Service Station 881 Edgell Road Framingham, Massachusetts	OS O
7, 1991. - kilogram pr kilogram tection li	520	ND	ND	ND	ND	ND	Bottom T-4	Service Station Edgell Road mm, Massachusett	TABLE 2 A: POST EXCAVATION GASOLINE TANKFIELD
(mg/kg). (mg/kg). mit.	60	ND	ND	ND	ND	ND	Bottom T-5	tt on	SOIL SAMPLES
	8 5	ND	ND	ND	ND	ND	Bottom T-6		LES
	280	ND	ND	ND	ND	ND	Bottom T-7		

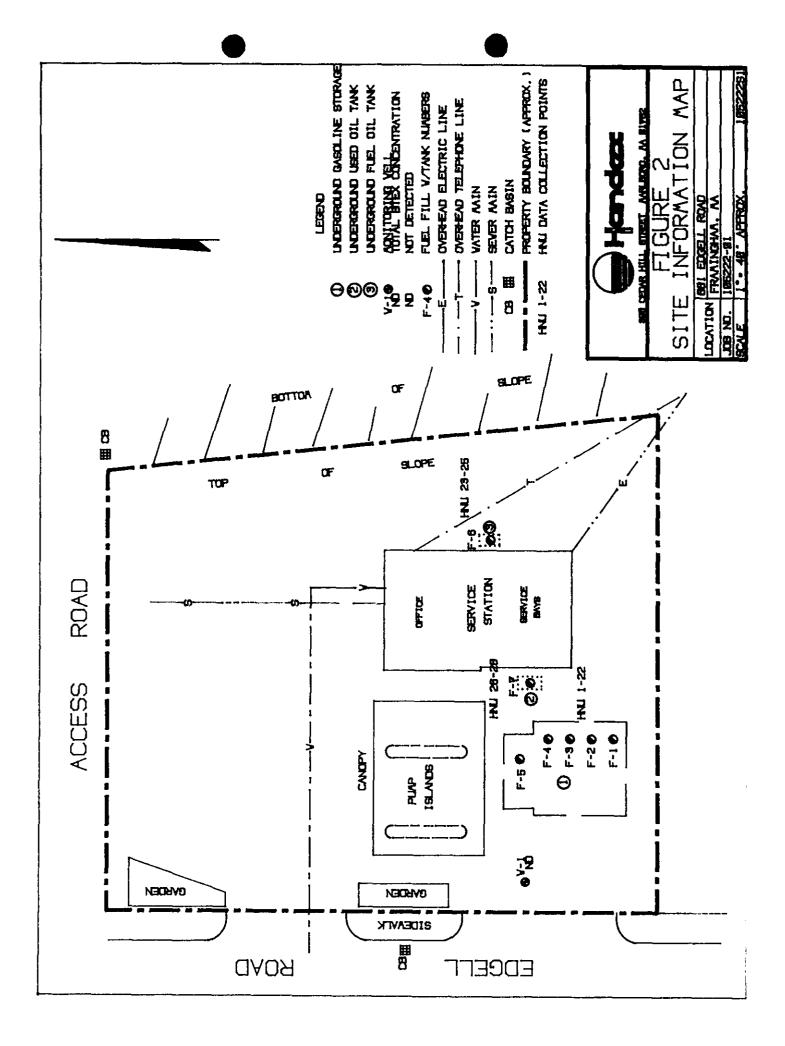
FIGURES







APPENDIX A





HANDEX OF NEW ENGLAND INC. 398 CEDAR HILL STREET MARLBOROUGH, MA 01752 DATE: 11/24/91 JOB No: 910887N PROJECT No: 105222-01 SAMPLE RECEIVED: 11/15/91

ATTN: J. ITALIANO

SAMPLE NO	COLI DATE	LECTED TIME	ВУ	POINT OF COLLECTION
E102795N	11/06/91	09:00	JM	SOIL - T-1; GASOLINE TANKFIELD BOTTOM; TEXACO S/S, 881 EDGELL ROAD, FRAMINGHAM, MA
E102796N	11/06/91	08:50	JM	SOIL - T-2, GASOLINE TANKFIELD BOTTOM; TEXACO S/S, 881 EDGELL ROAD, FRAMINGHAM, MA
E102797N	11/06/91	12:00	ML	SOIL - T-3, GASOLINE TANKFIELD BOTTOM; TEXACO S/S, 881 EDGELL ROAD, FRAMINGHAM, MA
E102798N	11/06/91	12:10	JM	SOIL - T-4, GASOLINE TANKFIELD BOTTOM; TEXACO S/S, 881 EDGELL ROAD, FRAMINGHAM, MA
E102799N	11/06/91	13:30	JM	SOIL - T-5, GASOLINE TANKFIELD BOTTOM; TEXACO S/S, 881 EDGELL ROAD, FRAMINGHAM, MA

SAMPLE SUMMARY

JOHN HAMILTON LAB DIRECTOR

BRTIPICATIONS: KASSACHUSETTS (KA135)



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ANALYSIS REPORT

SAMPLE NO	COLI DATE	LECTED TIME	BY	POINT OF COLLECTION					
E102795N	11/06/91	09:00	JM	SOIL - T-1; GASOLINE TANKFIEI BOTTOM; TEXACO S/S, 881 EDGEI ROAD, FRAMINGHAM, MA					
TEST DESCRIPTION			RESULT	MDŁ	UNITS	DATE	INITS		
PURGBABLE ARONATICS*									
BBNZBNB			280	130	UG7KG	11/21/91	SDB		
<u>ETHYLBBNZBNB</u>	····		710	130	UG/KG	11/21/91	SDB		
TOLUBNE			500	130	UG/KG	11/21/91	SDB		
XYLENES, TOTAL			4400	130	UG/NC	11/21/91	SDB		

* MDL BLBVATBD DUB TO DILUTION FACTOR.



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ANALYSIS REPORT

SAMPLE No	COLI DATE	LECTED TIME	ВҮ	POINT OF COLLECTION			
E102795N	11/06/91	09:00	ML	SOIL - T-1; GASOLINE TANKFIELD BOTTOM; TEXACO S/S, 881 EDGELL ROAD, FRAMINGHAM, MA			
TEST DESCRIPTION			RESULT	NDL	UNITS	DATE	INITS

PETROLEUN HYDROCARBONS	120	25	KG7EG	11/21/91 CAD
SOLIDS, TOTAL PERCENT	95	2.0	<u> </u>	11/20/91 CAD



SAMPLE NO	COLI DATE	LECTED TIME	BY	POINT OF COLLECTION					
E102796N	11/06/91	08:50	JM	SOIL - T-2, GASOLINE TANKFIELD BOTTOM; TEXACO S/S, 881 EDGELL ROAD, FRAMINGHAM, MA					
TEST DESCRIPTION			RESULT	KDL	UNITS	DATE	INITS		
PURGEABLE ARONATICS									
BBNZ <u>BN</u> B			5.1	5.3	UG / KG	11/19/91	SDB		
RTHYLBBNZENB			58	<u> </u>	UG/KC	11/19/91	SDB		
TOLUENE			11	<u></u>	UG/XG	11/19/91	SDB		
XYLBNBS, TOTAL			26000	130	UG/NC	11/19/91	SDB		

* NDL BLEVATED DUE TO DILUTION FACTOR.

JOBN HANILTON LAB DIRECTOR



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ONATORIES OF NEW ENGLAND, INC. ANALYSIS REPORT

SAMPLE NO	(Į	LECTED TIME	BY	POINT OF COLLECTION
	11706791		JM	SOIL - T-2, GASOLINE TANKFIELD BOTTOM; TEXACO S/S, 881 EDGELL ROAD, FRAMINGHAM, MA

TEST DESCRIPTION	RESULT	NDL	UNITS	DATE	INITS
PETROLEUM HYDROCARBONS	1000	<u>. 25</u>	<u>80.10</u>	11/21/91	CAD
SOLIDS, TOTAL PERCENT	94	F. 0	i.	11/20/91	CAD



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ANALYSIS REPORT

SAMPLE NO	COL. DATE	LECTED TIME	BY	POINT OF COLLECTION				
E102797N	11/06/91	17:00	JM	SOIL - T - 3 BOTTOM; TE ROAD, FRAM	XACO S7S, INGHAM, M	E TANKFIEL 881 EDGEL		
TEST DESCRIPTION			RESULT	KDL	UNITS	DATK	INITS	
PURGBABLE ARONATICS BENZENE			S0	т. н	901KG		308	
STHAT BBNAENS			ND	· · · · · · · · · · · · · · · · · · ·	00 193		SD8	

C.H. BODICHUG	14.0	+ 11	G.M. 272		206
TOLUBNS	ND		UC (R.C	1119/91	S <u>D 8</u>
)YLBNBS, 101A	N. Y		04 NG	1 ¹⁴ .	S1.8

JOEN BANILTON LAB DIRECTOR



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ANALYSIS REPORT

SAMPLE NO	COLLECTED		<u></u>	POINT OF COLLECTION
	DATE	TIME	BY	
E102797N	11706791	1.1:00	JM	SOIL - T-3, GASOLINE TANKFIELD BOTTOM; TEXACO S/S, 881 EDGELL ROAD, FRAMINGHAM, MA

TEST DESCRIPTION	RESULT	KDL	UNITS	DATK	INITS
PETROLEUN HYDRCCANEONS	let	25	NG/RG		CAD
SQLIDS, TOTAL FERIERS	ч. Ч.	5.0	i. K		CAD

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ANALYSIS REPORT

SAMPLE NO		LECTED TIME	ВҮ	POINT OF COLLECTION
E102798N	11/06/91	12:10	JM	SOIL T-4, GASOLINE TANKFIELD BOTTOM; TEXACO S/S, 881 EDGELL ROAD, FRAMINGHAM, MA

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TEST DESCRIPTION	RESULT	NDL.	UNITS	DATE	INITS
PURGEABLE ARONATICS					
BBN7BNB	ND	5.4	UG7KG	1114(91	SDF
BTHYLBBNZBNZ	NO	5.4	UG <u>/ KG</u>	11 19,21	SDE
TOLUBNB	ND	<u>5.4</u>	UG/KG	1119/31	SDE
<u>XYLBNBS</u> , TOTAL	N[)		UCALC	· · · · ·	SD&



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BORATORIES OF NEW ENGLAND, INC. ANALYSIS REPORT

SAMPLE No	Į	 BY	POINT OF COLLECTION
E102798N	11706791	JM	SOIL T-4, GASOLINE TANKFIELD BOTTOM; TEXACO S/S, 881 EDGELL ROAD, FRAMINGHAM, MA

TEST DESCRIPTION	RESULT	MDL	UNITS	DATE	INITS
PBTROLBUM HYDROCARBONS	500 ₀₀₀	S	KG7 <u>EG</u>	11/21/21	CAD
SOLIDS, TOTAL PERCENT	3	0	ł.	11720/91	C <u>AD</u>



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ANALYSIS REPORT

SAMPLE No	COLI DATE	LECTED TIME	BY	POINT OF COLLECTION
E102799N	11/06/91	13:30	ЛМ	SOIL T-5, GASOLINE TANKFIELD BOTTOM; TEXACO S/S, 881 EDGELL ROAD, FRAMINGHAM, MA

TEST DESCRIPTION	RESULT	NDL	UNITS	DATE	INITS
PURGEABLE ARONATICS					
BBNZBNB	. <u>80</u>		96 <u>786</u>	11,18/91	SDR
BTHYLBRNZENE	ND	3.3	UC/XQ	i1/ <u>18/91</u>	SDB
TOLUBNE	ND _	5.3	UC/XQ	11/18/91	SDB
XYLBNBS, TOTAL	80_		$\{i_{i_{i_{j}}}^{(i)},j_{j_{j}}^{(i)}\}$	1118	808

JOHN BANILTON LAB DIRECTOR



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BORATORIES OF NEW ENGLAND, INC ANALYSIS REPORT

SAMPLE NO		LECTED TIME	НΥ	POINT OF COLLECTION
E102799N	11706791		JM	SOIL T 5, GASOLINE TANKFIELD BOTTOM; TEXACO S/S, 881 EDGELL ROAD, FRAMINGHAM, MA

TEST DESCRIPTION	RESULT	NDL	UNITS	DATE	INITS
PBTROLBUN HYDROCAREONS		.5	NG7K <u>G</u>	11/21/21	CAD
SOLIDS, TOTAL PRECENT	<u> </u>		i. N	11:20/91	CAD

APPENDIX B

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HANDEX OF NEW ENGLAND INC. 398 CEDAR HILL STREET MARLBOROUGH, MA 01752 DATE: 11/24/91 JOB No: 910888N PROJECT No: 105222-01 SAMPLE RECEIVED: 11/15/91

ATTN: J. ITALIANO

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SAMPLE No		LECTED TIME	BY	POINT OF COLLECTION			
E1028CON	11/07/91	10:00	JM	SOIL - POST EXCAVATION FUEL OIL TANKFIELD; TEXACO S/S, 881 EDGELL ROAD, FRAMINGHAM, MA			
E102801N	11/07/91	10:15	JM	SOIL - POST EXCAVATION WASTE OIL TANKFIELD BOTTOM; TEXACO S/S, 881 EDGELL ROAD, FRAMINGHAM, MA			

SAMPLE SUMMARY

16 B

CBRTIFICATIONS: NASSACSUSETTS (MAI/1)



SAMPLE NO	COLI DATE	LECTED TIME	ВҮ	POINT OF COLLECTION			
E102800N	11/07/91	10:00	JM	SOIL - POST EXCAVATION FUEL OIL TANKFIELD; TEXACO S/S, 881 EDGE ROAD, FRAMINGHAM, MA			
TEST DESCRIPTION			RESULT	NDL UNITS DATE INI			

PURGBABLE ARONATICS					
BENZENE	<u>ND</u>	5.4	U <u>G/NG</u>	11/18/91	SDB
BTHYLBENZENE	<u>ND</u>	5.4	<u> </u>	11/18/91	SDB
TOLUBNE	<u>ND</u>	5.4	UG/KG	11/18/91	<u>SD8</u>
XYLENES, TOTAL	<u>ND</u>	5.4	96783_	1.1891	SD8

JOHN HANILTON LAB DIRECTOR



SAMPLE NO	COLLECTED DATE TIME BY		ВҮ	POINT OF COLLECTION
E102800N	11/07/91	10:00	JM	SOIL - POST EXCAVATION FUEL OIL TANKFIELD; TEXACO S/S, 881 EDGELL ROAD, FRAMINGHAM, MA

TEST DESCRIPTION	RESULT	MDL	UNITS	DATE	INITS
PBTROLBUN HYDROCARBONS		<u> </u>	<u>MG/NG</u>	11/21/91	CAD
SOLIDS, TOTAL PERCENT	<u>4)</u>	2.0	÷.	11/20/91	CAD

JOHN HANILTON LAB DIRECTOR



SAMPLE NO	COLI DATE	LECTED TIME	ВУ	POINT OF COLLECTION				
E102801N	11/07/91	10:15	ЈМ	SOIL - POST EXCAVATION WASTE C TANKFIELD BOTTOM; TEXACO S/S, EDGELL ROAD, FRAMINGHAM, MA				
TEST DESCRIPTION			RESULT	MDL	UNITS	DATE	INIT	
PURGBABLE AROMATICS								
BENZENE			ND	<u></u>		13 <u>18791</u>	SDB	
BTHYLBBNZBNS			ND	<u>1,</u> +	11+3	1 <u>1,18/91</u>	SDB	
TCLUBNB		·····	ND	<u> </u>		<u>19791</u>	SD 8	
XYLENBS, TOTAL			ND	5. {	1.1	11-18 (9 <u>1</u>	SDE	

JOEN RANILTON LAB DIRECTOR



SAMPLE NO	COLLECTED DATE TIME BY		BY	POINT OF COLLECTION
E102801N	11/07/91	10:15	JM	SOIL - POST EXCAVATION WASTE OIL TANKFIELD BOTTOM; TEXACO S/S, 881 EDGELL ROAD, FRAMINGHAM, MA

TEST DESCRIPTION	RESULT	NDL	UNITS	DATE	INIT
PETROLBUN HYDROCARBONS		<u> </u>	NG. <u>KG</u>	11/21/91	CAD
SOLIDS, TOTAL PERCENT		1 _ 1 1 _ 9	ι.	11/20/91	CAD

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ATTACHMENT 2

ENVIRONMENTAL SITE ASSESSMENT

Texaco Service Station 881 Edgell Road Framingham, Massachusetts

October 24, 1991

Prepared For:

Star Enterprise 520 Allen Avenue Providence, Rhode Island

Prepared By:

Handex of New England, Inc. 398 Cedar Hill Street Marlboro, MA 01752



ENVIRONMENTAL SITE ASSESSMENT Texaco Service Station 881 Edgell Road Framingham, MA

INTRODUCTION

This report presents the results of an Environmental Site Assessment conducted at the Star Enterprise service station located at 881 Edgell Road, Framingham, Massachusetts. The assessment was performed in accordance with specifications provided by Star Enterprise for conducting environmental site assessments.

SITE LOCATION AND DESCRIPTION

The service station is located on the east side of Edgell Road approximately 200 feet south of the intersection of Edmands and Edgell Roads. Figure 1 is a Locus Map constructed from the Framingham 7.5 minute USGS quadrangle map showing the site in relation to surrounding surface features, topography and drainage.

The service station property is relatively flat. The immediate area surrounding the service station slopes downward to the east. The area surrounding the service station consists of predominantly commercial properties. There are at least two other service stations located within 500 feet of the site. West of the station, across Edgell Road, are an Exxon service station, a commercial auto shop, and a auto lubrication facility. A Mobil service station is located in the northwest corner of the intersection of Edgell and Edmands Roads. North of the site is an office building. To the east and south of the site are commercial shopping plazas.

Figure 2, a Site Plan, illustrates pertinent site features. The service station building is located near the center of the property. The building contains a service bay in the southern portion and office, storage, and restrooms in the northern portion. To the west of the building are two gasoline pump islands. Underground gasoline storage tanks are located west of the building. Fuel and waste oil tanks were located east and west of the building, respectively.



A 6-inch water main, under Edgell Road, is connected to an underground water line entering the property from the west. Aboveground electric and telephone lines enter the station property from the southeast. The sanitary sewer service leaves the building to the north and connects to a main line under an access road. The station building is heated by fuel oil supplied by an underground tank east of the building.

According to Mr. Everett Skinner of the Framingham Department of Public Works drinking water is supplied to Framingham by the Massachusetts Water Resource Authority (MWRA). The MWRA supply is from the Quabbin Reservoir, 40 miles to the west. According to Mr. Skinner, Framingham is presently seeking a permit to bring on-line a 2.6 million gallon per day water supply well located roughly three miles to the east. Presently, there are no public or private water supply wells located within one quarter mile of the service station.

INVESTIGATIVE PROCEDURE

Three soil borings (SB-1 through SB-3) were advanced via the hollow stem auger drilling method on October 3, 1991. SB-4, SB-5 and W-1 were advanced by air rotary drilling method. Well W-1 is located in the southwestern corner of the property. Only one monitoring well was completed on this site due to the shallow bedrock and relatively deep water table in the area. Borings SB-1 through SB-5 were drilled to the top of bedrock. Figure 2 shows the location of all borings and Well W-1. Soil samples were collected from drill cuttings. Each soil sample was classified in the field by a hydrogeologist and screened for the presence of volatile organic vapors with an HNu Model PI 101 photoionization detector, utilizing the jar head-space technique. Any evidence of hydrocarbons encountered during boring excavations was indicated in the field loq.

One soil sample from each boring which exhibited the highest HNu response (or the sample collected at the water table) was submitted to a Accutest Laboratories, Marlboro, Massachusetts for total petroleum hydrocarbon (TPH) analysis. Appendix A contains boring logs.

Well W-1 was completed as a typical 4-inch diameter monitoring well consisting of schedule 40, flush-joint and threaded PVC riser and 20 slot well screen. The annular space around the monitoring well screen was packed with #1 Morie well gravel from the base of the well screen to approximately two feet above the well screen/riser contact. A bentonite seal was installed above the gravel pack to



prevent the infiltration of surface water into the well. Well W-1 was fitted with a locking well cap, water tight seal and Handex security tie inside a 10-inch diameter manhole sealed at the surface with cement. Monitoring well construction details are included on the boring logs in Appendix A.

Well W-1 was developed to remove fine grained sediments by mechanical surging using a 4-inch diameter bailer. The relative elevation of the well casing was not surveyed, because a single elevation point would not allow determination of ground water flow direction.

Ground-water samples were collected from well W-1 on October 4, 1991. Prior to sampling, liquid level was gauged with an electronic interface probe to the nearest 0.01 foot to detect the presence of any separate phase hydrocarbons and the exact depth to ground water. The depth to water was 16.20 feet. The well was purged of at least three well volumes using a clean acrylic bailer to ensure that a representative ground water sample was obtained. The ground-water sample was obtained using a clean teflon bailer, placed in 40 ml a vial, preserved with HCl and maintained at 4 degrees celsius for transport to Accutest Laboratories. The sample was analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 602.

SITE HYDROGEOLOGY

Soils encountered in W-1 and soil borings SB-1 through SB-5 consisted of a brown, fine to coarse grained sand with some gravel to a maximum depth of approximately 17 feet below ground surface. Bedrock was encountered between 6 and 17 feet. W-1 was completed at a depth of 20 feet, three feet into bedrock, with 12 feet of screen from 20 to 8 feet.

Ground water was encountered at approximately 16 feet below ground surface in well W-1. A water table contour map, is not possible with the available ground-water data. However, from regional topography it is inferred that ground-water flow is to the east towards a low marshy area. Figure 2 shows the inferred groundwater flow direction with respect to site features.

SOIL QUALITY DATA

Soil samples screened by headspace analysis during boring excavations indicated minor levels of volatile organic vapors in SB-3, SB-4, and W-1. HNu readings ranged from 0 (non detectable) to 25 ppm. Table 1 is a summary of the field screening results.



Total Petroleum Hydrocarbons values ranged from 0 to 200 ppm in the soil samples. Total petroleum hydrocarbons were found in soil samples collected from borings SB-2, SB-4, SB-5 and W-1, at 34, 33, 200, and 130 ppm respectively. Borings SB-1 and SB-3 did not have detectable levels of TPH in the soil. Table 2 is a summary of the soil sample intervals and the soil quality data. Appendix B contains laboratory analysis sheets for the soil samples.

GROUND-WATER QUALITY DATA

Separate phase product was not detected on the water table surface in well W-1. Analysis of the ground-water sample from W-1 indicated all BTEX compounds were non-detectable. Table 3 presents a summary of ground water quality. Laboratory analysis sheets are attached as Appendix B.

SUMMARY OF FINDINGS

The City of Framingham receives its water supply from the Quabbin Reservoir, 40 miles to the west. There are no public or private water supply wells located within 1,000 feet of the service station.

Only one ground-water monitoring well could be installed on-site due to the shallow bedrock and relatively deep water table. Natural soils observed in well W-1 and soil borings SB-1 through SB-5 consist of a brown sand, fine to coarse grained, to a maximum depth of 17 feet below ground surface. Bedrock was encountered at depths between 6 and 17 feet.

Ground water occurs at a depth of approximately 16 feet below grade in well W-1. Ground-water flow is inferred to be towards the east. Separate phase product was not detected on the water table surface in well W-1.

Laboratory analyses performed on soil samples collected from each boring indicated TPH levels ranging from 0 to 200 ppm in soil samples analyzed.

Laboratory analyses performed on ground-water samples collected from well W-1 found no detectable levels of BTEX compounds.



TABLE 1								
	ORGANIC VAPOR ANALYSIS							
TEXACO SERVICE STATION 881 Edgell Road Framingham, Massachusetts								
BORING #	DEPTH (FEET)	CONCENTRATION (PPM)						
SB-1	6	0						
SB-2	4 10	0 0						
SB-3	4 11	0 10						
SB-4	5 10 15	0 0 10						
W-1	5 10 15	0 0 25						
NOTE: Soil samples collected October 3, 1991								

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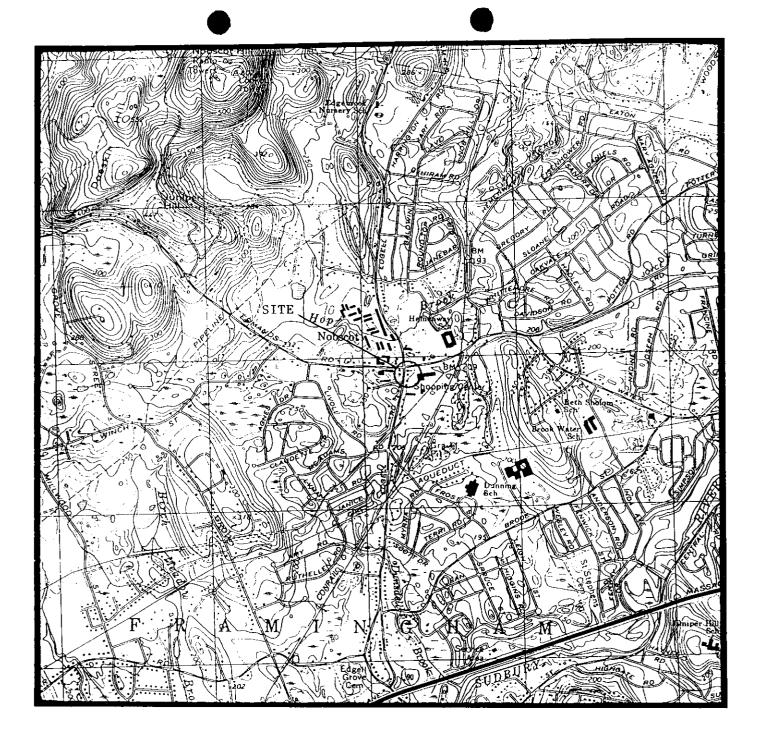


Table 2 SUMMARY OF SOIL QUALITY DATA Samples Collected 10/3/91 Texaco Service Station							
	gell Road, Framinghar	n, MA					
	Parameter						
Sample Sample Total Petroleum Location Depth Hydrocarbons							
SB-1	10'	<25					
SB-2	13'	34					
SB-3	5'	<25					
SB-4	10'	33					
SB-5	51	200					
W-1 15' 130							
Notes: 1) Samples analyzed via EPA method 418.1 for TPH. 2) Concentrations are in parts per million (ppm). 3) ND = Not Detected at the method detection limit.							

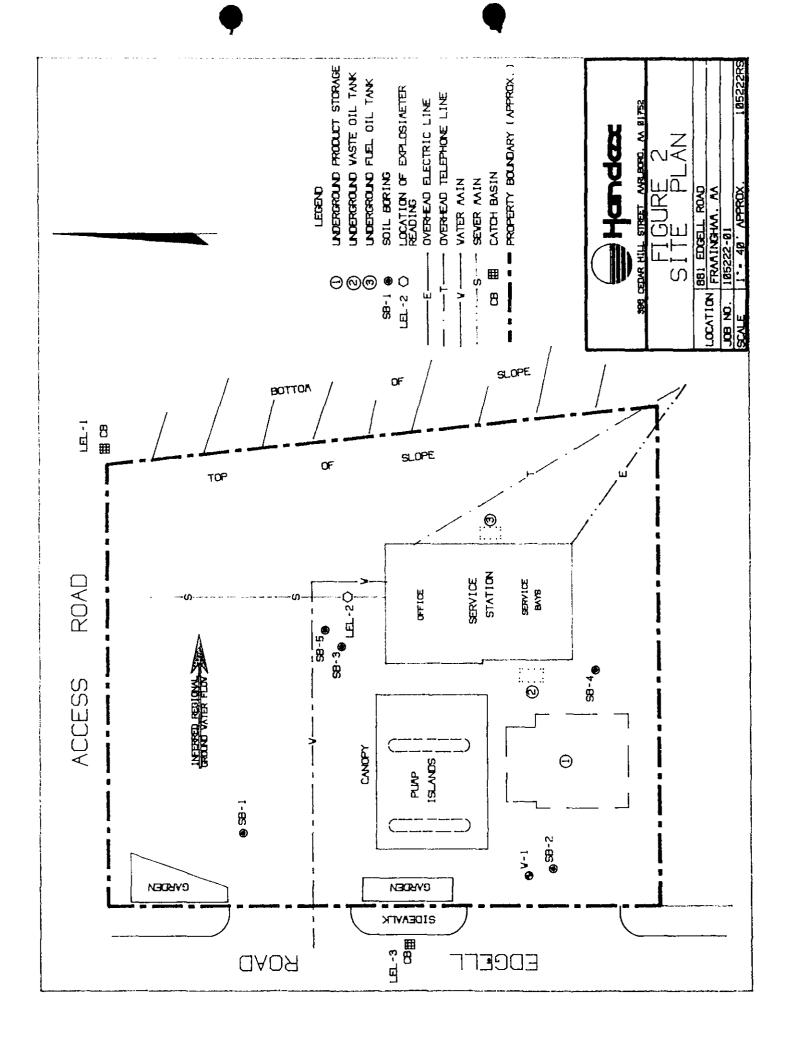


Table 3							
SUMMARY OF GROUNDWATER QUALITY DATA Samples Collected 10/4/91 Texaco Service Station 881 Edgell Road, Framingham, MA							
Parameter							
Sample Location	Ethyl- Benzene Toluene benzene			Xylene	Total BTEX		
W-1	ND	ND	ND	ND	ND		
Notes: 1) Samples analyzed for BTEX via EPA method 602. 2) Concentrations are in ug/l (ppb). 3) ND = Not Detected at the method detection limit.							





SHE CEDAR HILL STREET AARLBORD, M. 81752						
	FIGURE I Locus Map					
LOCATION	BB1 EDGELL ROAD FRAAINGHAA. Αλ					
JOB NO. SCALE	105222-01 1 - 2000 APPROX.					





HANDEX OF NEW ENGLAND, INC., 398 Cedar Hill Street, Marlboro, MA (01752 • (508) 481 5750 • FAX (508) 481 5159

BORING LOG	
BURING LUG Well No. W-1 Application No. Date Drilled 10/03/91 County Middle Location Texaco Service Station, 881 Ed	esex SeMonitoring
Ocation Texaco Service Station, 881 E	dgell Road, Framingham, MA
Owner Star Enterprise Address 5. Drilling Method Air Rotary Sa Hole Diameter 12"	Impling Method Total Depth20'
Casing: TypePVC Schedule 40	
Caroon	
Schedule 40 Slot 0. Type PVC Schedule 40 Slot 0. Gravel Pack Size #1 Morie Well Sand Casing Static Water Level Geologic	ic Formation

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER	WELL DESIGN		IDENTIFICATION OF SOILS/REMARKS
				0'-10'	Light Brown fine to coarse SAND, fine to coarse Gravel.
		HNu = 0 ppm	CASING	10'-16'	Light Green fine to medium SAND and SILT, fine to medium Gravel.
10		· · · · · · · · · · · · · · · · · · ·		16'-20'	BEDROCK
		HNu = 0 ppm			
			SCREEN		
		HNu = 25 ppm	MELL S	1	
20					
30					
			-		
			_		



HANDEX OF NEW ENGLAND, INC., 398 Cedor Hill Street Marlboro. MA: 01752 • (508) 481-5750 • FAX (508) 481-5159

Well No. SB-1 Date Drilled 1070 Location Texa	Application	n No	··· • •	Perm	nit No. 💷			
Date Drilled 10/0	$\frac{03/91}{0}$ Co	unty <u>Mid</u>	dlesex		_Use_	ngham	мх	
Location Texa Owner Star	CO Service S	Address	Eager1	Road,		rovider	CA RT	
Uwner	Hollow Stem	Address	Compling	Mathad	Dri	11 Cutt	ings	
Drilling Method	12"		Sampling		To	tal Depth	6'	
Casing: Type						_ Length .		
Screen:	NA	Slot	NA	Diameter	NA	Lenath	ΝА	
Gravel Pack Size _ Static Water Level		Casi Geo	ing Seal logic Forma	ation	NA			

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER	WEL1 DESIGN		IDENTIFICATION OF SOILS/REMARKS
				0'-0'2"	ASPHALT
		HNu = 0 ppm		0'2"-4'	Light Brown fine to coarse SAND, fine to coarse Gravel.
				4'-6'	Dark Brown fine to coarse SAND, fine to coarse Gravel, trace (-) Cobbles.
10				6 '	REFUSAL
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		+ -·· -································			
20					
		· · · · · · · _ · · _ / = \cdot _ · _ · _ · _ / = \cdot _ · _ / = \cdot _ = \cdot = \cdot			
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HANDEX OF NEW ENGLAND, INC., 398 Cedar Hill Street, Marlboro, MA: 01752 • (508) 481-5750 • FAX (508) 481-5159

Well No. SB-2 Date Drilled 10/0 Location Texa	Application	No		Perm	nit No. 💷			
Date Drilled 10/0	<u>3/91 </u>	Inty <u>Mid</u>	dlesex		_ Use			
Location Texa	<u>co Service St</u>	<u>ation, 881</u>	Edgell	Road,	Frami	ngham,	<u>MA</u>	
Owner Star	Enterprise	Address	520 Al	lens Av	/e., P	roviden	ice, RI	
Drilling Method	Hollow Stem	Auger	Samoling	Method	Dri	ll Cutt	ings	
Hole Diameter	12"				To	tal Depth _	10'	
Casing: Type	NA			Diameter	NA	Length .	NA	
Screen:								·
Type Gravel Pack Size Static Water Level		Cas Geo	ing Seal logic Forma	ation	NA			··· ····

DEPTH BELOW SURFACE	Sample Number	BLOWS PER 6" ON SAMPLER	WELL DESIGN		IDENTIFICATION OF SOILS/REMARKS
r				0'-0'2"	ASPHALT
		HNu = 0 ppm		0'2"-4'	Light Brown fine to coarse SAND, fine to coarse Gravel, trace (-) Cobble.
		· · · · · · · · · · · · · · · · · · ·		4'-10'	Dark Brown fine to coarse SAND.
10		HNu = 0 ppm		10'	REFUSAL
				•	
20					
		· · · · · · · · · · · · · · · · ·	1		
			-		
30					
			-1		
			-		-



HANDEX OF NEW ENGLAND, INC., 398 Cedar Hill Street, Marlboro, MA. 01752 • (508) 481 5750 • FAX (508) 481 5159

Well Nos	<u>в-з</u> Арг	olication No. County Ce Station, rise Add			Perm	it No.			
Date Drilled <u>1</u>	0/03/91 ''	County	Midd	lesex		Use			
Location T	exaco Servi	ice Station,	, 881)	Edgell	Road,	Frami	ngham,	<u>MA</u>	
Öwner s	tar Enterpr	rise Add	ress	520 Al:	lens Av	re., E	Provider	nce, RI	
Drilling Method	Hollow	Stem Auger	Ş	Samoling	Method	Dri	11 Cutt	lings	
Hole Diameter	12"	Stem Auger				TC	otal Depth	<u> 11'</u>	
Casing									
Screen:									
Gravél Pack Siz Static Water Le	vel		_ Casing _ Geolo	g Seal gic Forma	ition	AN	· -·· · · · · · · · · · · · · · · · ·		

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER	WELL DESIGN		IDENTIFICATION OF SOILS/REMARKS
		HNu = 0 ppm		0'-0'2"	ASPHALT
				0'2"-4'	Light Brown fine to coarse SAND, fine to coarse Gravel.
				4'-10'	Dark Brown fine to coarse SAND, fine to coarse Gravel.
10		HNu = 10 ppm		10'-11'	Light Green fine to medium SAND and SILT.
		· · · · · · · · · · · · · · · · · · ·		11'	REFUSAL
		······································			
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			{		
			4		
		<u> </u>			



HANDEX OF NEW ENGLAND, INC., 398 Cedar Hill Street, Mariboro, MA. 01752 • (508) 481 5750 • FAX (508) 481 5159

Well No.	SB-4	Applicati	ion No.			Perm	nit No.			
Date Drilled	10/03	3/91 (County	Mide	dlesex		_ Use _	 .		
Location	Texac	co Service	Station,	881	Edgell	Road,	Fram	ingham,	MA	
Owner	Star	Futornrico	a Add	000	- 500 AT	Long Al		rovider	юе к	I
Drilling Meth	od	Air Rotary	,		Samplino	Method	Dr	11 Cutt	ings	
Hole Diamete	er	Air Rotary 12"					Te	otal Depth	17'	
Casing: Type								Length		
Screen.				Slot	NA	Diameter	NA	Length .	NA	
Gravel Pack S Static Water I	Size Level	NA		_ Casi _ Geol	ng Seal ogic Form	ation	NA 			

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOW'S PER 6" ON SAMPLER	WELL DESIGN	IDENTIFICATION OF SOILS/REMARKS					
				0'-0'3"	ASPHALT				
		HNu = 0 ppm		0'3"-15'	Light Brown fine to coarse SAND and fine to coarse GRAVEL.				
				15'-17'	Brown Light Green fine to medium SAND and (+) SILT, fine to medium Gravel.				
_10		HNu = 0 ppm		17'	REFUSAL				
		HNu = 10 ppr	1						
			•						
20]						
			4						
30									
			-						
		+	1						
			-						



HANDEX OF NEW ENGLAND, INC., 398 Cedar Hill Street, Marlboro, MA. 01752 • (508) 481-5750 • FAX (508) 481-5159

Well No. SB-5	Application N	NO Permit NO NyMiddlesex Use ation, 881 Edgell Road, Framingham, MA	
Date Drilled 10/0	13/91 Count	Ny Middlesex Use	
Location <u>Texa</u>	co Service Sta	ation, 881 Edgell Road, Framingham, MA	
- Owner Star	Enterprise	Address 520 Allens Ave., Providence, RI	
Drilling Method	Air Rotary	Sampling Method Drill Cuttings	
	12"	Sampling MethodTotal Depth 23	
Casing: Type	NA	Diameter <u>NA</u> Length <u>NA</u>	
Scréen: Type	NA	Slot <u>NA</u> Diameter <u>NA</u> Length <u>NA</u>	
Gravel Pack Size Static Water Level _	· · · · · · · · · · · · · · · · · · ·	Casing Seal NA Geologic Formation	···· ·

DEPTH BELOW SURFACE	Sample Number	BLOWS PER 6" ON SAMPLER	WELL DESIGN	IDENTIFICATION OF SOILS/REMARKS					
				0'-0'3"	ASPHALT				
				0'3"-13'	Light Brown fine to coarse SAND, Cobbles, fine to coarse Gravel.				
				13'-15'	Light Brown fine to coarse SAND and fine to coarse GRAVEL.				
				15'-18'	Light Brown/Green GRAVEL.				
·				18'-23'	Bedrock, Refusal				
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HANDEX OF NEW ENGLAND INC. 398 CEDAR HILL STREET MARLBOROUGH, MA 01752 DATE: 10/18/91 JOB No: 910726N PROJECT No: 105222-01 SAMPLE RECEIVED: 10/07/91

> JOHN BANILTON LAB DIRECTOR

ATTN: J. ITALIANO

SAMPLE No	COLI DATE	LECTED TIME	ВҮ	POINT OF COLLECTION					
E102295N	10/03/91	09:40	м	SOIL - SB-1, 10'; TEXACO S/S, 881 EDGELL ROAD, FRAMINGHAM, MA					
E102296N	10/03/91	10:40	JM	SOIL - SB-2, 13'; TEXACO S/S, 881 EDGELL ROAD, FRAMINGHAM, MA					
E102297N	10/03/91	12:00	ЈМ	SOIL - W-1, 15'; TEXACO S/S, 881 EDGELL ROAD, FRAMINGHAM, MA					
E102298N	10/03/91	12:30	JM	SOIL - SB-3, 5'; TEXACO S/S, 881 EDGELL ROAD, FRAMINGHAM, MA					
E102299N	10/03/91	13:00	ЈМ	SOIL - SB-4, 10'; TEXACO S/S, 881 EDGELL ROAD, FRAMINGHAM, MA					
E102300N	10/03/91	14:30	м	SOIL - SB-5, 5'; TEXACO S/S, 88 EDGELL ROAD, FRAMINGHAM, MA					

SAMPLE SUMMARY

CERTIFICATIONS: MASSACHUSETTS (MA136)



SAMPLE NO	COLLECTED DATE TIME BY			POINT	F OF COLLECTION			
E102295N	10/03/91	09:40	ЛМ	SOIL - SB-1, EDGELL ROAD,			881	
TEST DESCRIPTION			RESULT	NDL	UNITS	DATE	INI TS	

PETROLEUN HYDROCARBONS	<25	25	NG/KG	10/11/91	BPO
SOLIDS, TOTAL PERCENT	94	2.0	<u></u>	10/10/91	HBM

JOBN HAMILTON LAB DIRECTOR



SOLIDS, TOTAL PERCENT

ANALYSIS REPORT

SAMPLE NO		LECTED TIME	BY	POINT OF COLLECTION			
E102296N	10/03/9 1	10:40	JM	SOIL - SB-2, 13'; TEXACO S/S, 88: EDGELL ROAD, FRAMINGHAM, MA			
TEST DESCRIPTION			NDL	UNITS	DATE	INITS	
PETROLEUN HYDROCARBONS 34				25	NG/KG	10/11/91	BPO

2.0

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10/10/91

HBM

95

UG/KG = PPB NG/KG = PPN NDL = NBTBOD DBTECTION LIMIT ALL RESULTS REPORTED ON A DRY WEIGHT BASIS NASSACHUSETTS CERTIFICATION: NA136

JOHN HANILTON LAB DIRECTOR



SAMPLE NO	COLLECTED DATE TIME BY						
E102297N	10/03/91	12:00	ЛМ	SOIL - W-1, 15'; TEXACO S/S, 881 EDGELL ROAD, FRAMINGHAM, MA			
TEST DESCRIPTION	TEST DESCRIPTION			KDL	UNITS	DATE	INITS
PETROLEUN HYDROCARBONS 130			130	25	NG/KG	10/11/91	BPO
SOLIDS, TOTAL PERCENT 96				2.0	ł	10/10/91	<u>BBN</u>

JOEN HANILTON LAB DIRECTOR



SAMPLE NO	COLLECTED DATE TIME BY			POINT	POINT OF COLLECTION			
E102298N	10/03/91	12:30	JM	SOIL - SB-3, 5'; TEXACO S/S, 881 EDGELL ROAD, FRAMINGHAM, MA				
TEST DESCRIPTION			RESULT	NDL.	UNITS	DATE	INITS	
PETROLEUM HYDROCARBONS <25			<25	25	NG/K <u>G</u>	10/16/91	SAP	
SOLIDS, TOTAL PERCE	4 <u>1</u>		2.0	1	10/10/91	HBN		

JOHN HAMILTON LAB DIRECTOR

495 Technology Center West • Building One • Marlborough, MA 01752-1861 • (508) 481-6200

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SAMPLE NO	COLI DATE	LECTED TIME	BY	POINT	T OF COLLECTION		
E102299N	10/03/91	13:00	JM	SOIL - SB-4, 10'; TEXACO S/S, 881 EDGELL ROAD, FRAMINGHAM, MA			
TEST DESCRIPTION			RESULT	NDL	UNITS	DATE	INI T S
PBTROLBUN HYDROCARBONS			33	25	NG/KG	10/16/91	SAP
SOLIDS, TOTAL PERCENT 93				2.0	8	10/10/91	HBM



SAMPLE NO	COLI DATE	LECTED TIME	ВҮ	POINT OF COLLECTION					
E102300N	10/03/91	14:30	JM	SOIL - SB-5, 5'; TEXACO S/S, 88 EDGELL ROAD, FRAMINGHAM, MA					
TEST DESCRIPTION			RESULT	NDL	UNITS	DATE	INITS		
PETROLBUN HYDROCARBONS 200			200	25	<u> </u>	10/16/91	SAP		

PETROLEUM HYDROCARBONS	200	25	NG/KG	10/16/91	SAP
SOLIDS, TOTAL PERCENT	92	2.0	<u> </u>	10/10/91	HBN

JOHN BANILTON LAB DIRECTOR

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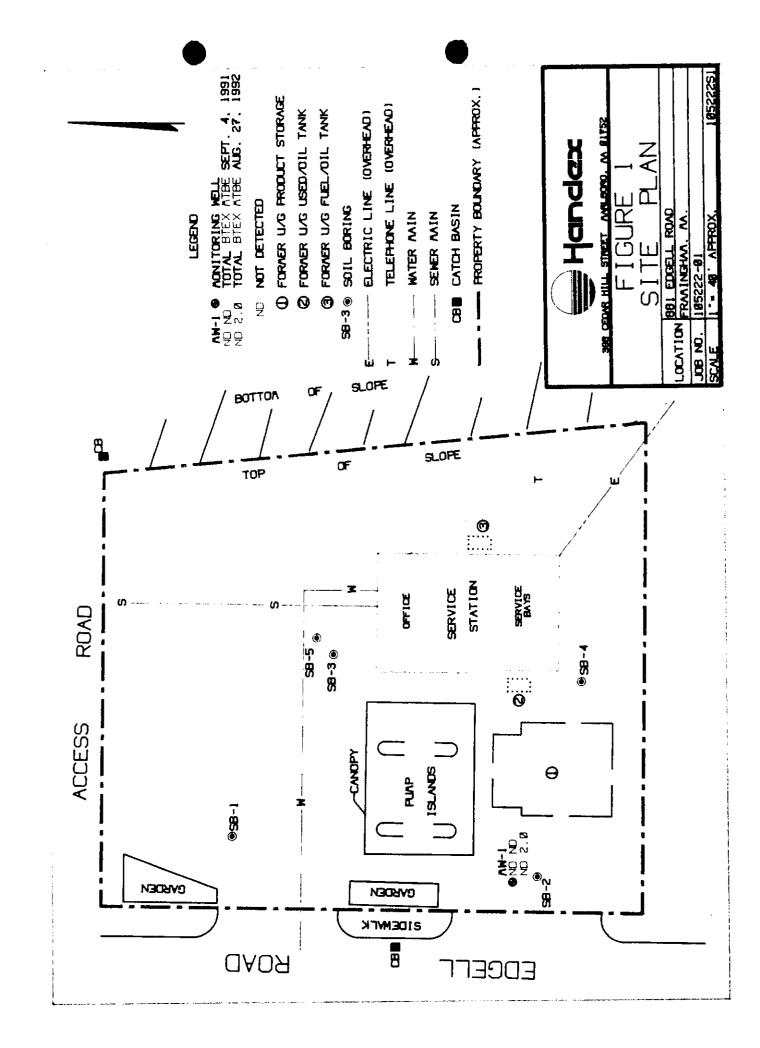
SAMPLE(S)	: E102295N .E	102296N ,	E102297N								
TBST	: PETROLEUN	HYDROCARB	ONS								
	DUPLICA	 TE			нат	RIX SPIKE			1	NETHOD	 Blank
ORIGINAL	DUPLICATE	UNITS	<u>rpd</u>	ORIGINAL	AKT.SPK	SPK.RES	UNITS	REC	DET.LIM	UNITS	<u>KETE.BLAN</u>
<25	26,500	KG/KG	NC	<25	266.000	215.000	NG/KG	80	25	NG/KG	<25
ONNERTS :											
			•						<u> </u>		
		102299N .	E1023001			\$38:178111		*******			
SAMPLE(S)	: E102298N ,E : PETROLEUN			1				******			
SAMPLE(S)	: E102298N ,E	HYDROCARB		1		RII SPIKE		*******		NETHOD	
SAMPLE(S) Test	: E102298N ,E : PETROLEUN	HYDROCARB			HAT ANT.SPK		UNITS	<u></u>	 DBT.LIK	METHOD UNITS	BLANK <u>NBTH, BLAN</u>
SAMPLE(S)	: E102298N ,E : PETROLEUN DUPLICA	HYDROCARB	ONS		AKT.SPK		UNITS Ng/Kg	<u> </u>	 DBT.LIM 25		

LABORATORY CHRONICLE

ACCUTEST JOB #.....910726N DATE SAMPLES RECEIVED......10/07/91

SAMPLE #	SAMPLE DATE	ANALYTE	KETHOD	INITIAL PREP.	FINAL PREP.			REPORTED ANALYSIS	
E102295N	10/03/91	SOLIDS, TOTAL PERCENT	BPA 160.3M				10/10/91	10/10/91	HBN
B102295N	10/03/91	PETROLEUN HYDROCARBONS	BPA 418.1M	10/10/91	10/10/91	SAP	10/11/91	10/11/91	BPO
E102296N	10/03/91	SOLIDS, TOTAL PERCENT	BPA 160.3M				10/10/91	10/10/91	HBK
B102296N	10/03/91	PETROLEUN HYDROCARBONS	5PA 418.1M	10/10/91	10/10/91	SAP	10/11/91	10/11/91	BPO
B102297N	10/03/91	SOLIDS, TOTAL PERCENT	BPA 160.3N				10/10/91	10/10/91	HBK
B102297N	10/03/91	PETROLEUN HYDROCARBONS	BPA 418.1K	10/10/91	10/10/91	SAP	10/11/91	10/11/91	BPO
E102298N	10/03/91	SOLIDS, TOTAL PERCENT	EPA 160.3M				10/10/91	10/10/91	HBM
E102298N	10/03/91	PETROLEUN HYDROCARBONS	BPA 418.1N	10/16/91	10/16/91	SAP	10/17/91	10/17/91	SAP
E102299N	10/03/91	SOLIDS, TOTAL PERCENT	EPA 160.3M				10/10/91	10/10/91	HBK
E102299N	10/03/91	PETROLEUN HYDROCARBONS	EPA 418.1N	10/16/91	10/16/91	SAP	10/17/91	10/17/91	SAP
E102300N	10/03/91	SOLIDS, TOTAL PERCENT	BPA 160.3M				10/10/91	10/10/91	HBK
E102300N	10/03/91	PETROLEUN HYDROCARBONS	BPA 418.1M	10/16/91	10/16/91	SAP	10/17/91	10/17/91	SAP

MANAGER _____ DATE ____ DATE _____ /2 / 2/ 9/





HANDEX OF NEW ENGLAND INC. 398 CEDAR HILL STREET MARLBOROUGH, MA 01752 DATE: 10/14/91 JOB NO: 910730N PROJECT NO: 105222-01 SAMPLE RECEIVED: 10/07/91

ATTN: J. ITALIANO

SAMPLE No		COLLECTED DATE TIME BY		POINT OF COLLECTION
E102316N	10/04/91	10:35	SH	GROUND WATER - W-1; TEXACO S/S, 881 EDGELL ROAD, FRAMINGHAM, MA

SAMPLE SUMMARY

JOHN BANILTON LAB DIRECTOR

CERTIFICATIONS: MASSACHUSETTS (MA136)



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ANALYSIS REPORT

SAMPLE NO	COLI DATE	LECTED TIME	ВҮ	POINT OF COLLECTION					
E102316N	10/04/91	10:35	SH	GROUND WATER - W-1; TEXACO S/S, 881 EDGELL ROAD, FRAMINGHAM, MA					
TEST DESCRIPTION	<u> </u>		RESULT	NDL	UNITS	DATE	INITS		
PURGEABLE ARONATICS									
BENZENE			ND	1.0	UG/L	10/11/91	SDB		
STHYLBENZENE			ND	1.0	UG/L	10/11/91	SDR		
TOLUENE		· ······	ND	1.0	UG/L	10/11/91	SDB		
XYLENES, TOTAL				1.0	UG/L	10/11/91	SDB		

JOHN HANILTON LAB DIRECTOR

MASSACHUSETTS CERTIFICATION: MA136

LABORATORY CHRONICLE

ACCUTEST JOB #.....910730N DATE SAMPLES RECEIVED.....10/07/91

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ACCUTEST SANPLE INITIAL FINAL PREP. INITIAL REPORTED ANALYST SANPLE 1 DATE ANALYTE NETHOD PREP. PREP. INITIALS ANALYSIS ANALYSIS INITIALS E102316N 10/04/91 PURGEABLE AROMATICS EPA 602 10/11/91 10/11/91 SDE

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AL MANAGER

DATE <u>10 / 14 / 9/</u>

3-4005

StarEnterprise

520 Allens Avenue P O Box 2007 Providence RI 02905 401 785 3260

April 23, 1991

Mr. Steve Johnson Department of Environmental Protection Northeast Region 10 Commerce Way Woburn, Massachusetts 01801

Re: Tank Removal Procedure Report Star Enterprise Service Station 881 Edgell Road Framingham, Massachusetts

Dear Mr. Johnnson:

Enclosed is the Tank Removal Procedure Report for the above location.

Should you have any questions, please do not hesitate to call.

Sincerely, STAR ENTERPRISE

& a Saltot **Robert Gulick**

Environmental Coordinator

cc: JFL w/a Joe Italiano, HNE w/o ENV FILE w/a

MEVELECTION FOLLIE
 MEVELSS FILE
 MESS SCHEDE

July 11, 1994

Ida Babroudi Department of Environmental Protection Northeast Regional Office 10 Commerce Way Woburn, MA 01801

RE: Response Action Outcome Statement DEP Case No. 3-4005 Waiver Site Star Enterprise No. 11-143-175 881 Edgell Road Framingham, Massachusetts

Dear M. Babroudi:

Enclosed with this letter is a Response Action Outcome (RAO) Statement prepared for the above location. The RAO includes a Method 1 Risk Characterization demonstrating no risk of harm to health, public welfare and the environment and a completed RAO Statement Form.

1 rearrandor

This site closure document was prepared in accordance with M.G.L.C.21E. We anticipate future reimbursement in accordance with M.G.L.C.21J.

Please contact me if you require any additional information.

Sincerely. STAR ENTERPRISE

MAA. Shhol

Robert A. Gulick Environmental Coordinator

Attachments

cc: EKW w/a Michael Bingham w/o ENV FILE w/a

The Following Document Contains

Some Poor Quality

Originals



Massachusetts Department of Environmental Protection Bureau of Waste Site Gleanu

RESPONSE ACTION OUTCOME (RAO) STATEMENT (pursuant to 310 CMR 4071056)

A. RELEASE OR THREAT OF RELEASE LOCATION Station Release Name if Proviously Assigned (classified sites only): Lor me Street: 881 Edge 11 Road Seree Water Streot:

City/Town: Framingham Additional Release Tracking Numbers Add

Provide a clear and accurate description of the local site to which the EAO applies, as specified in 310 CMB Is a site or disposal site map of survey attached to the FAD Statent

Does this RAO apply to a portion of a disposal Statement to any other RAO statements that additional response actions are needed for any other porp

B. PERSON SUBMITTING RAD STATEMENT Name of Organization: Star Eliterphis

Stoet _ 520 Allens Avenue Providence

City/Town: ____ Telephone: 401 - 785 * -3260,

C. RELATIONSHIP TO RELEASE OR THREAT OF RELEASE OF PERSON SUBMITTING RADIS (check one/specify)

x RP Specify (circle one

PAP Specify (circle one

Fiduciary/Secured Lender Agency/Rublic Utility on a Right of Way

Other Person:

D. RESPONSE INFORMATION

RAO Status vas initial notification oral? a Release Notification F

Vas a RNE Dr a RAO Complia

E. RAO INFORMATION

Was contamination reduced Is this RAO based upon the Fyes, indicate the t Date filed with Rec Book/Page Nut

Attach to this BA 40 1070 and a Will Post-RAO Operation a No 🖓 🗹 Attach to this RAO Statemen those conditions at the di

site or portio theirelations a stajement as to

02905



Massachusetts Department of Environmental Protection BW Bureau of Waste Site Cleanup RESPONSE ACTION OUTCOME (RAO) STATEMENT (pursuant to 310 CMR 40.1056

F. RESPONSE ACTIONS COMPLETED

(Check all that apply).

TYPE OF RESPONSE ACTION:

Immediate Response Action

Release Abatement Measure Utility-Related Abatement Measure!

Phase I

Phase II Phase III

Phase IV

Phase V

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COMPLETION STATEMENT

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"If multiple actions were completed at a disposal site, provide an attachment stating the date of the Completion Statement for each.

A AND A A G. DESCRIPTION OF RESPONSE ACTIONS

(Checking that apply) SREMOVAL OF REMEDIATION WAST

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H. FINDINGS AND CONCLUSIONS

Except where previously submitted and specific performance including, without limitation, the follow

For all glass A RAOs, information (peen reduced to background, and to the CMR 40.0860 demonstrating that or all Class A and Class B RAOS

Class C RAOs, Info or all Class C RAOs, a copy of the to be taken toward achieving a F

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sed 10/1/93



Massachusetts Department of Environmental Protection BY. Bureau of Waste Site Cleanu RESPONSE ACTION OUTCOME (RAO) STATEMENT (pursuant to 310 CMR 40,1056) 4005

I. LSP OPINION: Name of Organization

LSP Name: ____ Michael P.S. Bingham Telephone 508 - 481 - 57505

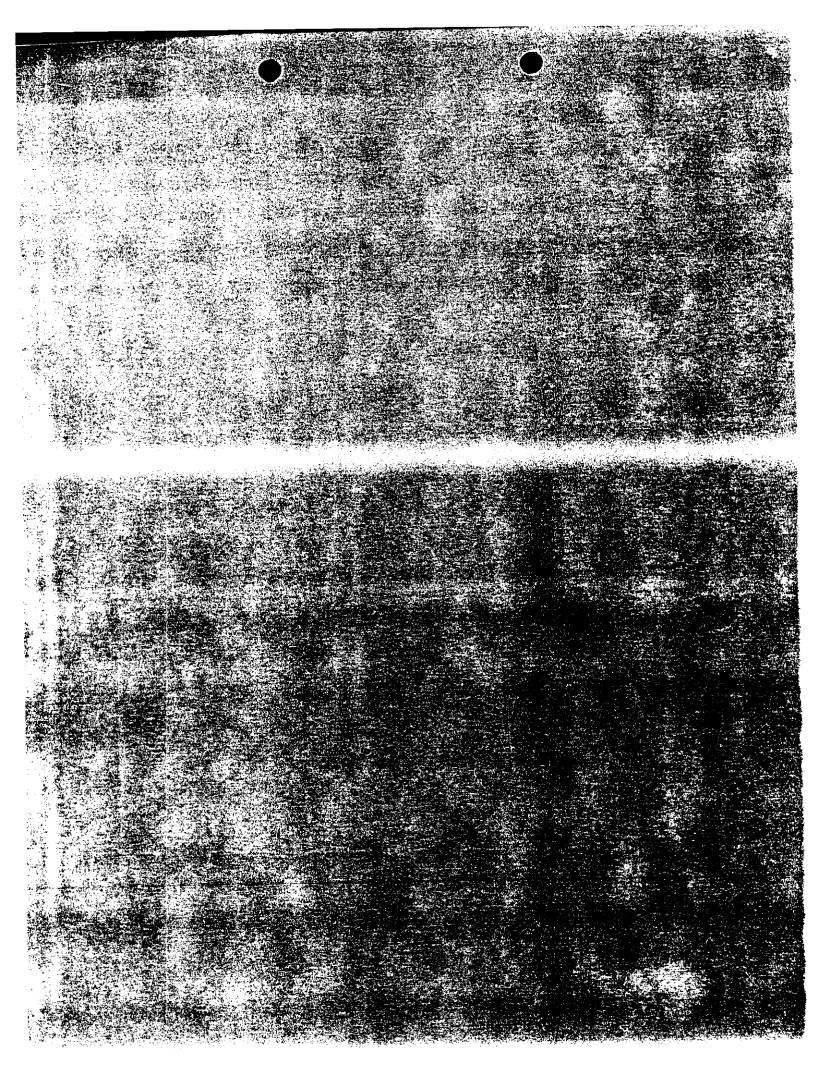
I attest that I have personally examined a accompanying this attestation provisions of M.G.C. c. 214 approvals applicable to such response activ and imprisonment if I wilfully submit informat

Signature: Date: License Nümber

 Project Manager/Sr.Hydro

U: CERTIFICATION OF PERSON SUBMITTING BAC STATEMENT Certify under penalties of law liar, shave personal parameters and an estimation and

d all documents acc he information, the material info that there are significant p mplete informatio





520 Allens Avenue P O Box 2007 Providence P - 02905 401-785 3260

July 13, 1994

Mr. Ben Renzella Nobscot Realty Associates PO Box 872 Framingham, MA 01701

Re: Site Closure Response Action Outcome Statement DEP Case No. 3-4005 Waiver Site Star Loc. No. 11-143-175 881 Edgell Road Framingham, Massachusetts

Dear Mr. Renzella:

Enclosed with this letter is a copy of the Response Action Outcome (RAO) Statement submitted to the Department of Environmental Protection for the above location. The RAO includes a Method 1 Risk Characterization and supporting documentation indicating that a condition of No Significant Risk exists at the subject site. These documents have been prepared in accordance with 310 CMR 40.0900.

A Licensed Site Professional (LSP) Opinion has been included with the RAO Statement indicating that a permanent solution has been achieved in accordance with 310 CMR 40.1000. No further operation, maintenance or monitoring are required to maintain the conditions upon which the RAO Statement and the LSP Opinion are founded in accordance with 310 CMR 40.1000.

If you have any questions, please do not hesitate to call me at (401) 785-3260.

Sincerely, STAR ENTERPRISE

Robert A. Gulick Field Environmental Specialist

Attachment

cc: EKW ENV FILE Michael Bingham



520 Allens Avenue P O Box 2007 Providence RE 02905 401 785 3260

July 12, 1994

Mr. Dennis W. Cardiff Chairman, Board of Selectmen Framingham Town Hall 150 Concord Street Framingham, MA 01701

> RE: Notification of Availability Response Action Outcome Statement DEP Case # 3-4005 Waiver Site Star Facility # 11-143-175 881 Edgell Road Framingham, Massachusetts

Dear Mr. Cardiff:

In accordance with the Massachusetts Contingency Plan (MCP) 310 CMR 40.1403 (3f) this letter is provided as Notification of Availability of a Response Action Outcome (RAO) Statement relative to the above location. The MCP states that RAO Statements submitted to the Department of Environmental Protection (DEP) shall be made available to the Chief Municipal Officer and Director of the Board of Health of the appropriate community.

If you would like to obtain a photocopy of the Response Action Outcome Statement and supporting documentation regarding the above location, please contact me at (401) 785-3260.

Sincerely, STAR ENTERPRISE

Robert A. Gulick Field Environmental Specialist

cc: EKW Joe Landyn w/o ENV FILE w/a Mr. Robert Cooper, Director of Public Health StarEnterprise

520 Allens Avenue P O Box 2007 Providence RI: 02905 401 785 3260

July 12, 1994

Mr. Robert Cooper Director of Public Health Framingham Town Hall 150 Concord Street Framingham, MA 01701

> RE: Notification of Availability Response Action Outcome Statement DEP Case # 3-4005 Waiver Site Star Facility # 11-143-175 881 Edgell Road Framingham, Massachusetts

Dear Mr. Cooper:

In accordance with the Massachusetts Contingency Plan (MCP) 310 CMR 40.1403 (3f) this letter is provided as Notification of Availability of a Response Action Outcome (RAO) Statement relative to the above location. The MCP states that RAO Statements submitted to the Department of Environmental Protection (DEP) shall be made available to the Chief Municipal Officer and Director of the Board of Health of the appropriate community.

If you would like to obtain a photocopy of the Response Action Outcome Statement and supporting documentation regarding the above location, please contact me at (401) 785-3260.

Sincerely, STAR ENTERPRISE

Robert A. Gulick Field Environmental Specialist

cc: EKW Joe Landyn w/o ENV FILE w/a Mr. Dennis Cardiff, Framingham Town Manager

Franingham 3-4005

RESPONSE ACTION OUTCOME STATEMENT AND SUPPORTING DOCUMENTATION

Former Star Enterprise Facility 881 Edgell Road Framingham, Massachusetts Star Facility #11-143-175 DEP Case # 3-4005 Waiver Site

July 8, 1994

Prepared For:

Star Enterprise, Inc. 520 Allens Avenue Providence, RI 02905

Prepared By:

Handex of New England, Inc. 398 Cedar Hill Street Marlboro, MA 01752





RESPONSE ACTION OUTCOME STATEMENT SUPPORTING DOCUMENTATION AND RISK ASSESSMENT FORMER STAR ENTERPRISE FACILITY 881 EDGELL ROAD FRAMINGHAM, MASSACHUSETTS

a. Ale

INTRODUCTION: This information is provided in support of a Class B1 Response Action Outcome (RAO) Statement. This document applies to the subject site as bounded by the lot property lines and it is the only RAO that has been prepared for this location. A Method 1 Risk Characterization, based on 310 CMR 40.0970, was performed to determine if a condition of No Significant Risk exists at the subject site. The risk evaluation was performed without any Activity and Use Limitations considerations.

SITE DESCRIPTION: The site is located at 881 Edgell Road in Framingham, Massachusetts and is a former gasoline service station. The property is currently owned by the Nobscot Realty Water Street Trust. A Massachusetts GIS Map is attached as Figure 1. The property is situated in a mixed commercial and residential area. A vacant building is located in the approximate center of the property. Underground storage tanks for gasoline, heating oil and used oil were removed in November 1991; new tanks were not installed at the location. The site features are detailed in Figure 2, a Site Information Map.

SURROUNDING PROPERTIES: The property abutting the site to the north contains an office building. West of the site, across Edgell Road, is an auto body repair shop, a Jiffy Lube facility and an Exxon gasoline station. A coffee shop and a strip mall abut the site to the south and a paved parking area for the Nobscot Shopping Center abuts the site to the east. See Figure 3, an Area Map, for detailed locations of surrounding property use.

REGULATORY STATUS: The DEP requested that a Release Categorization Form be completed in response to written notification of an apparent gasoline release at the site (Tank Removal Procedure Report, 04/23/92). Based on a review of the completed Release Categorization Form, the DEP requested the preparation and submittal of a Phase I Site Investigation. A Preliminary Assessment Report, an Interim Site Classification Form, and a Phase I Limited Site Investigation Report were submitted to the DEP by Star Enterprise on January 14, 1993. A Waiver Application was submitted by Star Enterprise to the DEP on March 4, 1993. A Waiver of DEP approvals was obtained for this location on June 28, 1993. The site was listed as a Location to be Investigated on July 15, 1993. The following documents have been submitted to the Department of Environmental Protection (the Department):

Document Title	Submittal Date
Tank Removal Procedure Report	04/23/92
Release Categorization Form	10/05/92
Environmental Site Assessment Report	10/05/92
Integral Line Removal Report	11/20/92
Preliminary Assessment Report	01/15/93
Phase I Site Investigation	01/15/93
Interim Site Classification Form	01/15/93
Waiver of Approvals Application	03/04/93
Waiver Addendum	04/16/93
Results of Recent Ground-water Sampling	07/22/93
Notice of Audit; Request for Information	04/27/94

The following document is submitted with this RAO statement:

Document Title	Submittal Date
Site Update Report	06/30/94



SENSITIVE RECEPTORS: Drinking water is supplied to the site by the Massachusetts Water Resource Authority (MWRA). The water supply source is the Quabbin Reservoir located approximately 40 miles west of the site. There are no public or private water supply wells within one-half mile of the site. Hop Brook is located 800 feet north of the site and a small unnamed pond is 1,700 feet to the southeast. There are no schools or day-care centers within 500 feet of the site.

SITE HYDROGEOLOGY: Sediments encountered during subsurface investigations were comprised predominantly of sands and gravel with traces of silt. Groundwater is encountered at 18 feet below grade and the apparent groundwater flow direction is to the southeast.

OIL OR HAZARDOUS MATERIALS (OHM): Petroleum related compounds encountered in site groundwater from 1991 to 1994 include benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tertiary butyl ether (MTBE). Historical concentrations of BTEX and MTBE are listed in Table 1. Concentrations of OHM detected in groundwater samples collected in 1994 and historical soil data will be used in the Method 1 Risk Characterization.

MONITORING WELL GAUGING: Ground-water levels in site monitoring wells were gauged to the nearest 0.01 foot using an electronic interface probe during four sampling rounds between August 1991 and June 1994. Ground-water was encountered at approximately 18 feet below grade. Liquid phase hydrocarbons were not encountered in any of the monitoring wells.

SUMMARY OF GROUNDWATER DATA: Between August 1991 and June 1994, ground-water samples were obtained during four sampling events from up to seven monitoring wells (MW-1 through MW-7). Samples were transported to a Massachusetts certified laboratory and analyzed for BTEX and MTBE using EPA Method 602. The groundwater samples collected from MW-4 in March 1994 were analyzed for volatile organic compounds (VOCs) by EPA Method 624. Only ethylbenzene, toluene and xylenes were detected in the samples from MW-4. Table 1 summarizes historical groundwater analyses for BTEX and MTBE for the sampling dates. Laboratory analytical data for the 1994 sampling events are attached.

SUMMARY OF SOIL DATA: Soil samples were obtained from borings at depths between 16 and 19 feet during monitoring well installation activities performed between June 1993 and June 1994. BTEX concentrations in the soil ranged between nondetectable concentrations and 1 ug/kg (0.001 mg/kg).

The gasoline, used oil and heating oil tanks were removed in November 1991. Soil samples from beneath each gasoline tank, the used oil tank and the heating oil tank were analyzed by EPA Method 8020. Volatile organic compounds were not detected in post excavation soil samples from the used oil and heating oil tank excavations. Four soil samples obtained from the gasoline tank excavation, approximately 12 feet below grade, indicated total BTEX concentrations between nondetectable levels and 5,890 ug/kg (5.9 mg/kg). Excavated soil was scanned with an HNu Model PI-101 photoionization device (HNu). Approximately three cubic yards of soil exhibited organic vapor concentrations above 100 ppm. The soil was taken to D'Ambra Construction Company, Inc. of Warwick, Rhode Island for asphalt batch processing.

On November 2 and 3, 1992, steel and single wall fiberglass integral piping was removed from the pump island area. During excavation activities, soil samples were scanned for organic vapors using an HNu. Approximately 2 cubic yards of soil exhibited organic vapor concentrations greater than 22 ppm. The soil was taken to D'Ambra Construction Company, Inc. of Warwick, Rhode Island for asphalt batch processing.

One soil boring (SB-1) was drilled in the former tankfield area on June 3, 1994 (Figure 2). Soil samples obtained during drilling were scanned for the presence of organic vapors with an HNu. Organic vapors were not detected in any of the soil samples. Soil samples obtained at 17 feet below grade were analyzed for BTEX and MTBE by EPA Method 602. BTEX and MTBE were not detected above the method detection limit (1 ug/kg).



Figure 4, a Historical Information Map, indicates the locations of former underground storage tanks and other pertinent features. Soil analytical data is summarized in Table RA-4 of the Method 1 Risk Characterization, attached as Appendix A.

RISK CHARACTERIZATION METHOD: A Method 1 Risk Characterization, as described in 310 CMR 40.0970, will be used to characterize the risk of harm to health, public welfare and the environment. Method 1 is applicable to this disposal site for the following reasons:

- 1) All OHM detected at the site are listed in 310 CMR 40.0974 and 40.0975 Tables 1 through 4.
- 2) Materials known to bioaccumulate have not been used or detected in soil and/or groundwater at the site and therefore, are not expected to be present.

IDENTIFICATION OF APPLICABLE GROUNDWATER CATEGORIES: Ground water categories for the site will be identified pursuant to 310 CMR 40.0932. The ground water categories for this site were determined to be GW-3 for the following reason:

1) GW-3 applies to all groundwater.

. . .

The groundwater data obtained for this location in April 1994 meets the requirements for groundwater categories GW-2 and GW-3.

IDENTIFICATION OF APPLICABLE SOIL CATEGORIES: Soil categories for the site were identified pursuant to 310 CMR 40.0933.

<u>Potential Human Receptors and Exposure Points</u>: Human receptors that will be evaluated are adults and children 15 years old and younger. Adult frequency of use is determined to be "High" due to adults working at the site full days (8 hours or more) on a continuing basis. Adult intensity of activity is determined to be "Low" because the site is almost entirely paved. The potential for direct exposure to soil and groundwater is negligible. Frequency of site use and intensity of activity for children are both determined to be "Low". Children are expected to be infrequent visitors to the site.

<u>Accessibility of the soil</u>: OHM in soil was determined to be "potentially accessible" based soil data obtained during assessment and response actions conducted between July 1991 and August 1992.

<u>Site soil category</u>: Based on the above information, the site soil category was determined to be S-3. For a more conservative risk characterization and to eliminate the need for future Activity and Use Limitations, soil category S-1/GW-3 will be used.

EXPOSURE POINTS: Adults are not expected to be exposed to the ground water upon completion of groundwater sampling and well closure. Direct contact with soil could occur during future short term trenching or excavation activities at the site.

EXPOSURE POINT CONCENTRATIONS: Exposure point concentrations in groundwater will be the concentrations of OHM detected in ground water samples collected in April 1994. Exposure point concentrations in soil will be the concentrations of OHM in soil samples collected between January 1991 and June 1994.

RISK CHARACTERIZATION: A comparison of the exposure point concentrations against the applicable groundwater and soil standards is presented in Tables RA-3 and RA-4 (Appendix A). The most recent groundwater and soil quality data indicate that OHM at the site does not exceed GW-2 standards and S-1/GW-2 soil standards.



CHARACTERIZATION OF RISK TO SAFETY: The risk of harm to safety, as described in 310 CMR 40.0900, was evaluated for the disposal site. The site does not contain the following items related to a release of OHM:

- 1) There are no rusted or corroded drums or containers, open pits or lagoons;
- 2) There is no threat of fire or explosion or the presence of explosive vapors from the release of OHM; and
- 3) There are no uncontainerized materials exhibiting the characteristics of corrosivity, reactivity, or flammability.

Based on the above information, it was determined that the site does not pose a risk to public safety.

EXTENT OF REDUCTION TO BACKGROUND

1 i e e

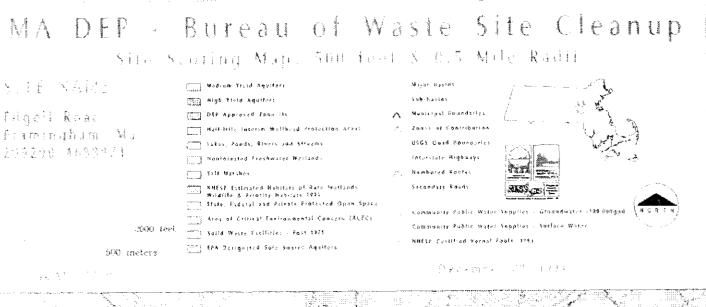
The presumed background concentrations for OHM encountered in the groundwater and soil at the site are nondetectable concentrations. Soil samples obtained during tank removal and site assessment activities have indicated OHM concentrations below the S-1/GW-2 and S-1/GW-3 standard concentrations for reported compounds. OHM concentrations in groundwater have reduced to levels below the GW-2 and GW-3 standard concentrations between August 1991 and June 1994 through natural attenuation and biodegradation. Although existing site conditions do not meet the presumed background concentrations for BTEX and MTBE (nondetectable concentrations), limited response actions and site assessment activities conducted to date indicate groundwater and soil concentrations that meet GW-2 and S-1/GW-2 requirements. These requirements are more stringent than the GW-3 and S-1/GW-3 categories that apply to the site as determined in the Method 1 Risk Characterization. In accordance with CMR 310 40.0860 (6a), "the incremental cost of conducting the remedial action alternative is substantial and disproportionate to the incremental benefit of risk reduction, environmental restoration, and monetary and non-pecuniary values."

CONCLUSIONS: The following conclusions were made based on the Method 1 Risk Characterization of site conditions at 881 Edgell Road in Framingham, Massachusetts:

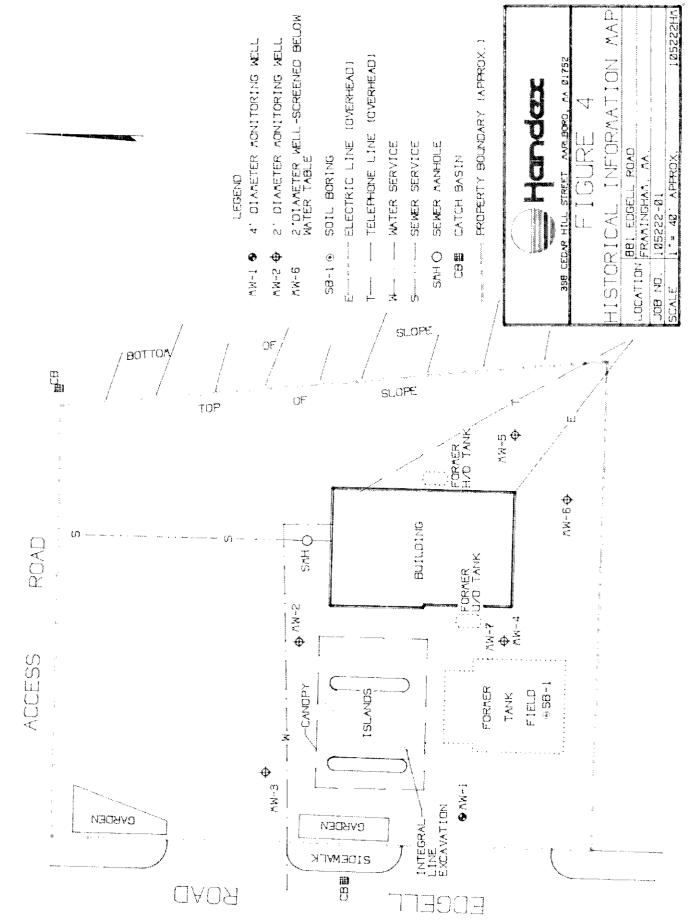
- Current concentrations of OHM in site soil and groundwater are less than Method 1 soil and groundwater standards for S-1/GW-3 and GW-3.
- 2) The site does not pose a risk to public safety, health and critical environmental areas.
- 3) A condition of No Significant Risk, as defined in 310 CMR 40.0973(7), is satisfied for the site.

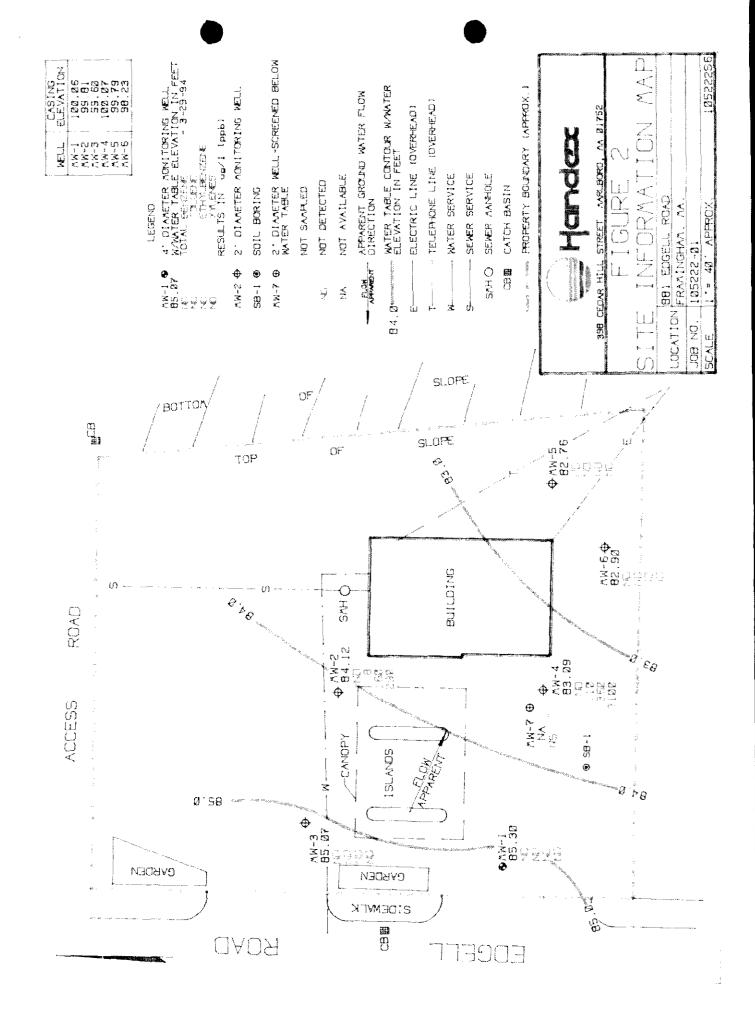


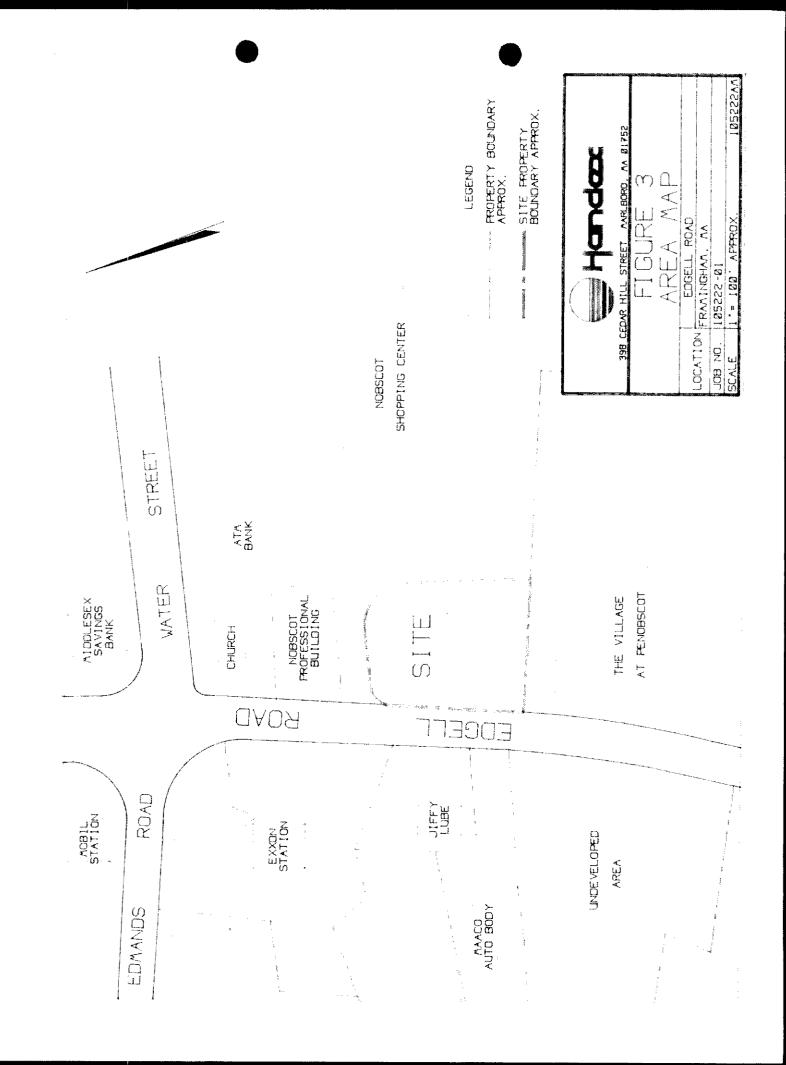
FIGURE	1
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		Sur 881	Table Summary of Ground EPA Method 6 881 Edgell Road, Fr	Table 1 Method 602/MTBE Road, Framingham, MA	iis IA		
		B	BTEX/MTBE Concentrations (ug/I)	entrations (µg/l)			
Well	Collection Date	Benzene	Ethylbenzene	Toluene	Xylenes	TOTAL BTEX	MTBE
	10/04/91	QN	QN	QX	QN	£	NA
I-W M	08/27/92	Q	ŊŊ	QN	QN	£	1.9
	06/23/93	ŊŊ	QN	Ð	Q	Ð	Ð
	03/23/94	QN	QN	QN	QX	Ø	1
MW-2	06/23/93	QN	47	Q	QX	47	Q
	03/23/94	QN	160	∞	290	458	1
MW-3	06/23/93	ŊŊ	QN	QN	QN	£	S
	03/23/94	Q	QN	ND	Q	£	4
MW-4	06/23/93	54	260	45	940	1,299	QN
	03/23/94	QN	360	110	3,100	3,570	Q
MW-5	03/23/94	QN	QN	QN	Q	Q	1
MW-6	03/23/94	Q	QN	QN	QN	£	1
MW-7	06/11/94	11	220	16	640	188	Q
NOTES:	ND indicates not detected NS indicates not sampled. NA indicates not analyzed.		above the method of detection limit.	limit.			

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APPENDIX A

METHOD 1 RISK CHARACTERIZATION

METHOD FOR CONDUCTING HEALTH RISK CHARACTERIZATION: A Method 1 Risk Characterization, as described in 310 CMR 40.0970, will be used to characterize the risk of harm to health, public welfare and the environment. Method 1 is applicable to this disposal site for the following reasons:

1) Oil and/or hazardous materials (OHM) is limited to site ground water and soil;

2) All OHM detected at the site are listed in 310 CMR 40.0974(2) and 40.0975(6)(a through c); and

3) OHM in site groundwater and soil are not known to bioaccumulate.

CURRENT AND FUTURE FORESEEABLE SITE USES: The site is currently an inactive Texaco Service Station in an area with commercial zoning. The future foreseeable uses of the site are a retail gasoline service station or a small business.

ABUTTING PROPERTIES: The following properties are abutters to the site;

- North parking lot\office building
- South shopping plaza
- East parking lot\shopping plaza
- West Edgell Road

HAZARD IDENTIFICATION

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Source and Extent of OHM Release: OHM detected in site groundwater and soil are attributed to normal gasoline service station activities. All underground storage tanks have been removed from the site. The extent of OHM release to soil and groundwater is discussed in the Response Action Outcome Statement.

Characterization of OHM: During site investigations, the following OHM were detected at elevated levels: benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tert-butyl ether (MTBE). BTEX and MTBE are associated with petroleum products stored at the site for normal retail gasoline service station operation. The physical, toxicological and environmental fate and transport characteristics of the OHM at the site are summarized in Table RA-2.

EXPOSURE ASSESSMENT

Potential Human Receptors: Pursuant to 310 CMR 40.0933(4), adults and children (<15 years old) will be evaluated as the potential human receptors. Information relating to receptors and exposure points are summarized in Table RA-1 below:

	Potential Hur	TABLE RA-1 man Receptors & Exp	posure Points	
Receptor	Frequency of Use	Intensity of Activity	Accessibility of OHM in Soil	Potential Exposure Points
ADULT				
Adult - present	Low	Low	1 - 17 feet	None
	Infrequent and shorterm	Passive activities		
Business Employee	High	Low	1 - 17 feet	None
(Future)	8 hr/day 5 days/week	Passive activities		
Construction Worker	Low	High	1 - 17 feet	Contact with soil during
(Future)	8 hr/day 2 weeks/year	short term construction work		excavation activities
Environmental Technician	Low	High	1 - 17 feet	Dermal contact with groundwater
(Future)	4 hr/day 1 day/year	groundwater sampling		with groundwater
CHILDREN		·	·	
Children	Low	Low	1 - 17 feet	None
(Present and Future)	Infrequent and shorterm	Passive activities		

POTENTIAL ROUTES OF EXPOSURE: The potential routes of exposure are listed below:

Groundwater	dermal contact inhalation (OHM vapors)	-	groundwater sampling groundwater sampling
Soil	dermal contact ingestion inhalation (particulates)	- -	excavation activities excavation activities excavation activities
	inhalation (OHM vapors)	-	excavation activities

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METHOD 1 SOIL CATEGORY: The soil categories were determined in accordance with 310 CMR 40.0933. Based on the information summarized in Table RA-1, Soil Category 3 (S-3) is applicable to the site. Soil Category 1 (S-1) will be used for this risk assessment as a screening evaluation to overestimate potential exposure to OHM in soil. Future foreseeable activities indicate adults will work at the site 5 days/week for 8 hours/day. Other future activities include potential short-term construction work and ground water sampling for environmental investigations. Children are expected to be short term infrequent visitors to the site. **METHOD 1 GROUND WATER CATEGORY:** The ground water categories for this site were determined pursuant to 310 CMR 40.0932. Information obtained for this site indicates that there are no known private or public drinking water wells within 1/2 mile of the site. The site is not within an area containing a medium to high yield aquifer or within a Zone II. Therefore, ground water beneath this site is not classified as Groundwater Category 1 (GW-1).

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The groundwater beneath the site is located greater than 15 feet below grade, and as a result, groundwater was determined not to be Groundwater Category 2 (GW-2).

All groundwater is thought to eventually discharge to surface water; therefore, Groundwater Category 3 (GW-3) is applies to this site.

EXPOSURE POINT CONCENTRATIONS: Groundwater monitoring wells (MW-1 through MW-6) at the site are the only present exposure points to groundwater. Exposure point concentrations of OHM in groundwater were determined by analyzing groundwater samples collected from each well, with each well evaluated as a distinct exposure point. Groundwater quality data is summarized in Table RA-3.

Exposure point concentrations of OHM in soil were determined using 4 soil borings and 7 gasoline, fuel oil and waste oil underground storage tank post excavation samples collected on-site. One soil sample was collected from each soil boring at depths ranging from 16 to 19 feet below grade. Each soil sample location was evaluated as a distinct exposure point. Soil quality data is summarized in Table RA-4.

RISK CHARACTERIZATION: Comparison of the exposure point concentrations to the applicable ground water and soil standards is presented in Tables RA-3 and RA-4, respectively. The most recent ground water and soil quality data indicate that OHM at the site does not exceed GW-3 Ground Water Standards and S-1/GW-3 Soil Standards.

ENVIRONMENTAL RECEPTORS: Based on available information, there are no known areas of critical environmental concern or habitats of rare wetlands wildlife within 1/2 mile of the site. The closest environmental receptor is Hop Brook which is 800 feet to the north.

CHARACTERIZATION OF RISK TO PUBLIC WELFARE: The risk of harm to public welfare was evaluated pursuant to 310 CMR 40.0994. A level of no significant risk to public welfare exists from site condition based on the following reasons:

1) No community in the vicinity of the disposal site experiences significant adverse impacts to public welfare considering the factors described in 40.0994(2), and;

2) No concentration of OHM exceeds an applicable Upper Concentration Limit (UCL), listed in 310 CMR 40.0996(4).

CHARACTERIZATION OF RISK TO SAFETY: The risk of harm to safety, as described in 310 CMR 40.0960, was evaluated for the disposal site. The former Texaco Service Station does not contain the following items related to a release of OHM:

1) There are no rusted or corroded drums or containers, open pits or lagoons;

2) there is no threat of fire or explosion, or the presence of explosive vapors from the release of OHM; and

3) there are no uncontainerized materials exhibiting the characteristics of corrosivity, reactivity, or flammability.

Based on the above information, it was determined that the site does not pose a risk to public safety.

CONCLUSIONS: The following conclusions were made based on the Method 1 Risk Characterization of environmental conditions at 881 Edgell Road in Framingham, Massachusetts:

1) Current concentrations of OHM in site ground water and soil are less than GW-3 Ground Water Standards and S-1/GW-3 Soil Standards.

2) The site does not pose a risk to public health.

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3) The site does not pose a risk to critical environmental areas.

4) A condition of No Significant Risk, pursuant to 310 CMR 40.0900, has been satisfied for the site.

		TABLE RA-2 CHARACTERISTICS OF OIL AND/OR HAZARDOUS MATERIALS	TABLE RA-2 S OF OIL AND/OR	2 R HAZARDOUS I	MATERIALS	
Chemical	CAS #	Physical	Acute Health	Chronic Health	Carcinogenic	Environmental Properties
Benzene	71-43-2	mwt = 78.11 H20 Sol = 1,791 Vap Pres = 95.19 Henry's Law = 5.43E-3	Central Nervous System (CNS) Depression	Hematopoletic toxicity	Leukemia (Group A)	Does not bioaccumulate. Readily biodegradable in soil. Highly mobile from soil to ground water.
Toluene	108-88-3	mwt = 92.13 H20 Sol = 534 Vap Pres = 28.4 Henry's Law = 5.94E-3	CNS Depression	Altered kidney and liver function	Not Classified (Group D)	Does not bioaccumulate. Moderately biodegradable in soil. Moderately mobile from soil to ground water.
Ethylbenzene	100-41-4	mwt = 106.17 H2O Sof = 152 Vap Pres = 7 Henry's Law = 6.43E-3	CNS Depression eye/skin irritant	Altered kidney and liver function	Not Classified (Group D)	Moderately mobile from soil to ground water.
Xytene (mixed isomers)	1330-20-7	mwt = 106.17 H2O Sol = 198 Vap Pres = 1 Henry's Law = 7.04E-3	CNS depression eye irritant	Altered liver function	Not Classified (Group D)	Does not bioaccumulate. Slowly biodegraded in soil. Moderately mobile from soil to ground water.
MTBE	1634-04-4	mwt = 88.2 H2O Sol = 45 Henry's Law = 5.92E-4	CNS depression	Info. not available	Info. Not Avaitable	Highly mobile from soil to groundwater.
Notes: mwt represents molecular weight.	esents molec	ular weight.				

H2O Sol represents the water solubility @ 25°C in mg/L. Vap Pres represents vapor pressure @ 25°C in mm Hg. Henry's Law expressed as atm-m3/mol.

	GROU	ND WATER QUALI	TABLE RA-3 TY VS. GROUND V	TABLE RA-3 IND WATER QUALITY VS. GROUND WATER STANDARDS		
Sample Location	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
MW-1	3/23/94	< 1.0	< 1.0	< 1.0	< 1.0	÷
MW-2	3/23/94	< 1.0	8	160	290	-
MW-3	3/23/94	< 1.0	< 1.0	< 1.0	< 1.0	4
MW-4	3/23/94	< 1.0	110	360	3,100	< 1.0
MW-5	3/23/94	< 1.0	< 1.0	< 1.0	< 1.0	1
9-WW	3/23/94	< 1.0	< 1.0	< 1.0	< 1.0	÷
MW-7	6/11/94	11	16	220	640	< 1.0
GW-1 STANDARD		5	1,000	700	10,000	200
GW-2 STANDARD		2,000	6,000	30,000	6,000	50,000
GW-3 STANDARD		7,000	50,000	4,000	50,000	50,000
Notes: 1) Concentrations listed in μg/l (ppb). 2) MTBE represents methyl tert-butyl ether. 3) Bolded concentrations indicates the app	1) Concentrations listed in μ g/l (ppb). 2) MTBE represents methyl tert-butyl ether. 3) Bolded concentrations indicates the applicable ground water standards.	b). M ether. the applicable grou	nd water standards.			

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	SOI	T L QUALITY VS.	TABLE RA-4 SOIL QUALITY VS. S-1/GW-3 SOIL STANDARDS	STANDARDS		
Sample Location	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
SOIL - T1 (12')	11/6/91	0.280	0.500	0.710	4.4	NA
SOIL - T2 (12')	11/6/91	0.0057	0.011	0.058	26	NA
SOIL - T3 (12')	11/6/91	< 0.0056	< 0.0056	< 0.0056	< 0.0056	NA
SOIL - T4 (12')	11/6/91	< 0.0054	< 0.0054	< 0.0054	< 0.0054	NA
SOIL - T5 (12')	11/6/91	< 0.0053	< 0.0053	< 0.0053	< 0.0053	NA
POST EXC. FUEL OIL (6')	11/7/91	< 0.0054	< 0.0054	< 0.0054	< 0.0054	NA
POST EXC. WASTE OIL (4')	11/7/91	< 0.0054	< 0.0054	< 0.0054	< 0.0054	NA
SOIL MW-2 (16'-18')	11/19/92	< 0.0011	< 0.0011	< 0.0011	0.0011	AN
SOIL MW-3 (17'-19')	11/19/92	< 0.0011	< 0.0011	< 0.0011	< 0.0011	AN
SOIL MW-4 (17'-19')	11/19/92	< 0.0058	< 0.0058	< 0.0058	< 0.0058	NA
SOIL SB-1 (17')	6/3/94	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
S-1/GW-3 Standard		30	500	500	500	100
Notes: 1) Concentrations listed 2) MTBE respresents m	 Concentrations listed in mg/kg (ppm). MTBE respresents methyl tert-butyl ether. 	ıpm). yl ether.				





HANDEX OF NEW ENGLAND, INC., 398 Cedar Hill Street, Marlborough, MA. 01752 • (508) 481-5750 • FAX (508) 481-5159

June 30, 1994

Mr. Robert Gulick Star Enterprise 520 Allens Avenue Providence, RI 02905

Re: Site Update Report DEP Case # 3-4005 Waiver Site Star Facility # 11-043-175 881 Edgell Road Framingham, Massachusetts

Dear Mr. Gulick:

This report summarizes the site activities conducted at the above location.

BACKGROUND

The site is located at 881 Edgell Road in Framingham, Massachusetts, in a mixed commercial and residential zoned area. Figure 1, a Locus Map, illustrates the site in relation to surrounding surface features, topography, and drainage. Figure 2 is a Site Information Map showing important site features. The Department of Environmental Protection (DEP) issued a Waiver Approvals for the site on June 28, 1993.

SOIL BORING AND MONITORING WELL INSTALLATION

On February 1, 1994, two soil borings were drilled by Environmental Structural Drilling of Sterling, Massachusetts using the hollow stem auger drilling method. The soil borings were completed as two-inch diameter, PVC ground-water monitoring wells (MW-5 and MW-6) to depths of 25.5 and 25 feet, respectively. The well screens were set to span the water table encountered during drilling. A filter pack of #1 Morie well sand was placed in the annular space around the well screen to approximately 1.5 feet above the screen/riser contact. A 1.5 foot bentonite clay seal was placed above the filter sand. Portland cement was placed in the annular space above the bentonite seal.

On April 2, 1993, one soil boring was drilled by Handex of New England, Inc. using the hollow stem auger drilling method. The boring was completed as a two-inch diameter PVC monitoring well (MW-7) to a depth of 24.5 feet. The well screen was set below the water table at a depth of 22.5 feet to 24.5 feet. A filter pack of #1 Morie well sand was placed in the annular space around the well screen to approximately 1.5 feet above the screen/riser contact. A one-foot bentonite clay seal was placed above the filter sand. Grout was used to seal the annular space above the bentonite seal to six feet below grade. Native material was placed in the remianing annular space.

The three wells were completed with eight-inch diameter metal manholes and cemented to grade. A Handex security tie and locking cap was placed on each well. Monitoring well locations are presented on Figure 2. Monitoring well installation details are included on the boring logs attached as Appendix A.

An additional soil boring was drilled on June 3, 1994 by Environmental Structural Drilling using the hollow stem auger drilling method. The boring (SB-1) was drilled to a depth of 20 feet. The location of SB-1 is presented on Figure 2 and a boring log attached as Appendix A.

Split-spoon soil samples were obtained by standard penetration tests at five foot intervals from borings MW-5 and MW-6. Split-spoon samples and/or grab samples from auger flights were obtained at depths between 10 feet and 18 feet in boring SB-1. Representative soil samples were collected in clean 8-ounce glass jars. Each sample was logged for lithology and screened for organic vapors with an HNu, using the standard DEP approved jar-headspace technique. Volatile organic vapor concentrations in soil samples obtained from MW-5, MW-6 and SB-1 are indicated on the boring logs.

Soil samples obtained at the water table (approximately 16 to 18 feet) from each boring were submitted to Accutest Laboratories of Marlboro, Massachusetts. The samples were analyzed by EPA Method 8020 for benzene, toluene, ethylbenzene, xylenes (BTEX) with methyl tertiary butyl ether (MTBE) as an additional compound. BTEX and MTBE were not encountered above the method detection limit in any of the soil samples. Copies of the laboratory reports are attached as Appendix B.

SITE MONITORING

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The depth to water in the monitoring wells was gauged on March 23, 1994, June 3, 1994 and June 1, 1994. No separate phase hydrocarbons were encountered. The ground-water elevation data obtained on March 23, 1994 is presented on Figure 2. Apparent ground-water flow was to the east. Monitoring well gauge data obtained on March 23, 1994 is summarized in Table 1; additional well gauge data is attached as Appendix C.

Groundwater samples were obtained from wells MW-1 through MW-6 on March 23, 1994; groundwater samples were obtained from MW-7 on June 11, 1994. Prior to sampling, the wells were purged of three to five casing volumes to allow for ground-water recharge to obtain representative ground-water samples. Three 40 ml samples were collected from each well with clean acrylic bailers, preserved at 4°C, and transported to Accutest Laboratories, Marlboro, Massachusetts. The samples were analyzed for BTEX by EPA Method 602 with MTBE as an additional compound. Laboratory analytical data obtained on March 23, 1994 is presented in Table 2, and on Figure 2. A photocopy of the laboratory analytical reports are attached as Appendix D.

BAY DRAIN INVESTIGATION

On January 1, 1994 and April 25, 1994 dye testing was performed on all sinks, toilets and bay drains at the site to determine drainage destination. The dye tests indicated that the bay drain and slop sink in the garage discharge to an oil/water separator in the garage. The separator inside the garage discharges to a second separator located near the northern side of the building (Figure 2). The separator outside the building is four feet in diameter and extends to eight feet below grade. The toilets and bathroom sinks did not discharge to the separator outside the building. The dye was not observed in utility manholes located on Edgell Road and on the adjacent access road.

On May 18, 1994, a review of the Town of Framingham building and public works department files was conducted to determine the discharge destination for the toilets, sinks and drains. Available records and utility maps indicated that the site is serviced by sanitary and storm sewer lines located in the access road that abuts the site to the north. A representative from the public works department indicated that the bathroom fixtures were tied in to the sanitary sewer system and the floor drains, slop sink, and both oil/water separators should be tied into the storm drainage system. The storm drainage system discharges to the Sudbury River.

Llquid from the oil/water separator and bay drains inside the building were evacuated and steam cleaned on April 7, 1994. All liquids were temporarily stored in five 55-gallon DOT drums equipped with liner. The drums were taken to General Chemical in Framingham, Massachusetts under a manifest on April 15, 1994. Liquids and sediment were evacuated from the separator outside the building on April 29, 1994 and temporarily stored in three 55-gallon lined DOT drums. The drums were taken to General Chemical on June 8, 1994 under a waste manifest. Photocopies of the manifests are attached as Appendix F.



Please contact our office if you have any questions regarding this report.

Sincerely, Handex of New England, Inc.

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Ellen R. Thibodeau Hydrogeologist

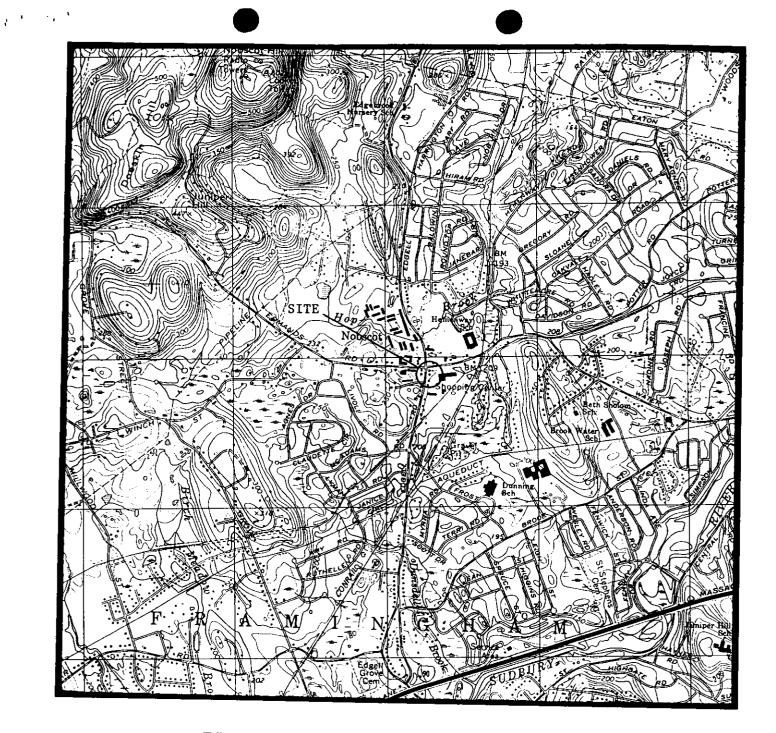
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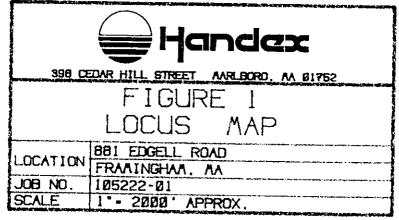
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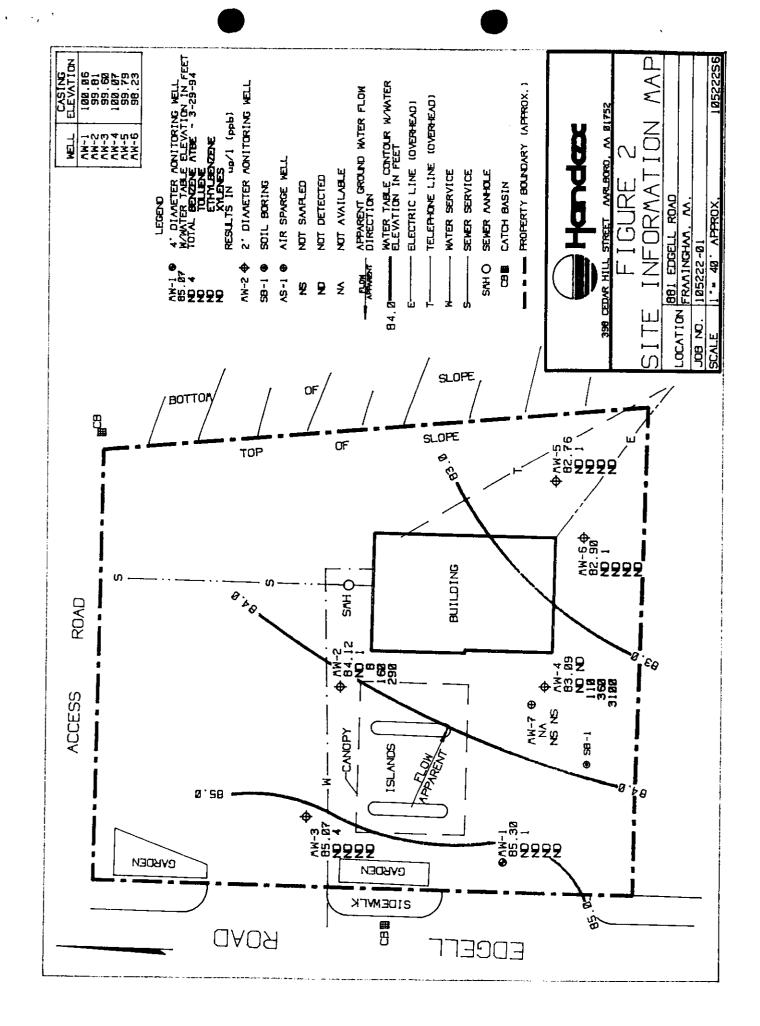
Michael P. Bingham Project Manager/Senior Hydrogeologist



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	MONITORING V	ABLE 1 WELL GAUGE DATA r Facility d, Framingham, MA		
WELL NUMBER	WATER DEPTH (FEET)	CASING ELEVATION (FEET)	WATER ELEVATION (FEET)	
MW-1 14.76 100.06 85.30				
MW-2	15.69	99.81	84.12	
MW-3	14.53	99.60	85.07	
MW-4	16.98	100.07	83.09	
MW-5	17.03	99.79	82.76	
MW-6	15.33	98.23	82.90	

			Table 2 Ground-wat thod 624M/ Star Facility Road, Framing	МТВЕ	}		
Sample Da	ate: 03/23/94		BTEX/MTB	E Concentratio	on (µg/l)		
Well	Benzene	Ethylbenzene	Toluene	Xylenes	Total BTEX	МТВЕ	
MW-1 ND ND ND ND 1.3							
MW-2 ND 160 8.0 290 458 1.4							
MW-3 ND ND ND ND 3.8							
MW-4 ND 360 110 3100 3,570 ND							
MW-5	╤╌╼╾╾┼╼╴╌╴┼╼╾╌┼╼╾╴╼╍┼╴╍╾╁╴╴┈┱╁╴╴┈┱╁						
MW-6							
Notes:	NS indicates NA indicates	-		of detection lir	nit.		

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APPENDIX A

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) 		ndex°			WE	LL LO	G: M	1W	5	
<u>⊢</u>	landex o	1 New	England		<u> </u>						
Permi	t#:N	1/A			Dril	l Date: 2/1/9	4	Use: M	onitoring		
Loca	tion: E	381 E	Owner Loc	: #: 11–143	-175						
Owne	r: Sta	r Ent	terprise					Handex Lo	c#: 1052	22	
Owne	r Addr	ess:	Providence	e, RI			BORING - Depth	n: <i>26 ft</i> .	Dian	ieter: <i>8 in.</i>	
Drillin	g Meth	od:	Hollow Ster	n Auge	er.		CASING - Lengti	n: 10 ft.	Dian	eter: 2 In.	
Samp	ling Me	thod	: Split Spo	on			SCREEN - Lengt	n: <i>15 ft.</i>	Diam	eter: 2 in.	
Statio	o Wate	r Lev	el: 17.75 ft	t. (2,	/1/94)		WELL - Depti	n: 25.5 ft.			
Depth (ft.)	Sample IO	Sample Depth	Blows/6 in.	л Х Ц	Graphic Log	Ge	Geologic Description			ell Diagram	
5	SS-I		29,28,71 ¥	ND		medium Gravel Brown fine to Gravel.	ne to coarse SAND, fin coarse SAND, fine to c coarse SAND, fine to c	oarse	لب		
10	SS-2		01,03,62 ¥	1.5			very fine coarse SAND,	little		8entonite Seal	
15-	SS-3		19,100 ¥	ND		line to coarse			- T		
20-	SS-4		25,28,25,42	ND		coarse Gravel.	coarse SAND, some fine		ත් 2" Sched. 40 PVC (0.020 slot)	#1111111111111111111111111111111111111	
25-	SS-5		80 ¥	ND					-25		
30-					Note:				-30		
NOTES:	¥ = St	atic W	ater Level (fr	om TOC)		······································				
Geolog	gist: P	atric	k Korths				Driller: Environn	nental Struc	tural Drillin	g	
										, i	

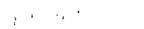
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	<u></u> ≓ Ho	רוב	dex			WE	LL LO	G: M	1W—6	5	
├ ───	Handex o		England]							
	it #: N		<u> </u>			Date: 2/1/9	4		lonitoring		
			dgell Road	- Fran	ningham	, MA			; #: 11-143 -		
├ ──	er: Sta						r		DC #: 10522	2	
		· · · · ·	Providence				BORING - Deptr			eter: 8 in.	
	,		Hollow Stel		<u>.</u>		CASING - Lengti		Diame	ter: 2 In.	
\			: Split Spo		·		SCREEN - Length	<u> </u>	Diame	ter: 2 in.	
Stat	ic Water		el: <i>19 ft.</i>	(2,	/1/94)		WELL - Depti	n: 25 ft.	· · · · · ·	<u></u>	
Depth (ft.)	Sample ID	Sample Depth	Blows/6 in.	NN NN H	Graphic Log	G	eologic Description		Well Diagram Top of casing ———— set .5 feet below grade		
				ND			coarse SAND, some fin I, trace Silt, occasional		DAC	Portland Cement	
5-				3.0					- 2" Sched. 40 PVC	Here Porti	
				NO			coarse SAND, little to	medium		1 I I 🖡 I	
10	SS-I		50 ¥	5			very coarse SAND and EL, accasional cobbles.	fine to			
15-	SS-2		20,27 ¥	5			fine to very coarse SA edium GRAVEL	ND and	Sched. 40 PVC (0.020 slot)	1111111111111111111	
20-	SS-3	M	8,5,10,14	ND					. 2, Sched. 40 P		
25-	SS-4	\square	10,13,27,40	ND		Brown very co Gravel, silt an	parse SAND, little fine t d clay.	o coarse	25		
30-					Note:				-30	<u> </u>	
NOTES	i: ¥ = St	atic k	ater Level (1	om TOC	:)						
Geol	ogist: P	atric	k Korths				Driller: Environ	mental Stru	ctural Drilling	9	

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Handex of New Permit #: N/A		_1	Drill Date: 4/2/93				Ionitoring	<u> </u>
Location: 881 E	dgell Road	- Fran	· ·				= #: 11143	3-175
Owner: Star En						Handex Lo	oc #: 1052	22
Owner Address:	Providence	, RI			BORING - Dept	h: 24.5 ft.	Dian	neter: 8 in.
Drilling Method:	Hollow Sten	n Auge	r		CASING - Lengt	h: 22 ft.	Dian	neter: <i>2 in.</i>
Sampling Method	: Split Spo	on			SCREEN - Lengt	h: 2 ft.	Dian	neter: <i>2 in.</i>
Static Water Lev	el: <i>18 ft.</i>	(4,	/2/93)	······	WELL - Dept	h: <i>24.5 ft.</i>		
Depth (ft.) Sample ID Sample Depth	Blows/6 in.	NNH	Graphic Log	G	eologic Descriptior	1	W Top of casing — set .5 feet below grade	ell Diagram
5- 10- SS-1 SS-2 SS-3 15- SS-4	11,42,42,26 29,29,24,17 19,22,26,50 50/3"	115 210 250 210		coarse GRAVE Light Brown m to coarse GR Brown medium coarse GRAVE Brown fine to GRAVEL, (Bas Brown fine to GRAVEL, (Bas	edium to coarse SAND AVEL. to coarse SAND and f EL. coarse SAND and fine sal Till). coarse SAND and med	and fine ine to to coarse	0	Bentonite Seal A A A A A A A A A

Handex of New England Permit #:	Drill Date: 08/0	03/94	Use: Soil B	orina		
Location: 881 Edgell Road		Owner Loc #:				
Owner: Star Enterprise			Handex Loc #:	105222-01		
Owner Address: Providence	ce, RI	BORING - Dept	th: 20 ft.	Diameter: 4.25 In		
Drilling Method: Hollow St	em Auger	CASING - Lengt	:h: N/A	<u> </u>		
Sampling Method: Split Sp	poon	SCREEN - Lengt	ih: N/A			
Static Water Level:		WELL - Dept	h: N/A			
Depth (ft.) Sample ID Sample Depth Blows/6 in.	HNu Graphic Log	Seologic Descriptio	n	Boring Diagram		
5- 10- 15- 15- 55-2 55-3 20- 25-	ND Brown fine to	e to coarse SAND, (-) avel. o coarse SAND, little (- avel. Cobbles present.	-5	Alive Sand		















APPENDIX B













02/15/94

TECHNICAL REPORT FOR HANDEX OF NEW ENGLAND INC.

SAMPLES TAKEN AT: TEXACO S/S, 881 EDGELL ROAD, CLIENT PROJECT ID: 105222-01 ACCUTEST JOB NUMBER: 940140N SAMPLES RECEIVED AT ACCUTEST ON: 02/08/94 NUMBER OF SAMPLES IN THIS REPORT: 2 TOTAL NUMBER OF PAGES IN REPORT: 8

REZA TAND LAB DIRECTOR

NOTE: THIS REPORT SHOULD ONLY BE REPRODUCED IN FULL



HANDEX OF NEW ENGLAND INC. 398 CEDAR HILL STREET MARLBOROUGH, MA 01752

DATE: 02/15/94 JOB No: 940140N PROJECT No: 105222-01 SAMPLE RECEIVED: 02/08/94

ATTN: J. ITALIANO

SAMPLE NO	COL: DATE	LECTED TIME	ВҮ	POINT OF COLLECTION
E400503N	02/01/94	10:45	РК	SOIL - MW-5; TEXACO S/S, 881 EDGELL ROAD, FRAMINGHAM, MA
E400504N	02/01/94	14:30	PK	SOIL - MW-6; TEXACO S/S, 881 EDGELL ROAD, FRAMINGHAM, MA

SAMPLE SUMMARY



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ANALYSIS REPORT

SAMPLE NO	COLI DATE	LECTED TIME	ВҮ	POINT OF COLLECTION					
E400503N	02/01/94	10:45	РК	SOIL - MW-5; TEXACO S/S, 881 EDGELL ROAD, FRAMINGHAM, MA					
TEST DESCRIPTI PURGEABLE AROM			R	ESULT	MDL	UNITS	DATE	INIT	
BENZENE	·		N	ID	1.1	UG/KG	02/10/94	RND	
ETHYLBENZEN	E		N	(D	1.1	UG/KG	02/10/94	RND	
TOLUENE			<u> </u>	ID	1.1	UG/KG	02/10/94	RND	
XYLENES, TO	TAL		ID	1.1	UG/KG	02/10/94	RND		
METHYL TERT	IARY BUTYL ET	HER	ID	1.1	UG/KG	02/10/94	RND		



ANALYSIS REPORT

SAMPLE NO	COL: DATE	POINT OF COLLECTION						
E400503N	02/01/94	10:45	PK			; TEXACO), FRAMINO	•	
TEST DESCRIPTI	on			RESULT	MDL	UNITS	DATE	INIT
SOLIDS, TOTAL	PERCENT			90	2.0	%	02/09/94	DAC

2.0

8

02/09/94 DAC



SAMPLE NO	COLI DATE	LECTED TIME	ВҮ	POINT OF COLLECTION					
E400504N	02/01/94	14:30	PK	ท		; TEXACO , FRAMING	S/S, 881 HAM, MA		
TEST DESCRIPTI	ON		F	ESULT	MDL	UNITS	DATE	INIT	
PURGEABLE AROM	ATICS, MTBE								
BENZENE			1		1.0	UG/KG	_02/08/94	RND	
ETHYLBENZEN	IE		l	ND	1.0	_UG/KG	02/08/94	RND	
			1	ND	1.0	UG/KG	02/08/94	RND	
XYLENES, TO	TAL		1	ND	1.0	UG/KG	02/08/94	RND	
METHYL TERI	LARY BUTYL ET	HER	ND	1.0	UG/KG	02/08/94	RND		



SAMPLE NO	COLI DATE	LECTED TIME	ВҮ		POINT	r OF COLL	ECTION	
E400504N	02/01/94	14:30	РК			TEXACO FRAMING		
TEST DESCRIPTI	ON		1	RESULT	MDL	UNITS	DATE	INIT
SOLIDS, TOTAL	PERCENT			95	2.0	8	02/09/94	DAC

.

LABORATORY CHRONICLE

DATE SAMPLES RECEIVED.....02/08/94

ACCUTEST Sanple #	SAMPLE Date	ANALYTE	#ETK00	INITIAL PREP.	FINAL PREP.	PREP. INITIALS		REPORTED Analysis	ANALYST INITIALS
E400503N	02/01/94	SOLIDS, TOTAL PERCENT	EPA 160.3M				02/09/94	02/09/94	DAC
E400503N	02/01/94	PURGEABLE AROMATICS.MTBE	SU846 8240M				02/08/94	02/10/94	RNO
E400504N	02/01/94	SOLIDS, TOTAL PERCENT	EPA 160.3N				02/09/94	02/09/94	DAC
E400504N	02/01/94	PURGEABLE AROMATICS, MTBE	SU846 8240H				02/08/94	02/08/54	RND

DATE 2 1 15 194 MANAGER ____

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102 22 201	1001 No. 940140N
10	Projec

CHAIN OF CUSTODY RECORD



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398 CEDAR HILL STREET MARLBORO, MA 01752

	gre	E1	481-575C	the
Enterature	Alleno A	dense	State/Zip	Telephone
Azr.	C S S S S S S S S S S S S S S S S S S S	Address Condition	CIA 9 17	Arthonion

REQUESTED TURN AROUND:

----- D 1 WEEK D 2 WEEKS D 3 WEEKS D NORMAL

APPROVED: D OTHER:

AMALYSIS REQUEST	110 M 1369	1								SAMPLE LOCATION	3B, M2
POINT OF COLLECTION		<u> </u>								3. RECEIVED BY:	4. RECEIVED BY:
	4 M. 4	PIR-C.								TIME	TIME
FIELD ID	5/5 0 W	2.7.5 1.1.5 1.5					į				DATE/TIME
FIEL	Former Texaco 215 881 Edgell Rd. Fromingham, MA	Former Texac 881 Edgell R Framinchum 1	0							3. RELINQUISHED BY	4. RELINOUISHED BY:
PRES	4°C	• 4	4•C	4•C	4•C	V.	4.C	4•O	4•C	39 2	4. RE
CONT	7	x								LARCEIVED BY: 1 L	J.C.
MATRIX	Seil	Soi								RECEIVED	PECEWED
SAMPLED BY	Batnick Korths	Patrick Korths								/טרו והשיק	
TIME SAMPLED	Shiol	36 . 6								DATE/TIME	DATE/TIME
DATE SAMPLED	46-1-2	2-1-94								41/22	
SAMPLE	2 MAY	ge MAW	Elio.+							1. RELINQUISED BY:	Z PELINOV

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SAMPLE NO	COLI DATE	LECTED TIME	ву	POINT OF COLLECTION				
E403116N	06/03/94	13:30	DD		AR ENT., 8 AM, MA	81		
TEST DESCRIPTI		<u></u>	1	RESULT	MDL	UNITS	DATE	INIT
PURGEABLE ARON	ATICS, MTBE						00/00/04	
BENZENE	<u></u>		1	ND	1.0	UG/KG	06/08/94	<u> </u>
ETHYLBENZEN	ETHYLBENZENE					UG/KG	06/08/94	TEC
TOLUENE				ND	1.0	UG/KG	06/08/94	TEC
XYLENES, TO	OTAL			ND	1.0	UG/KG	06/08/94	TEC
METHYL TER	TIARY BUTYL ET	THER	ND	1.0	UG/KG	06/08/94	TEC	

ND = NOT DETECTED UG/KG = PPB MG/KG = PPM MDL = METHOD DETECTION LIMIT ALL RESULTS REPORTED ON A DRY WEIGHT BASIS CERTIFICATIONS: MA (MA136) CT (PH-0109) NH (250293) NJ (59928) RI (A-71) ME (MA136)



SAMPLE No	COL DATE	LECTED TIME	вү	POINT OF COLLECTION				
E403116N	06/03/94	13:30	DD	SOIL - SB-1, 17'; STAR ENT. EDGELL RD., FRAMINGHAM, MA				81
TEST DESCRIPTI	ION		1	RESULT	MDL	UNITS	DATE	INIT
SOLIDS, TOTAL	PERCENT			95	2.0	8	06/09/94	RJH

UG/KG = PPB MG/KG = PPH MDL = METHOD DETECTION LIMIT ALL RESULTS REPORTED ON A DRY WEIGHT BASIS CERTIFICATIONS: MA (MA136) CT (PH-0109) NH (250293) NJ (59928) RI (A-71) ME (MA136)







LABORATORY CHRONICLE

ACCUTEST JOB #.....940834N DATE SAMPLES RECEIVED......06/08/94

INITIAL FINAL PREP. INITIAL REPORTED ANALYST ACCUTEST SAMPLE INITIALS ANALYSIS ANALYSIS INITIALS PREP. PREP. SAMPLE BATE ANALYTE METHOD 06/09/94 06/09/94 RJH E403116N 06/03/94 SOLIDS, TOTAL PERCENT EPA 160.3M 06/08/94 06/08/94 TEC E403116N 06/03/94 PURGEABLE AROMATICS, HTBE SH846 8240H

DATE 6 13 94

MANAGER

اطالاهم	398 CEDAR HILL STREET MARLBORO, MA 01752	REPORT TO: A Holmes	APPROVED:	ANALYSIS REQUEST	BTEXM								1 CY
			ND: KIN OTHER	POINT OF COLLECTION	+ 50-2"17'								2. RELINDAISED BY: DATE/TIME 2. CLUSH P. 6/3/54 3. RECEIVED BY: DATE/TIME
CHAIN OF CUSTODY RECORD			REQUESTED TURN AROUND: (10 10 10 10 10 10 10 10 10 10 10 10 10 1	PRES. FIELD ID	4°C 881 Edgell Rd Franceshann	4°C	4°C	4°C	4°C	4°C	* C	4°C	DATE/TIME S/8/54 10 30 2.9EU DATE/TIME 3. REC
OF CUSTO			- - D 24 HR	MATRIX NO. PF CONT.	<i>ъ</i> 1000	4	۲ 	4		4	4	4	1. RECEIVED BY:) / 2. RELINQUISED BY: 3. RELINQUISED BY:
CHAIN	yarene	- Aux	AL RI 03905 Telephone #	TIME SAMPLED SAMPLED BY	/330 DD								DATE/TIME
100 No. タイのあるイム 105 ZZ2 - 01	Erze	allen	state Zip State Zip Gulled F	DATE SAMPLED SA	12/3/94								BY:
Job No. Project No.	Sta.	520	City City	NO B	21/20/17								1. RELINOUISED BY: 2. RECEIVED BY:

REMARKS:

APPENDIX C

OBSERVATION WELL GAUGE REPORTS

CLIENT: STAR ENT LOCATION: FRAMINGHAM-EDGELL ROAD STATE: MA

CLIENT CODE: HANDEX CODE: 105222

Print date: 7/06/94 Page 1

MONITORING DATE	WELL TYPE-#	с 	PRODUCT DEPTH (feet)	WATER DEPTH (feet)	PRODUCT THICK. (feet)	PRODUCT ELEV. (feet)	GW ELEV. (feet)	CORR GW ELEV. (feet)
23-Mar-94	MW-1			14.76			85.30	85.30
23-Mar-94	MW-2			15.69			84.12	84.12
23-Mar-94	MW-3			14.53			85.07	85.07
23-Mar-94	MW-4			16.98			83.09	83.09
23-Mar-94	MW-5			17.03			82.76	82.76
23-Mar-94	MW-6			15.33			82.90	82.90
3-Jun-94	MW-1			15.99			84.07	84.07
3-Jun-94	MW-2			17.00			82.81	82.81
3-Jun-94	MW-3			15.67			83.93	83.93
3-Jun-94	MW-4			17.95			82.12	82.12
3-Jun-94	MM-6			17.95			80.28	80.28
11-Jun-94	MW-7			18.31				

"C"omments: [P = Pumping; N = Non-Pumping; B/A = Before/After Adjustment]
[I = Well Inaccessible; # = nth Monitoring Event of Day]
[D = Dry Well; F = Film or Trace of Product] 105222

APPENDIX D



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04/01/94

TECHNICAL REPORT FOR HANDEX OF NEW ENGLAND INC.

SAMPLES TAKEN AT: STAR ENT., 881 EDGELL RD., CLIENT PROJECT ID: 105222-01 ACCUTEST JOB NUMBER: 940367N SAMPLES RECEIVED AT ACCUTEST ON: 03/24/94 NUMBER OF SAMPLES IN THIS REPORT: 6 TOTAL NUMBER OF PAGES IN REPORT: 12

REZA TAND LAB DIRECTOR

NOTE: THIS REPORT SHOULD ONLY BE REPRODUCED IN FULL.



HANDEX OF NEW ENGLAND INC. 398 CEDAR HILL STREET MARLBOROUGH, MA 01752 DATE: 04/01/94 JOB No: 940367N PROJECT No: 105222-01 SAMPLE RECEIVED: 03/24/94

ATTN: J. ITALIANO

SAMPLE	SUMMARY
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SAMPLE NO	COLI DATE	LECTED	ву	POINT OF COLLECTION
	DAIL		DI	
E401316N	03/23/94	08:55	SH	WATER - MW-1; STAR ENT., 881 EDGELL RD., FRAMINGHAM, MA
E401317N	03/23/94	09:00	SH	WATER - MW-2; STAR ENT., 881 EDGELL RD., FRAMINGHAM, MA
E401318N	03/23/94	09:05	SH	WATER - MW-3; STAR ENT., 881 EDGELL RD., FRAMINGHAM, MA
E401319N	03/23/94	09:15	SH	WATER - MW-5; STAR ENT., 881 EDGELL RD., FRAMINGHAM, MA
E401320N	03/23/94	09:10	SH	WATER - MW-6; STAR ENT., 881 EDGELL RD., FRAMINGHAM, MA
E401321N	03/23/94	09:20	SH	WATER - MW-4; STAR ENT., 881 EDGELL RD., FRAMINGHAM, MA





SAMPLE NO	COLI DATE	LECTED TIME	ВҮ		POIN	T OF COLI	LECTION	
E401316N	03/23/94	08:55	SH WATER - MW-1; STAR ENT., 881 EDGELL RD., FRAMINGHAM, MA					
TEST DESCRIPTION					MDL	UNITS	DATE	INIT
PURGEABLE AROM	ATICS, MTBE							
BENZENE			1	ND	1.0	UG/L	03/24/94	RND
ETHYLBENZEN	IE		1	ND	1.0	UG/L	03/24/94	RND
TOLUENE			!	ND	1.0	UG/L	03/24/94	RND
XYLENES, TO	TAL	1			1.0	UG/L	03/24/94	RND
METHYL TERTIARY BUTYL ETHER					1.0	UG/L	03/24/94	RND



SAMPLE NO	COLI DATE	LECTED TIME	ВҮ		POINT OF COLLECTION				
E401317N	03/23/94	09:00	SH WATER - MW-2; STAR ENT., 881 EDGELL RD., FRAMINGHAM, MA						
TEST DESCRIPTI	I	ESULT	MDL	UNITS	DATE	INIT			
PURGEABLE AROM	IATICS, MTBE						02/24/04	DND	
BENZENE	····			ND	1.0	UG/L	03/24/94	_KND	
ETHYLBENZEN	1E			160	1.0	UG/L	03/24/94	RND	
TOLUENE				8.0	1.0	UG/L	03/24/94	RND	
XYLENES, TO	TAL			290	1.0	UG/L	03/24/94	RND	
METHYL TERI	TIARY BUTYL ET	HER		1.4	1.0	UG/L	03/24/94	RND	



SAMPLE NO	COLI DATE	LECTED TIME	вү	POINT OF COLLECTION					
E401318N	03/23/94	09:05	SH	SH WATER - MW-3; STAR ENT., EDGELL RD., FRAMINGHAM, M					
TEST DESCRIPTION				RESULT	MDL	UNITS	DATE	INIT	
PURGEABLE AROM	ATICS, MTBE								
BENZENE				ND	1.0	UG/L	03/25/94	RND	
ETHYLBENZEN	IE			ND	1.0	UG/L	03/25/94	RND	
TOLUENE				ND	1.0	<u>UG/L</u>	03/25/94	RND	
XYLENES, TO	ENES, TOTAL			ND	1.0	UG/L	03/25/94	RND	
METHYL TERTIARY BUTYL ETHER				3.8	1.0	UG/L	03/25/94	RND	



SAMPLE No	COLI DATE	LECTED TIME	BY		POINT OF COLLECTION					
E401319N	03/23/94	09:15	SH WATER - MW-5; STAR ENT., 88 EDGELL RD., FRAMINGHAM, MA							
TEST DESCRIPTI	on		F	RESULT	MDL	UNITS	DATE	INIT		
PURGEABLE AROM	ATICS, MTBE					/=				
BENZENE			2	1D	1.0	<u>UG/L</u>	03/24/94	RND		
ETHYLBENZEN	IE		1	ND	1.0	UG/L	03/24/94	RND		
TOLUENE			1	ND	1.0	UG/L	03/24/94	RND		
XYLENES, TO	DTAL			ND	1.0	UG/L	03/24/94	RND_		
METHYL TERTIARY BUTYL ETHER					1.0	UG/L	03/24/94	RND		



SAMPLE NO	COLI DATE	ECTED TIME	BY	POINT OF COLLECTION						
E401320N	03/23/94	09:10	SH	ENT., 881 HAM, MA						
TEST DESCRIPTI	ON	<u></u>]	RESULT	MDL	UNITS	DATE	INIT		
PURGEABLE AROM	LATICS, MTBE									
BENZENE				ND	1.0	UG/L	03/24/94	RND		
ETHYLBENZEN	1E			ND	1.0	UG/L	03/24/94	RND		
TOLUENE				ND	1.0	UG/L	03/24/94	RND		
XYLENES, TO	OTAL			ND	1.0	UG/L	03/24/94	RND_		
	FIARY BUTYL ET	HER		1.4	1.0	UG/L	03/24/94	RND		



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	ANADISIS REPORT FO	(VOIMITHE ONON	1,400 D1 00/1	10
			DATA FILES	ANALYSIS DATE
CLIENT LAB SAMPLE # MATRIX METHOD	HNE E401321N WATER EPA 624	Initial : Dilution #1 : Dilution #2 :	>A2244	03/29/94
COMPOUND		RESULT (ug/L)	MDL (ug/L)Q
<pre>1) ACROLEIN 2) ACRYLONITRII 3) BENZENE 4) BROMOFORM 5) BROMODICHLON 6) BROMOMETHANN 7) CARBON TETRX 8) CHLOROBENZEN 9) CHLOROBENZEN 9) CHLOROFORM 10) 2-CHLOROETHAN 10) 2-CHLOROFORM 11) CHLOROFORM 12) CHLOROFORM 13) Cis-1,3-DICHLORO 14) DIBROMOCHLON 13) Cis-1,3-DICHLORO 14) DIBROMOCHLON 15) 1,2-DICHLORO 16) 1,3-DICHLORO 16) 1,3-DICHLORO 16) 1,2-DICHLORO 16) 1,2-DICHLORO 19) 1,2-DICHLORO 20) 1,1-DICHLORO 20) 1,1-DICHLORO 20) 1,2-DICHLORO 20) 1,1-DICHLORO 21) trans-1,2-DI 23) 1,2-DICHLORO 24) ETHYLBENZENN 25) METHYLENE CH 26) 1,1-TRICHLORO 26) 1,1,2-TRICHLORO 29) 1,1,1-TRICHN 30) 1,1,2-TRICHNORO 13) TRICHLOROFIU 33) VINYL CHLOR 34) XYLENES, TO</pre>	WATER EPA 624 CE COMETHANE ACHLORIDE NE CL VINYL ETHER NE HLOROPROPENE COMETHANE DBENZENE DBENZENE DBENZENE DBENZENE DBENZENE DBENZENE DETHANE DETHANE DETHANE DETHANE DETHYLENE ICHLOROETHYLENE ICHLOROETHANE SACHLOROETHANE ETHYLENE LOROETHANE DOROETHANE JOROMETHANE IDE TAL	ND ND ND ND ND ND ND ND ND ND ND ND ND N	10000000000000000000000000000000000000	

ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

ND = NOT DETECTED MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1 (2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)

J =INDICATES AN ESTIMATED VALUE BELOW MDL B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE



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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

	-	DATA FILES	ANALYSIS DATE
CLIENT : HNE LAB SAMPLE #: E401321N MATRIX : WATER METHOD : EPA 624	Initial : Dilution #1 : Dilution #2 :	>A2244	03/29/94
COMPOUND	RESULT (ug/L)	MDL (ug/L)Q
1) METHYL TERT BUTYL ETHER	ND	50	

ND = NOT DETECTED MDL= METHOD DETECTION LIMIT (1) - RESULTS REPORTED FROM DILUTION #1 (2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)

J =INDICATES AN ESTIMATED VALUE BELOW MDL B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

VOLATILE SURROGATE RECOVERY SUMMARY

LAB NAME : ACCUTEST LABORATORIES

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BATCH ID : VA0703 BATCH DATE : 03/29/94

LAB .	I DATA	IMATI	<u>S1</u>	I S2	1 53	
I SAMPLE NO	I FILE		(TOL)#	I(BFB)#		
}================			======		=====	===!===
01IMETHODBLK	1 ^A2243	I W 1	101	1 92	91	1011
021E401321N	1 ^A2244	Ι ω Ι	9 8	1 99	1 87	1011
031E401311N	1 ^A2245	1 6 1	90	1 93	101	t 0 1 t
041E401341N	1 ^82246	I W I	95	1 95	1 94	101 1
051E401311NMS	1 ^A2247	I W I	109	1 93	1 93	I 0 1 I
061E401311NMSD	I ^A2248	I W I	107	I 103	1 95	
071E401342N	L ^A2249	I W I	97	1 93	190	
081E40 13 43N	1 ^A2250	1 W 1	100	199	1 81	
091E401345N	I ^A2251	1 6 1	100	96	91	101 1
101E401359N	L ^A2252	1 60 1	- 96	1 97	101	1 O I 1
111E401360N	I ^A2253		100	97	95	
121E401361N	1 ^A2254	I W I	94	94 1	1 95	
131E401362N	L ^A2255	1 13 1	98	96 1	198	101 1
141E401363N	F ^A2256	1 60 1	99	1 87 1	193	101 1
151E401364N	I ^A2257	W	106	1 95 1	I 90	
161	!	II		۱ <u> </u>	l	ll
171	۱ <u></u>	_ll	· · · · · · · · · · · · · · · · · · ·	ا <u></u> ا	l	۱ <u></u> ۱۱
181	!	·		۱۱		II
191	!	_ <u> </u> t		ا ا	. <u> </u>	ll
201	l	· ! ! _		ا ا		۱ <u></u> ۱

	WATER SOIL	
QC	LIMITS QC LIMIT	ſS
S1 (TOL) = TOLUENE-D8 (8)	8 -110) (81 -11	12)
S2 (BFB) = 4-BROMOFLUOROBENZENE (8)	6 -115) (74 -12	21)
S3 (DCE) = $1,2-DICHLOROETHANE-D4$ (7	6 -114) (70 -12	21)

MATRIX = Soil(S), Water(W)

Column to be used to flag recovery values
* Values outside of contract required QC limits

QUALIFIERS (Q)

a - SURROGATE RECOVERY(S) OUT DUE TO MATRIX INTERFERENCE VERIFIED BY REANALYSIS

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Page 1 of 1

- 6 SURROGATE DILUTED OUT
- c SAMPLE RE-ANALYZED

COMMENTS :

LABORATORY CHRONICLE

DATE SAMPLES RECEIVED......03/24/94

ACCUTEST SAMPLE #	SAHPLE Date	ANALYTE	METHOD	INITIAL PREP.	FINAL PREP.	PREP. INITIALS	INITIAL ANALYSIS	REPORTED ANALYSIS	ANALYST Initial'
*********					•				
E401316N	03/23/34	PURGEABLE AROMATICS, MTBE	EPA G24M				03/24/94	03/24/94	R N D
<u>E</u> 401317N	03/23/94	FURGEABLE AROMATICS, MTBE	EPA 624M				03/24/94	03/24/94	R N D
E401318N	03/23/94	PURGEABLE ARONATICS, MTBE	EPA 624H				03/24/94	03/25/94	RHD
E401319K	03/23/94	PURCEABLE ARONATICS, MTGE	EPA 624M				03/24/94	03/24/94	R # 0
C401320H	03/23/94	PURGEABLE APOMATICS, MTBE	EPA 6248				03/24/94	03/24/94	RND
E401321N	03/23/94	VOLATILE ORGANICS	EPA 624				03/29/94	03/29/94	840
E401321N	03/23/94	METHYL TERTIARY BUTYL ETHER	EPA 624				03/29/94	03/23/94	RNO

MANAGER ______ DATE _____ 4 / 1 94

Handess	398 CEDAR HILL STREET MARLBORO, MA 01752	REPORT TO: Ann Holnace	APPROVED:	ANALYSIS REQUEST	BTEXM					VICZUA MTBEAN			8:30 SAMPLE LOCATION
	•		: K d other	POINT OF COLLECTION	Hw-1	MW-2-	HW-3	r11-5	Mui-lo	HW-4			REUNOUGED BY: / DATE/TIME // //////////////////////////////////
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REMARKS: WIC# CDTI



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06/16/94

TECHNICAL REPORT FOR HANDEX OF NEW ENGLAND INC.

SAMPLES TAKEN AT: STAR ENT., 881 EDGELL RD., CLIENT PROJECT ID: 105222-01 ACCUTEST JOB NUMBER: 940869N SAMPLES RECEIVED AT ACCUTEST ON: 06/13/94 NUMBER OF SAMPLES IN THIS REPORT: 1 TOTAL NUMBER OF PAGES IN REPORT: 5

REZA TAND LAB DIRECTOR

NOTE: THIS REPORT SHOULD ONLY BE REPRODUCED IN FULL



HANDEX OF NEW ENGLAND INC. 398 CEDAR HILL STREET MARLBOROUGH, MA 01752 DATE: 06/16/94 JOB No: 940869N PROJECT No: 105222-01 SAMPLE RECEIVED: 06/13/94

ATTN: J. ITALIANO

SAMPLE SUMMARY

SAMPLE No	COLI DATE	LECTED TIME	вү	POINT OF COLLECTION
E403241N	06/11/94	12:20	JG	WATER - MW-7; STAR ENT., 881 EDGELL RD., FRAMINGHAM, MA

REZA TAND LAB DIRECTOR



SAMPLE NO	COLI DATE	LECTED TIME	BY		POIN	T OF COLI	LECTION		
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<u> </u>	<u></u> .			220	5.0	UG/L	06/14/94		
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MDL ELEVATED DUE TO DILUTION FACTOR

ND = NOT DETECTED UG/L = PPB MG/L = PPM MDL = METHOD DETECTION LIMIT CERTIFICATIONS: MA (MA136) CT (PH-0109) NH (250293) NJ (59928) RI (A-71) MB (MA136)

LABORATORY CHRONICLE

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APPENDIX E

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

DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF HAZARDOUS WASTE One Winter Street Boston, Massachusetts 02108

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

	UNIFORM HAZARDOUS	Generator US EPA ID No.		Manifest	2. Page 1	Information	in the shade	id areas
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	9. Designated Facility Name and Site Address	10.	US EPA ID Num	neer		ortece Phone 1	10111-1112-11 10111-1110-1	
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	ment; OR, if I am a small quantity generator, I have made a g	good faith effort to minimize m	waste generation	and select the best	waste manage	ment method that	it is available to	me and that t
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GENERATOR MAILS TO DESTINATION STATE

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MONWEALTH OF MASSACHUSETTS C DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF HAZARDOUS WASTE **One Winter Street** Boston, Massachusetts 02108

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EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete



COMMONWEALTH OF MASSACHUSETTS IENT OF ENVIRONMENTAL PROTECT DEPA ON. DIVISION OF HAZARDOUS WASTE **One Winter Street** Boston, Massachusetts 02108

lease print or type.	(Form designed for use	on elite (12-pitch) typewriter.)

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Commonwealth of Massachusetts Executive Office of Environmental Affairs

Depairtment of Environmental Protection Metro Boston/Northeast Regional Office

William F. Weld Governor Trudy S. Coxe Secretary, EOEA Thomas B. Powers Acting Commissioner

JUN07 1994

Mr. Robert Gulick Star Enterprise 520 Allens Avenue P.O. Box 2007 Providence, RI 02905

RE: FRAMINGHAM - Texaco Service Station 881 Edgell Road Release Tracking #3-4005

NOTICE OF AUDIT FINDINGS

Dear Mr. Gulick:

On February 28, 1994, the Massachusetts Department of Environmental Protection (the Department) issued a Notice of Audit informing you that the Department was conducting an audit of certain activities related to the above-referenced disposal site pursuant to 310 CMR 40.1100. That audit is now complete. The purpose of this notice is to explain the results of the audit.

The scope of the audit was limited to a review of the following:

- The specific actions required by the Department as conditions of Waiver approval, which included:
 - 1) purging of the oil/water separator; and
 - 2) proper disposal of the oil/hazardous material containers within thirty days of the acceptance of the approved Waiver disposition form.

Notice of Audit Findings Page 2

The audit consisted of the following activities:

- A review of the documents in Department files;
- Issuance of a Notice of Audit/Request for Information dated February 28, 1994;
- A review of your March 29 and April 27, 1994 responses to the Department's February 28, 1994 Request for Information.

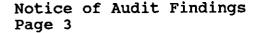
AUDIT FINDINGS

Based upon a review of your March 29 and April 27, 1994 submittals, it is the Department's understanding that the required conditions of approval were not carried out until ten months after the acceptance of the Waiver disposition. This constitutes a **violation** of 310 CMR 40.170 and CMR 40.537 (8) and (14). Although these actions constitute **violations**, since a response has been received by the Department, no additional action is required in this regard at this time.

These findings apply only to those response actions that were reviewed in the audit.

This audit does not preclude future audits of past, current, or future response actions or activities at the site or inspections to confirm compliance with applicable requirements of other laws or regulations enforced by the Department.

These findings do not in any way constitute a release from liability under M.G.L. c. 21E, the MCP, or any other law, regulation, or requirement. No portion of this Notice shall be construed to relieve any person from an obligation for Response Action Costs or damages related to a site or disposal site for which that person is liable under M.G.L. c. 21E or from any obligation for any administrative, civil or criminal penalty, fine, settlement, or other damages. No portion of this Notice shall be construed to limit the Department's authority to take or arrange, or to require any Responsible Party or Potentially Responsible Party to perform, any response action authorized by M.G.L. c. 21E which the Department deems necessary to protect health, safety, public welfare or the environment.



If you have any questions regarding this notice or any requirements contained in it, please contact Nancy Fitzpatrick or Jack Duggan at 617-935-2160. Please reference the Release Tracking Number identified in the subject heading in any future correspondence regarding the site.

Sincerely,

Rancy 9 Sitep Hick

Nancy A. Fitzpatrick Environmental Analyst

Patricia M. Donahue Chief, Compliance/Risk Reduction Bureau of Waste Site Cleanup

cc: DEP/BWSC/Woburn, Data Entry/Files DEP/BWSC/Boston, c/o Larissa Drennan DEP/Boston, Steve Winslow Framingham Board of Health Framingham Town Hall, c/o Board of Selectmen



April 27, 1994

520 Allens Avenue P O Box 2007 Providence R1 02905 401 785 3260

Ms. Nancy Fitzpatrick Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup-Audits Branch 10 Commerce Way Woburn, MA 01801

Re: Notice of Audit; Request for Information Star Enterprise Facility Star Loc. No. 11-143-175 881 Edgell Road, Framingham, MA RTN 3-4005

Dear Ms. Fitzpatrick:

An initial response to a Notice of Audit and Request for Information from the Department of Environmental Protection (DEP) pertaining to the above location was submitted to the DEP on March 31, 1994. The attached letter prepared by Handex of New England, Inc. on behalf of Star Enterprise indicates that appropriate response actions were conducted for the above location.

Star Enterprise is currently proceeding with the conditions of the waiver approval. If you have any questions please do not hesitate to call me at (401) 785-3260.

Sincerely, STAR ENTERPRISE

Mr. Robert A. Gulick Field Environmental Specialist

Attachments

cc:

EKW ENV FILE Joe Italiano

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HANDEX OF NEW ENGLAND, INC., 398 Cedar Hill Street, Marlborough, MA. 01752 • (508) 481-5750 • FAX (508) 481-5159

April 27, 1994

Mr. Robert Gulick Star Enterprise 520 Allen Avenue Providence, RI 02905

Star Enterprise Facility Re: Star Loc. #11-143-175 881 Edgell Road Framingham, Massachusetts RTN # 3-4035

Dear Mr. Gulick:

This letter presents information regarding compliance with the Waiver of DEP Approvals obtained for the above location and additional site assessment activities.

As part of the Waiver Approval, a response to conditions 1 and 2 were requested. Condition 1 indicated the "purging of the oil/water separator" and condition 2 requested "proper disposal of the oil/hazardous materials and containers within 30 days of the acceptance of the approved Waiver Disposition Form."

A total of five 55-gallon drums equipped with liners were used to store liquid evacuated from the separator on April , 1994. The drums were transported to General Chemical in Framingham, Massachusetts under a manifest tracking document on April 15, 1994. A copy of the manifest is attached.

Please call our office if you have any questions.

Sincerely, Handex of New England, Inc.

Elle & Thebodeau

Ellen R. Thibodeau Hydrogeologist

Jeau Joemelo

Ann Holmes **Project Manager**

Attachment



COMMONWEALTH OF MASSACHUSETTS MENT OF ENVIRONMENTAL PROT ION DEP DIVISION OF HAZARDOUS WASTE **One Winter Street** Boston, Massachusetts 02108

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9. Designated Facility Name and Site Address General Chemical 133 Leland Street Framingham, MA 01701	10. US EPA ID Number	<u>n 17 b</u>				
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EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

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GENERATOR MAILS TO DESTINATION STATE



HANDEX OF NEW ENGLAND, INC., 398 Cedar Hill Street, Marlborough, MA. 01752 • (508) 481-5750 • FAX (508) 481-5159

March 29, 1994

Mr. Robert Gulick Star Enterprise 520 Allen Avenue Providence, RI 02905

Re: Star (Texaco) Facility 881 Edgell Road Framingham, Massachusetts RTN # 3-4035

Dear Mr. Gulick:

This letter presents information regarding compliance with the Waiver of DEP Approvals obtained for the above location and additional site assessment activities.

As part of that Waiver Approval, a response to conditions 1 and 2 were requested. Condition 1 indicated the "purging of the oil/water separator" and condition 2 requested "proper disposal of the oil/hazardous materials and containers within 30 days of the acceptance of the approved Waiver Disposition Form." A review of site activities conducted to date indicated that conditions 1 and 2 were inadvertently not completed. Evacuation of the liquid from the separator into lined drums will be scheduled as soon as possible. Upon completion of separator evacuation, the drums will be transported to General Chemical in Framingham, Massachusetts for disposal. Copies of the manifests will be forwarded to Star Enterprise and the Department upon completion of the waste disposal. In addition, the Waiver Status Questionnaire and Certification of Submittal forms are attached for your signature.

To delineate the extent of hydrocarbons in groundwater on-site, two additional monitoring wells were installed on February 1, 1994. Groundwater samples were obtained from six on-site monitoring wells on March 23, 1994. Details of monitoring well installation and sampling will be included in a monitoring report to be prepared upon receipt of the analytical results. Preparation of a preliminary risk assessment and closure plan for this location is in progress.

If you have any questions please call our office.

Sincerely, Handex of New England, Inc.

RThibodear-

Ellen R. Thibodeau Hydrogeologist

Ann Holmes

Project Manager

Attachment

21

ATTACHMENT 2

CERTIFICATION OF SUBMITTAL (310 CMR 40.0009)

This certification must be included with your response to the Request for Information.

I certify under the penalties of law that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this certification, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained herein is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for wilfully submitting false, inaccurate or incomplete information.

Name (Print):

Position or title:

Signature:

Date:

WAIVER STATUS QUESTIONNAIRE

DEP RELEASE TRACKING NUMBER: 3 - 4005 WAIVER ACCEPTANCE DATE: June 28, 1993 CITY/TOWN: Framingham

Under the provisions of \$10 CMR 40.537(3)(g), a Waiver grantee is required to promptly submit to DEP the response action proposals and reports specified in 310 CMR 40.535. Please check below the status of response actions/submittals at this site.

Response Action	Completed	Submitted
40.535(1)(c): Phase II Scope of Work	_	—
40.535(1)(d): Phase II Report		
40.535(1)(a): Phase III Report	_	
40.535(1)(f): Phase IV Report		
40.535(1)(g): Final Inspection Report		
Remedial Action Completion Statement		
	YES	NO
Are you still the person responsible for work being	v	
conducted under the Waiver of Approvals at this site?	<u>×</u>	—
Do you currently have a person/firm under contractual		
agreement to perform response actions at this site?	<u>x</u>	
Is this the same person/firm that was listed in		
the approved Waiver Application?	<u> </u>	_
Has there been a change in site conditions which could		
result in reclassification or an Imminent Hazard?		<u>x</u>
Has an Interim Measure, as defined in DEP Policy		
#WSC-181-90, been initiated or completed at this site?	—	<u>x</u>
Is there an active remediation system currently in		
operation at the site?	_	<u>x</u>

CERTIFICATION: (pursuant to \$10 CMR 40.0009) I certify under the penalties of law that I have personally examined and am familiar with the above information contained in this submittal, including any and all documents accompanying this certification, and that, based on my inquiry of those individuals immediately responsible for obtaining this information, the material information contained herein is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties including but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

Signature of Waiver Applicant

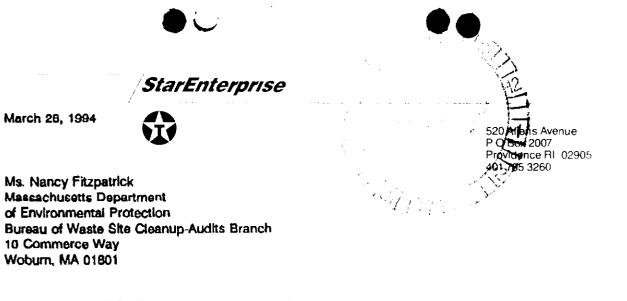
- bilick

Printed Name

<u>3-29-94</u> Date



P.08



Re: Notice of Audit; Request for Information Star Facilities: 1000 Washington Street, Dedham, MA RTN 3-4305 881 Edgell Road, Framingham, MA RTN 3-4005 8 Littleton Road, Chelmsford, MA RTN 3-3534

Dear Ms. Fitzpatrick:

The following is in response to a Notice of Audit and Request for Information from the Department of Environmental Protection (DEP) dated February 28, 1994, pertaining to the above locations.

The attached letters prepared by Handex of New England, Inc. on behalf of Star Enterprise indicate the response actions conducted in accordance with the Waiver of DEP Approvals obtained for each location. Additional site assessment and ongoing site actions for each location are also indicated in the letters. The Certification of Submittal (310 CMR 40.00009) and Waiver Status Questionnaire for each location are attached as requested in the Notice of Audit.

Star Enterprise is currently proceeding with the conditions of the waiver approval. If you have any questions please do not hesitate to call me at (401) 785-3260.

Sincerely, STAR ENTERPRISE

Mr. Robert A. Gulick Field Environmental Specialist

Attachments

cc: EKW ENV FILE Joe Italiano

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FILE COPY



Commonwealth of Massachusetts Executive Office of Environmental Affairs

Department of Environmental Protection Metro Boston/Northeast Regional Office

William F. Weld Governor Daniel S. Greenbaum Commissioner

> URGENT LEGAL MATTER: PROMPT ACTION NECESSARY CERTIFIED MAIL: RETURN RECEIPT REQUESTED

> > FEB 2 8 1994

Mr. Robert Gulick Star Enterprise 520 Allens Avenue Providence, RI 02905

> RE: FRAMINGHAM Texaco Service Station 881 Edgehill Road RTN 3-4005

> > NOTICE OF AUDIT; REQUEST FOR INFORMATION

Dear Mr. Gulick:

This notice is in regard to a "Waiver of Approvals" that was granted to you by the Department of Environmental Protection (DEP or Department) for this site. Such a Waiver was granted under the provisions of Massachusetts General Law Chapter 21E and the 1988 Massachusetts Contingency Plan (1988 MCP; codified as 310 CMR 40.000), and allows you, as the Waiver Recipient, to conduct comprehensive response/cleanup actions at this site without DEP oversight or approval.

The purpose of this notice is to (1) inform you that the Department is conducting an audit of response actions being undertaken at this site, (2) request that you submit to this Office specified information and/or reports pertaining to these response actions, and (3) inform you of what may happen as a result of this audit.

Basis and Scope of Audit

Massachusetts General Law Chapter 21E requires DEP to audit response actions not approved by the Department at sites of releases of oil or hazardous materials, in order to ensure that these actions are being conducted in accordance with M.G.L. c. 21E, the MCP, and other relevant laws and regulations. You were also informed of the Department's intent to audit actions at approved Waiver sites as a stated condition of Waiver approval. The rules and procedures governing such audits are further defined in 310 CMR 40.1100 of the 1993 MCP. (Note that the MCP was revised effective October 3, 1993, codified as 310 CMR 40.0000).

The audit of this site will be conducted by DEP staff in the Northeast Regional Office in Woburn. The audit will initially focus on specific actions that were required by the Department as a condition of Waiver approval. Additional response actions may also be examined as appropriate.

This notice describes the scope of the audit and the type of audit activities the Department initially intends to perform along with your responsibilities and relevant deadlines. A Fact Sheet and Flow Chart that describe the audit process are also included as Attachment 1 to this notice. Note that response actions may proceed as planned at this site during the audit, unless you are otherwise notified by DEP.

Request for Information

You countersigned the approved Waiver Disposition Form on June 28, 1993. In signing this Waiver, you agreed to conduct response actions at this site in conformance with the MCP, and to perform certain actions within a specified time frame. In checking our files, however, we could not locate submittals or documentation affirming that the following required actions were completed:

- (1) purging of the oil/water separator; and
- (2) proper disposal of the oil/hazardous material containers within thirty (30) days of the acceptance of the approved Waiver Disposition Form.

Pursuant to M.G.L. Chapter 21E Sections 2, 4 and 8, 310 CMR 40.0165, and 310 CMR 40.1120(1), you are hereby directed to submit to this Office, within 30 calendar days of the date of this notice, such information and/or documentation that may be required to demonstrate compliance with the above stated conditions. Such information and/or documentation may include re-submittal of reports and documents previously furnished to the Department regarding this matter, and/or other written materials and correspondence detailing compliance to such conditions.

Please note that the above deadline is being established as an "Interim Deadline" under the provisions of 310 CMR 40.0167. Note that you are also obligated under the provisions of 310 CMR 40.0165(2) to promptly provide the Department any information relevant to a "Request for Information" and correct any errors in

your response to this "Request for Information" at any time in the future when you discover such information or errors.

In addition to the above, you are requested to complete the enclosed "Waiver Status Questionnaire" and submit the completed form along with the requested documentation.

DO NOT IGNORE THIS REQUEST. Failure to respond to this request or the submission of false or misleading information or data may subject you and/or your officers and employees to further enforcement action by the Department, and/or may lead to the Department's withdrawal of approval of this Waiver. If you do not have any portion of the information requested in your possession, custody, or control, you must state this in your response, and identify the person(s), if known to you, from whom the information can be obtained. You must follow the procedures described in 310 CMR 40.0165(3) if you claim any information submitted is a trade secret or otherwise exempt from public disclosure.

All submittals made pursuant to this notice and Request for Information must contain the certification specified in 310 CMR 40.0009, and attached to this notice as "Attachment 2".

Responding to this Request

You may use a Consultant of Record or a Licensed Site Professional (LSP) to assist you in preparing this response.

Please send your completed response and required certification to:

Department of Environmental Protection Bureau of Waste Site Cleanup - Audits Branch 10 Commerce Way Woburn, MA 01801

ATTENTION: Nancy Fitzpatrick

Possible Outcomes of this Audit

At the completion of this phase of the audit the Department may:

- (1) issue a Notice of Audit Findings which may include a statement of deficiencies and steps to correct those deficiencies;
- (2) request that you, and if you chose, a representative, appear at the Department's office for an interview to provide an oral explanation and other supporting evidence

to demonstrate compliance and then issue a Notice of Audit Findings;

- (3) conduct site visits or site investigations and then issue a Notice of Audit Findings;
- (4) issue a Notice of Audit Findings and request that you participate in Compliance Assistance pursuant to 310 CMR 40.1150;
- (5) initiate enforcement actions listed at 310 CMR 40.1140(2) if violations of M.G.L. c. 21E or the MCP have been identified; and/or
- (6) withdraw approval of the Waiver, as specified in 310 CMR 40.537(10) of the 1988 MCP.

If you have any questions regarding this notice or any of the requirements contained in it, or believe that you cannot comply with its requirements, you should immediately contact Nancy Fitzpatrick at 617/935-2160 or the letterhead address.

Very truly yours,

-Intheatuck Kincy U.

Nancy A. Fitzpatrick Environmental Analyst

Patricia M. Donahue Chief, Compliance/Risk Reduction Bureau of Waste Site Cleanup

ENCLOSURES: Audit Fact Sheet Certification Statement Waiver Status Questionnaire

cc: Data Entry/Files BWSC Boston



520 Allens Avenue PIO Box 100,1 PI syden e Fit of PO 785 3264

July 22, 1993

Mr. Robert G. Campbell Environmental Analyst Massachusetts Department of Environmental Protection – Northeast Region 10 Commerce Way Woburn, Massachusetts 01801

Re: Results of Recent Ground-water Sampling DEP Case # 3-4005 881 Edgell Road Framingham, Massachusetts

Dear Mr. Campbell:

Attached are the results of laboratory analysis for ground-water samples collected from the above location on June 23, 1993, for your files. A Waiver Application for the site was approved by the Department of Environmental Protection (the Department) on June 21, 1993. Monitoring wells MW-1 through MW-4 were purged of approximately 3 well volumes of ground water with clean acrylic bailers, prior to sampling. Ground-water samples were obtained from each well using dedicated teflon bailers, cooled to approximately 4° celsius, and transported to Accutest Laboratories of Marlboro, Massachusetts under Chain of Custody protocol. The samples were analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX), and for methyl tertiary butyl ether (MTBE) using EPA Method 602. Laboratory certificates are attached.

Referring to the results, BTEX was not detected in MW-1 and MW-3. Ethylbenzene only was detected in MW-2 at a concentration of 47 parts per billion (ppb). Laboratory analysis indicated a concentration of 1,299 ppb BTEX in well MW-4. MTBE was not detected in MW-1, MW-2 and MW-4; a concentration of 4.7 ppb MTBE was detected in well MW-3.

If you have any questions or concerns, please do not hesitate to call me at (401) 785-3260.

Sincerely, STAR ENTERPRISE

Robert A. Gulick Environmental Coordinator

Attachments ac317 cc: JFL w/a Joe Italiano w/o ENV FILE w/a





06/28/93

TECHNICAL REPORT FOR HANDEX OF NEW ENGLAND INC.

SAMPLES TAKEN AT: TEXACO S/S, 881 EDGELL ROAD, CLIENT PROJECT ID: 105222-01 ACCUTEST JOB NUMBER: 930581N SAMPLES RECEIVED AT ACCUTEST ON: 06/24/93 NUMBER OF SAMPLES IN THIS REPORT: 4 TOTAL NUMBER OF PAGES IN REPORT: 8

REZA TAND LAB DIRECTOR



HANDEX OF NEW ENGLAND INC. 398 CEDAR HILL STREET MARLBOROUGH, MA 01752 DATE: 06/28/93 JOB No: 930581N PROJECT No: 105222-01 SAMPLE RECEIVED: 06/24/93

ATTN: J. ITALIANO

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SAMPLE No	COLI DATE	LECTED TIME	ВҮ	POINT OF COLLECTION
E302078N	06/23/93	09:30	EA	GROUND WATER - MW-1; TEXACO S/S, 881 EDGELL ROAD, FRAMINGHAM, MA
E302079N	06/23/93	09:50	EA	GROUND WATER - MW-2; TEXACO S/S, 881 EDGELL ROAD, FRAMINGHAM, MA
E302080N	06/23/93	09:40	EA	GROUND WATER - MW-3; TEXACO S/S, 881 EDGELL ROAD, FRAMINGHAM, MA
E302081N	06/23/93	09:20	EA	GROUND WATER - MW-4; TEXACO S/S, 881 EDGELL ROAD, FRAMINGHAM, MA

SAMPLE SUMMARY

Ŵ REZA TAND LAB DIRECTOR



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ANALYSIS REPORT

SAMPLE No	COLI DATE	LECTED TIME	ВУ		POIN	T OF COLI	LECTION	
E302078N	06/23/93	09:30	EA				TEXACO S/ MINGHAM, M	
TEST DESCRIPTI]	RESULT	MDL	UNITS	DATE	INIT
PURGEABLE AROM	ATICS, MTBE							
BENZENE	<u></u> .	<u></u>		ND	1.0	UG/L	06/24/93	BPO
ETHYLBENZEN	IE			ND	1.0	UG/L	06/24/93	BPO
TOLUENE				ND	1.0	UG/L	06/24/93	BPO
XYLENES, TO	TAL			ND	1.0	UG/L	06/24/93	BPO
METHYL TERI	TIARY BUTYL ET	HER		ND	1.0	UG/L	06/24/93	BPO

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ANALYSIS REPORT

SAMPLE NO	COLI DATE	LECTED TIME	ВҮ		POIN	T OF COLI	LECTION	
E302079N	06/23/93	09:50	EA	13		•	TEXACO S/ AMINGHAM, M	
TEST DESCRIPTI	ON		P	esult	MDL	UNITS	DATE	INIT
PURGEABLE AROM	ATICS, MTBE							
BENZENE			1	<u>ND</u>	1.0	UG/L	06/25/93	CAD
ETHYLBENZEN	IE			47	1.0	UG/L	06/25/93	CAD
TOLUENE		<u> </u>	1	ND	1.0	<u>UG/L</u>	06/25/93	CAD
XYLENES, TO	DTAL			ND	1.0	UG/L	06/25/93	CAD
METHYL TER	TIARY BUTYL ET	HER	1	ND	1.0	UG/L	06/25/93	CAD

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ANALYSIS REPORT

SAMPLE NO	COLI DATE	LECTED TIME	вұ		POIN	T OF COLI	LECTION	
E302080N	06/23/93	09:40	EA	H			TEXACO S/ MINGHAM, M	
TEST DESCRIPTI	ON]	RESULT	MDL	UNITS	DATE	INIT
PURGEABLE AROM	ATICS, MTBE							
BENZENE	,		.]	ND	1.0	UG/L	06/24/93	BPO
<u>ETHYLBENZEN</u>	1 <u>E</u>			ND	1.0	UG/L	06/24/93	BPO
TOLUENE			<u>_</u> ;	ND	1.0	UG/L	06/24/93	BPO
XYLENES, TO	TAL			ND	1.0	UG/L	06/24/93	BPO
METHYL TER	TIARY BUTYL ET	HER		4.7	1.0	UG/L	06/24/93	BPO

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ANALYSIS REPORT

SAMPLE NO	DATE TIME BY E302081N 06/23/93 09:20 EA GROUND WATER - MU 881 EDGELL ROAD, FEST DESCRIPTION RESULT MDL UNIT: PURGEABLE AROMATICS, MTBE ^A 54 5.0 UG/L	T OF COLI	COLLECTION					
E302081N	06/23/93	09:20	EA					
			F	ESULT	MDL	UNITS	DATE	INIT
PURGEABLE ARON	LATICS, MTBE"							
BENZENE				54	5.0	UG/L	06/26/93	CAD
<u> </u>	1E			260	5,0	UG/L	06/26/93	CAD
TOLUENE	• .	•,• · · · · · ·		45	5.0	UG/L	06/26/93	CAD
XYLENES, TO	TAL			940	5.0	UG/L	06/26/93	CAD
METHYL TER	TIARY BUTYL ET	HER		ND	5.0	UG/L	06/26/93	CAD

A MDL ELEVATED DUE TO DILUTION FACTOR

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ND = NOT DETECTED UG/L = PPB MG/L = PPM MDL = METHOD DETECTION LIMIT **.** .

LABORATORY CHRONICLE

ACCUTEST JOB #.....930581N

DATE SAMPLES RECEIVED.....06/24/93

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ACCUTEST Sanple &	SANPLE Date	ANALYTE	NETHOD	INITIAL PREP.	FINAL PREP.	PREP. Initials		ANALYSIS	ANALYST INITIALS
E302078N	06/23/93	PURGEABLE ARONATICS,NTBE	EPA 624N				06/24/93	06/24/93	8 P O
E302079N	06/23/93	PURGEABLE ARONATICS, NTBE	EPA 6248				06/24/93	06/25/93	CAO
E302080N	06/23/93	PURGEABLE AROMATICS,MTBE	EPA 624N				06/24/93	06/24/93	B P 0
E302081N	06/23/93	PURGEABLE ARONATICS,MTBE	EPA 624N				06/24/93	06/26/93	CAD

MANAGER	M1	DATE	6,	28	93
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Handes	398 CEDAR HILL STRE MARLBORO, MA 017			D OTHER:	TION ANALYSIS REQUEST	BTEX / MTBE									3. RECEIVED BY: SAMPLE LOCATION	RECEIVED BY
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Commonwealth of Massachusetts





Executive Office of Environmental Affairs Department of Environmental Protection

Metro Boston/Northeast Regional Office

William F. Weld Governor Daniel S. Greenbaum Commissioner

July 22, 1993

Re: #3-4005 Texaco Service Station 881 Edgell Road Framingham

Dear Waiver Recipient:

This letter concerns the referenced disposal site. M.G.L. c. 21E, Section 3A (d)(2) requires that the Department classify disposal sites as "priority" or "non-priority". The Department has reviewed the information available to it about the referenced disposal site, and has determined that it is a <u>non-priority</u> disposal site, pursuant to the Interim Site Classification requirements in the Massachusetts Contingency Plan, 310 CMR 40.544.

In addition, M.G.L. c. 21E, Section 14 (a) requires that, once a site has been classified, the Department publish a legal notice and press release informing the public of the location's status as a disposal site and its classification. The Department will issue a legal notice and press release containing this information on August 3, 1993, in the <u>Framingham Tab</u>.

Effective October 3, 1988, the extent of assessment and remediation required by M.G.L. c. 21E at locations and disposal sites is determined by reference to the Massachusetts Contingency Plan [310 CMR 40.000 et seq., promulgated pursuant to M.G.L. c. 21E, Sections 3, 3A(m), and 6.].

For more information about the legal notice for the referenced disposal site, please contact Karen Stromberg at the letterhead address or (617) 935-2160.

Very truly yours,

Karen Stromberg Regional Planner

Esher

Stephen M. Johnson Acting Chief, Site Assessment Branch

LEGAL NOTICE

COMMONWEALTH OF MASSACHUSETTS

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Pursuant to M.G.L. c. 21E, Section 14(a) and the Massachusetts Contingency Plan (310 CMR 40.00), the Department of Environmental Protection announces that a Preliminary Assessment and/or Limited Site Investigation has been performed at the following location: #3-4005, TEXACO SERVICE STATION, 881 EDGELL ROAD,

This investigation has confirmed that a release of oil and/or hazardous materials has occurred at this location. Therefore, the Department has identified it as a <u>confirmed</u> disposal site. The Department has also determined that this site is a <u>non-priority</u> disposal site (as defined by M.G.L. c. 21E, Section 2). M.G.L. c. 21E, Section 3A (f)(3) requires that, if feasible, permanent solutions be implemented at disposal sites. If a permanent solution is not feasible, then a temporary solution must be implemented, and a plan for achieving a permanent solution must be developed.

This site has also been granted a Waiver of Approvals by DEP. <u>Waiver</u> sites are non-priority disposal sites which have been granted a Waiver of Approvals by the Department, pursuant to 310 CMR 40.537. This waiver allows the person granted it to conduct remedial response actions at the disposal site without prior Department approval of these actions.

M.G.L. c. 21E and the Massachusetts Contingency Plan provide several opportunities for public notice of and involvement in decisions regarding response actions at disposal sites, including:

- * The Chief Municipal Official and Board of Health of the community in which the site is located will be provided with notices of the results of investigations, plans for remedial responses, and field work involving the use of heavy construction equipment and/or protective clothing (310 CMR 40.202).
- [°] Upon receipt of a petition from ten or more residents of the municipality in which the disposal site is located, or of a municipality potentially affected by a disposal site, a plan for involving the public in decisions regarding response actions at the site will be prepared and presented at a public meeting. This plan will be revised based on comments received, and will be implemented over the course of the response action (310 CMR 40.203).

For information on how to make an appointment to review the files and obtain more information on the confirmed disposal site referenced above, and the opportunities for public involvement during its remediation, please contact Karen Stromberg, DEP Northeast Regional Office, Site Assessment and Cleanup Section, 10 Commerce Way, Woburn, MA 01801 (Telephone: 617/935-2160). StarEnterprise



520 Allens Avenue P O Box 2007 Providence RI 02905 401 785 3260

April 16, 1993

Mr. Bob Campbell Massachusetts Department of Environmental Protection - Northeast Region 10 Commerce Way Woburn, Massachusetts 01801

Re: Waiver Application DEP Case # 3-4005 881 Edgell Road Framingham, Massachusetts

Dear Mr. Campbell:

In accordance with your April 5, 1993 telephone conversation with Handex of New England, Inc., enclosed are revisions to the Interim Site Classification Form (ISCF), Preliminary Assessment Report (PAR) and Waiver Application for the above location. As discussed, information presented under Criterion 3 and 4 of the ISCF now indicate that the site is located within a Zone II region, defined under 310 CMR 40.005 as a hydrologically defined area of contribution to a public water supply wellhead. On April 5, 1993, the Department indicated that the site presents no potential threat to public water supply wellheads located within the delineated Zone II area. As indicated in Criterion 3 of the ISCF, no public or private water supply wells are located within one-half mile of the site.

If you have any questions or concerns, please do not hesitate to contact me at (401) 785-3260.

Sincerely, STAR ENTERPRISE

Robert A. Gulick Environmental Coordinator

cc: JFL w\a J. Italiano w/o ENV FILE w/a STITEO BREDEALATISATERIA GETTA

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	WAI	VER APPLICAT	ON VIII TON DISPOSITION Use Only)	
1.	. Application Number: 93-	3-4005-1	Date Application	n Received: <u>3/25/93</u>
2.	Applicant Name: Rober	t Gulick, Sta	ar Enterprise	
	Applicant Address: <u>520 7</u> Prov	Allens Avenue idence		02905
	(C:	ity/Town)	(State)	(Zip)
з.	3. Site Name:Texa	co Service St	ation	
4.	. Site Address:881	Edgell Rd.,	Framingham	
	5. Site ID Number: <u>3-4405</u>	-		(City/Town)
2) imm oil	X Approve Conditions of Ap) To prevent opportunity of a mmediately secure service bay oil/hazardous material containe Denied Basis for denia	ed. pproval: 1) S ccess to or rel doors. Purge c ers within 30 d 1:	il/water separator, ays of acceptance of	ns on reverse side. s containers, and properly dispose of
Sig	ignature: <u>Stephen</u>	Acting Section Acting Section	pplication Dispos	: June 18, 199 : sition
		(Sig	nature of Applica	nt) (Date)

Applicant: For approved waiver applications, sign and date both disposition forms. Return one completed copy to the Department within 60 days of the approval date, retain the second copy for your records. **NOTE:** The approval will become invalid if the disposition form, signed and dated by the applicant, is not received by the Department within 60 days of the approval date.

Send completed form to:

Department of Environmental Protection Northeast Regional Office 10 Commerce Way Woburn, MA 01801 Attn: Site Management/ Waiver Unit

Supporting Information and Source:

BTEX was detected in ground-water samples collected from wells MW-1 thru MW-4 on November 30, 1992 at concentrations between ND and 6,420 ppb. MTBE was detected at concentrations between 2.9 and 370 ppb. However, there are no potable or private water supply wells located with one-half mile of the site. Water is supplied to the town of supply wells located with one-half mile of the site. Water is supplied to the town of supply wells located with one-half mile of the beaurce Authority, via the Quabbin Reservoir, Framingham by the Massachusetts Water Resource Authority, via the Quabbin Reservoir, focated 40 miles to the west. As indicated by the Department, the site is located within a located at miles to the west. As indicated by the Department, the site is located within a contribution to a public water supply wellhead. However, the site does not appear to present any potential threat to public water supply wellheads located within the delineated present any potential threat to public water supply wellheads located within the delineated breased.

Source: See Phase I Report by Handex, dated January 8, 1993.

Additional information is required to determine if Criterion 3 is met. Describe:

Met Not Met

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hazardous materials at or from the disposal site into surface water has occurred and that the release is upstream of a potable surface water supply intake structure or of the Criterion 4 is met if there is evidence of, or data that indicate that, a release of oil or echarge area of a municipal well(s), 4

unless there are data that indicate:

- that a hydrogeologic connection between the release of oil or hazardous materials into surface water and the recharge area does not exist, or
- that concentrations of oil or hazardous materials at the surface water supply intake or the municipal well have not and are not likely to exceed State or Federal drinking water standard/guidelines, or :=
- that concentrations of oil or hazardous materials at the surface water supply intake or the municipal well(s), for which there are no drinking water standards or guidelines, are not and are not likely to be harmful to those drinking the water ≔

Supporting Information and Source:

table surface. A fourth well, previously installed, also spans the water table. No liquid phase hydrocarbons During the Phase I - Site Investigation, Handex installed three monitoring wells, screened across the water have been detected in any of the four monitoring wells since installation. In addition, all underground storage tanks were removed from the location on November 6 and 7, 1991. No visible liquid petroleum hydrocarbons were observed during the removal.

Source: See Phase I Report by Handex, dated January 8, 1993.

Additional information is required to determine if Criterion 2 is met. Describe:

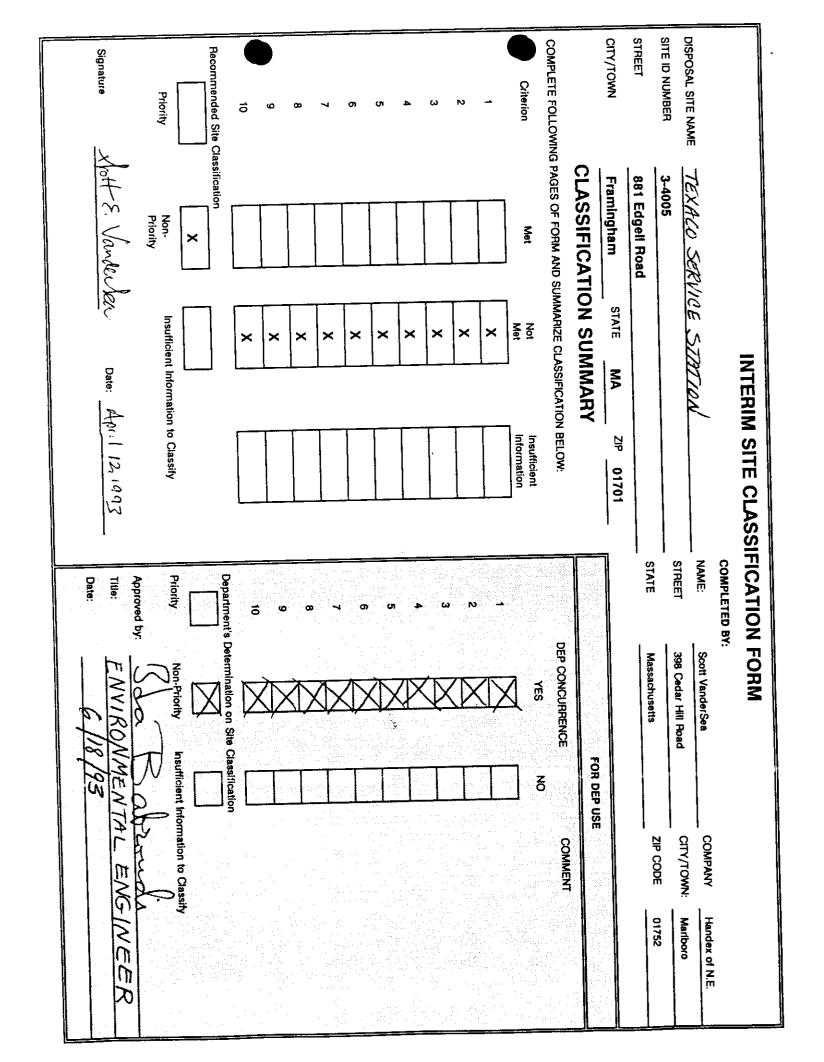
Met Not Met

X

- hazardous materials at levels exceeding state or federal drinking water standards/guidelines (or detectable levels of contaminants for which there are not state/federal standards or guidelines) and the data is based on samples taken from a Criterion 3 is met if there are data that indicate groundwater contamination with oil or ocation that: က်
- i, is within 2640 feet of a municipal water supply well(s), or
- is within a mapped cone of influence of a municipal water supply well(s), or :=
- is a private water supply well(s) or potentially affects a private water supply well, :≣

unless there are data which indicate:

- that a hydrogeologic connection does not exist between the groundwater containing oil or hazardous materials and the municipal water supply well, or ._**.**
- that the identified concentrations of oil or hazardous materials, for which there are no drinking water standards or guidelines, are not and are not likely to be harmful to those drinking the water, or :=**:**
- that the oil or hazardous materials have not migrated to are not likely to migrate to public or private water supply well(s) Ξ



Not Met ⊠							<u>Note</u> :
ы						.*	Check not m Only c for an
Criterion 2 is met if there is evidence of or data that indicate the presence of uncontained migrating oil or hazardous materials which exist as a separate phase in groundwater or surface water.	Additional information is required to determine if Criterion 1 is met. Describe:	Source: See Phase I Report by Handex, dated January 8, 1993.	No open lagoons, drum storage areas or sludges are present at the site. There is no opportunity for direct contact with surface oil or hazardous materials. No evidence exists indicating surface conditions which would adversely affect human or environmental receptors. The majority of the site is asphalt paved, and depth to ground water is approximately 17 to 19 feet, mitigating the potential for direct contact with hydrocarbon impacted soil.	Supporting Information and Source:	If conditions at the disposal site provide the opportunity for direct contact with surface oil or hazardous materials and there is evidence of, or data that indicate, surface conditions exist at concentrations that could adversely affect human or environmental receptors.	Criterion 1 is met if conditions at the disposal site provide the opportunity for direct contact with oil or hazardous materials via open lagoons, drum storage areas and sludges, or	Check appropriate box for each criterion indicating whether a criterion is met or not met or if information is inadequate to determine whether a criterion is met. Only one of these three boxes should be checked for each criterion. A disposal site cannot be classified as a non-priority disposal site if information is inadequate for any criterion.

INTERIM SITE CLASSIFICATION

Not Met \mathbf{X} ω table surface. A fourth well, previously installed, also spans the water table. No liquid phase hydrocarbons During the Phase { - Site Investigation, Handex installed three monitoring wells, screened across the water Supporting Information and Source: nazardous materials at levels exceeding state or federal drinking water standards/guidelines (or detectable levels of contaminants for which there are not liquid petroleum hydrocarbons were observed during the removal In addition, all underground storage tanks were removed from the location on November 6 and 7, 1991. No visible have been detected in any of the four monitoring wells since installation. Additional information is required to determine if Criterion 2 is met. Source Criterion 3 is met if there are data that indicate groundwater contamination with oil or hazardous materials at levels exceeding state or federal drinking water Describe: ≣ **;=**: location that: state/federal standards or guidelines) and the data is based on samples taken from a unless there are data which indicate: is within 2640 feet of a municipal water supply well(s), or is within a mapped cone of influence of a municipal water supply well(s), or is a private water supply well(s) or potentially affects a private water supply well, See Phase I Report by Handex, dated January 8, 1993 ÷ Š

- that a hydrogeologic connection does not exist between the groundwater containing oil or hazardous materials and the municipal water supply well, or
- =: that the identified concentrations of oil or hazardous materials, for which there are no drinking water standards or guidelines, are not and are not likely to be harmful to those drinking the water, or
- ≣ to public or private water supply well(s). that the oil or hazardous materials have not migrated to are not likely to migrate

Supporting Information and Source:

BTEX was detected in ground-water samples collected from wells MW-1 thru MW-4 on November 30, 1992 at concentrations between ND and 6,420 ppb. MTBE was detected at concentrations between 2.9 and 370 ppb. However, there are no potable or private water supply wells located with one-half mile of the site. Water is supplied to the town of Framingham by the Massachusetts Water Resource Authority, via the Quabbin Reservoir, From the the west. As indicated by the Department, the site is located within a located 40 miles to the west. As indicated by the Department, the site is located within a Zone II region, defined under 310 CMR 40.005 as the hydrologically defined area of contribution to a public water supply wellhead. However, the site does not appear to present any potential threat to public water supply wellheads located within the defineated Zone II area.

Source: See Phase I Report by Handex, dated January 8, 1993.

Additional information is required to determine if Criterion 3 is met. Describe:

Met Not Met

4 recharge area of a municipal well(s), the release is upstream of a potable surface water supply intake structure or of the Criterion 4 is met if there is evidence of, or data that indicate that, a release of oil or hazardous materials at or from the disposal site into surface water has occurred and that

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unless there are data that indicate:

- .that a hydrogeologic connection between the release of oil or hazardous materials into surface water and the recharge area does not exist, or
- **;=**: that concentrations of oil or hazardous materials at the surface water supply intake or the municipal well have not and are not likely to exceed State or Federal drinking water standard/guidelines, or
- Ξ or the municipal well(s), for which there are no drinking water stardards or guidelines, are not and are not likely to be harmful to those drinking the water. that concentrations of oil or hazardous materials at the surface water supply intake

				Met Not Met ⊠ 5.				
Additional information is required to determine if Criterion 5 is met. Describe:	Source: See Phase I Report by Handex, dated January 8, 1993.	There is no evidence of a release of oil or hazardous materials from the property to surface water that could result in a concentration which exceeds Ambient Water Quality criteria for the protection of aquatic life and human health. The closest down gradient surface water body is a small unnamed pond, located approximately 1,700 feet to the southeast. Ground-water is encountered between 17 and 19 feet across the property, and does not intercept ground surface at or in the vicinity of the site.	Supporting Information and Source:	Criterion 5 is met if there is evidence of, or data that indicate that, a release of oil or hazardous materials at or from the disposal site to surface water has resulted or could result in a concentration which exceeds Ambient Water Quality Criteria for the protection of aquatic life or human health.	Additional information is required to determine if Criterion 4 is met. Describe:	Source: See Phase I Report by Handex, dated January 8, 1993.	There is no evidence or data to indicate that there has been a release of oil or hazardous materials at or from the property into surface water. There are no surface waters on the site. The closest surface water body is Hop Brook, located approximately 800 feet to the north, side gradient from the site. As previously discussed, the site is located within a Zone II region; the Department has indicated that the site presents no potential threat to municipal wellheads in the Zone II. The site is not upgradient of any potable surface water supply.	Supporting information and Source:

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					Met Not Met				Met Not Met ⊠⊠6.
Additional information is required to determine if Criterion 7 is met. Describe:	Source: See Phase I Report by Handex, dated January 8, 1993.	Petroleum hydrocarbons detected at the disposal site are confined to the subsurface soil and ground water. The site is paved with asphalt, preventing the migration of vapors to the atmosphere.	Supporting Information and Source:	Criterion 7 is met if there is evidence, or data that indicate that there are or there could be air emissions at or from the disposal site which could adversely impact human or environmental receptors.	Additional information is required to determine If Criterion 6 is met. Describe:	Source: See Phase I Report by Handex, dated January 8, 1993.	There is no data or evidence to indicate that the former service station property poses a threat of fire or explosion. No liquid phase hydrocarbons have been detected on the water table surface in any of the four site monitoring wells. Additionally, all underground storage tanks were removed from the property in November of 1991.	Supporting Information and Source:	Criterion 6 is met if there is evidence of, or data to indicate that, the disposal site poses a threat of fire or explosion.

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	Not Met				Not Met
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Supporting Information and Source:	Criterion 9 is met if there are data or any other information that indicate that the disposal site may pose a significant or otherwise unacceptable rick of harm to health, safety, public welfare, or to the environment if left in its present state for several years. Note: This criterion is to be used only if none of the previous eight criteria were met, and no additional information is required.	Additional information is required to determine if Criterion 8 is met. Describe:	Source: See Phase I Report by Handex, dated January 8, 1993.	Supporting Information and Source: Field investigations indicate that no agricultural properties are located in the vicinity of the disposal site. Subsurface hydrocarbons are contained in soil and ground water. The site is asphalt paved, and ground water is encountered between 17 and 19 below the surface. Therefore, there are no migration pathways to the human food chain.	Criterion 8 is met if there is evidence of, or data that indicate that, releases of oil or hazardous materials at or from the disposal site have affected or could affect the human food chain.

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There is no other information to indicate that the disposal site may pose a significant or unacceptable risk of harm to health, safety, public welfare or to the environment if left in its present state for several years. Presently, there is no risk of exposure to oil or hazardous materials at the site because depth to ground water is approximately 17 to 19 feet, and majority of the site is asphalt paved.

						Met	
						Not Met	
Additional information is required to determine if Criterion 10 is met. Describe:	Source: See Attached Phase I Report by Handex, dated January 8, 1993.	There are no schools located within 500 feet of the property.	Supporting Information and Source:	an increased risk of exposure to children from containination in air, water or solution of a school shall be measured from the closest point of the school building being used as a school shall be measured from the closest point of the school building to the nearest known point of contamination. A <u>school building</u> or a <u>building being used as a school</u> means any facility used for the full time education of children in kindergarten and/or grades one through twelve which is under the control of a school committee, regional district school committee, local trustees of vocational education or district trustees of vocational education. This shall also include schools of the same type which are supported and maintained by individuals (private schools). This definition shall not include colleges, universities, buildings used for instruction or short duration (e.g., dance or pottery classes) or seasonal activities (e.g., summer camps) This definition will also not include preschools or nursery schools, or facilities providing day care for young children that are located in buildings not otherwise fitting the definition of "school" as above.	10. Criterion 10 is met if the disposal site is located within 500 feet of a school and causes	Additional information is required to determine if Criterion 9 is met. Describe:	Source: See Phase I Report by Handex, dated January 8, 1993.

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MEMORANDUM

TO: File No.: 3-4005, (Former) Texaco Station 881 Edgell Road, FRAMINGHAM
FROM: Robert G. Campbell, Environmental Analyst BWSC DEP NERO - Waiver Group

DATE: May 5, 1993

SUBJECT: Waiver Reconnaissance

On Tuesday, May 4, 1993 at 11:00 AM, Robert G. Campbell of DEP, Waiver Unit, Site Assessment, NERO, and Edward J. Weagle, SARSS Contractor of PEER Consultants, met with Jim Wagner of Handex of New England, Inc. (Handex) at the property located at 881 Edgell Road, Framingham, hereafter referred to as the **Site**. Weather conditions while at the Site were partly sunny with temperatures in the mid-60's.

This memorandum will be based upon observations made during site reconnaissance and from data extracted from the Handex January 11, 1993 report entitled: <u>Phase I - Site Investigation</u>. This memorandum will also include information present in the Department files or at the Department's disposal. All of the referenced material will be referred to as the **report**.

Site Specifics

The site occupies approximately 10,000 square feet and is located on Edgell Road, Framingham in a mixed zone of residential and commercial properties. The site has been operated as a service station by various owners since 1960. Although currently vacant, commercial development of the site is planned.

The site rests at street level on its western perimeter (Edgell Road), but the eastern third of the property slopes sharply into an abutting mall parking lot, giving the site a perched view of the mall to the southeast and south. The nearest residential property is approximately 500 feet to the southwest, across Edgell Road. An Exxon Service Station is located directly west across the street. A Mobil Service Station lies approximately 200 feet northwest, across Edmands Road. The Nobscot Professional Building abuts to the north.

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Potentially Sensitive Receptors

As reported, drinking water is supplied by the Quabbin Reservoir, approximately 40 miles west. No public or private wells are known to exist within a 1/2 mile radius. The closest surface water bodies are Hop Brook, 800 feet to the north, and a small unnamed pond approximately 1,700 feet to the southeast. The site resides within the boundary of a designated Zone II, but a review of the site file by James H. Persky, Environmental Analyst, Water Supply, NERO indicates that the site poses no threat to any public water supply.

There are no schools within 500 feet of the site.

Geology and Groundwater Flow

The subsurface soils consist of approximately 15 feet of mixed brown fine to medium sand with lenses of medium to fine gravel, these overlie a one to three-foot layer of medium to fine gravel and medium to fine sand. Auger refusal at 25 feet was experienced in one well in what was believed to be bedrock; but as no core sample was collected, depth to bedrock was not confirmed. Groundwater was encountered at depths of 15 to 17 feet and found to be flowing in an east-southeasterly direction.

Underground Storage

On November 6-7, 1991, four 4,000-gallon and one 6,000-gallon gasoline UST's were excavated. In addition, one 1,000-gallon fuel oil UST and one 550-gallon waste oil UST were removed.

Underground Utilities/Potential Migration Pathways

Municipal water and sewer utilities are located below Edgell Road just beyond the property boundary. Telephone, electric service, storm drains, and possibly, fire hydrant lines may exist, but conclusive proof of their existence was not provided.

Reportedly, the primary pathway for soluble phase hydrocarbon migration appears to be groundwater at 15 to 17 foot depths. No intersection points of the groundwater with the surface were observed.

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Reportedly, the primary pathway for soluble phase hydrocarbon migration appears to be groundwater at 15 to 17 foot depths. No intersection points of the groundwater with the surface were observed. A secondary pathway for migration is believed to be volatilization from groundwater into the soil vadose zone, as attested by vapor recovery activities. Most of the site is under asphalt pavement, and communication of vapors from the vadose zone to air seems to be nominal. However, as several unpaved sections exist on the site, and continued deterioration of the pavement can result from the effects of surface weathering, then pathways for vapor migration may develop.

Subsurface Investigations

Organic vapor screening was performed during the installation of wells MW-2 and MW-4 on November 19-20, 1992. Organic vapors were not detected during the advancement of MW-3 boring.

Split-spoon samples of soil were collected during the installation of the three monitoring wells (MW-2, MW-3, and MW-4) on November 19-20, 1992. Method 602, 624, and 418.1 analyses of these samples showed the presence of xylene in one well (MW-2) at 1.1 ppb. TPH's were detected at levels ranging from <25 to 130 ppm.

Method 602 analysis of groundwater samples, collected on November 30, 1992, from four monitoring wells showed total BTEX concentrations ranging from no detection to 6,420 ppb. Xylene was the most significant contributor at 5200 ppb. MTBE concentrations from the same wells were detected at levels from 2.9 to 370 ppb.

FINDINGS - SUMMARY - CONCLUSIONS

Upon arrival, Mr. Wagner provided access to all four groundwater monitoring wells. Each well was secured with a steel padlock and a plastic tamper-proof tie. Each of the monitoring wells was screened for the presence of volatile organic compounds (VOC's) within the well casing head space with a calibrated HNu photoionization detector. Measurements ranged from no detection to 20 ppm, but the instrument exhibited erratic behavior so that some of the readings may be in error. Wells were gauged with an electronic interface probe and checked for floating product. No free product was observed in any of the wells.

During the site inspection, two additional subsurface access points were observed. When asked about these monitoring points, Mr. Wagner indicated that they were installed in anticipation of waiver approval and would be used to implement interim measures. These measures would include an air sparging and vapor recovery system. A secondary pathway for migration is believed to be volatilization from groundwater into the soil vadose zone, as attested by vapor recovery activities. Most of the site is under asphalt pavement, and communication of vapors from the vadose zone to air seems to be nominal. However, as several unpaved sections exist on the site, and continued deterioration of the pavement can result from the effects of surface weathering, then pathways for vapor migration may develop.

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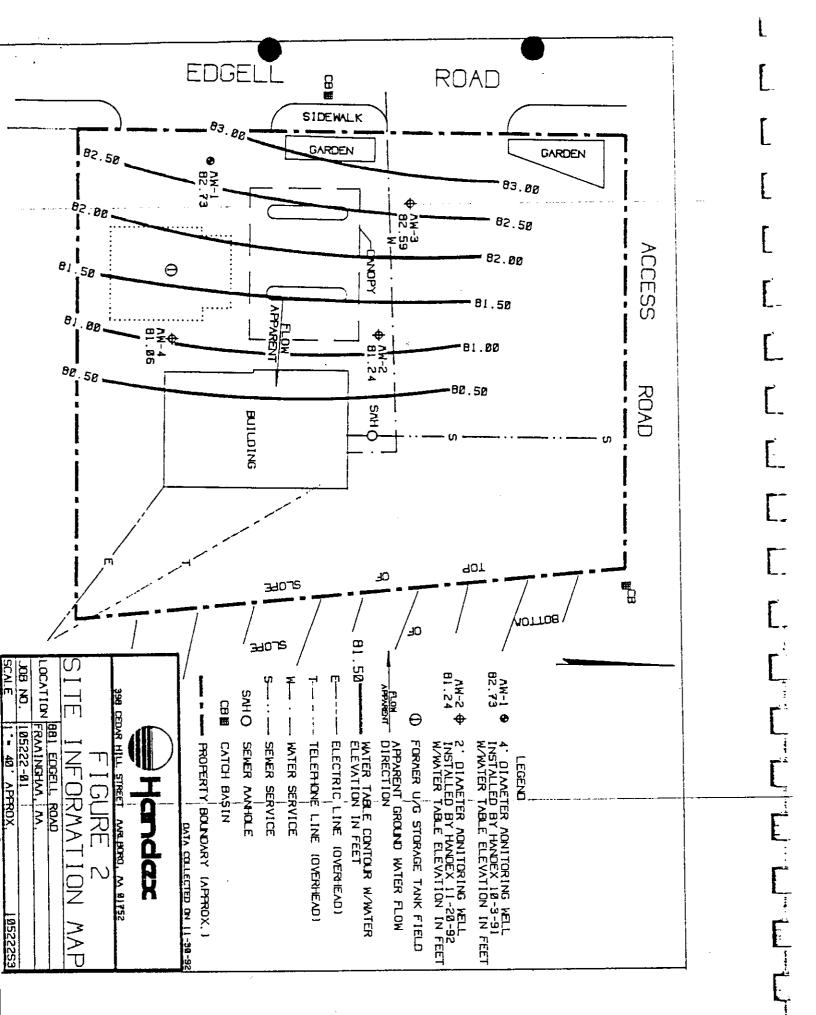
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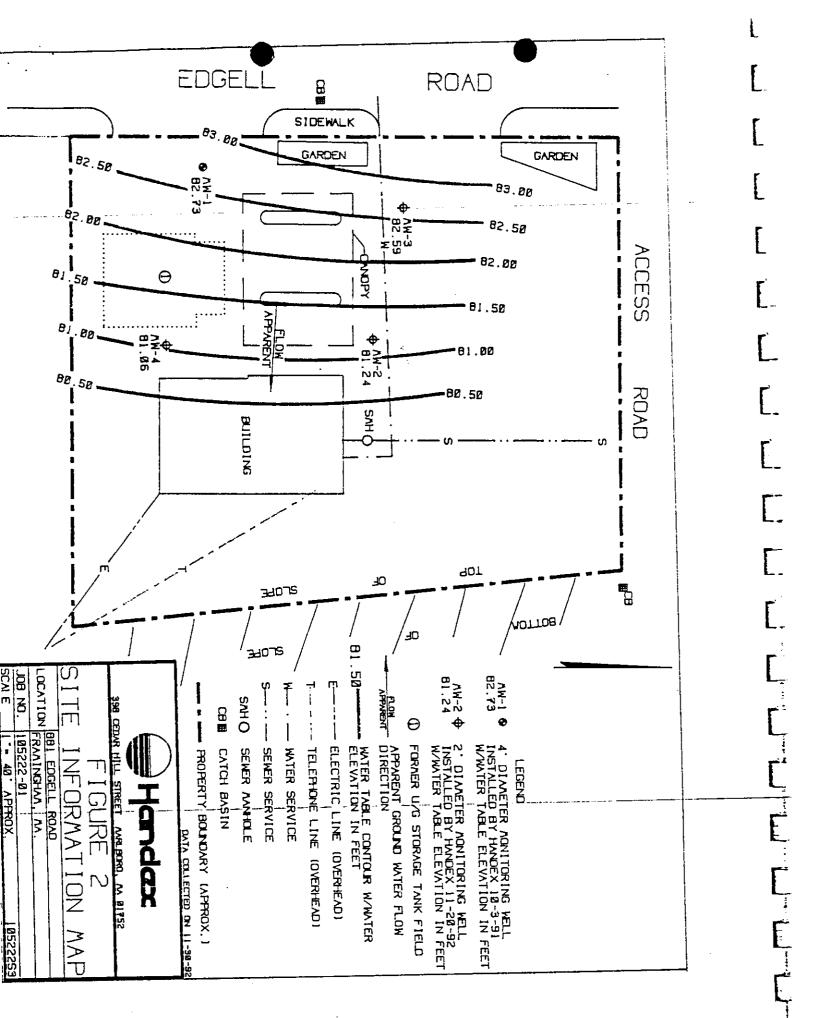
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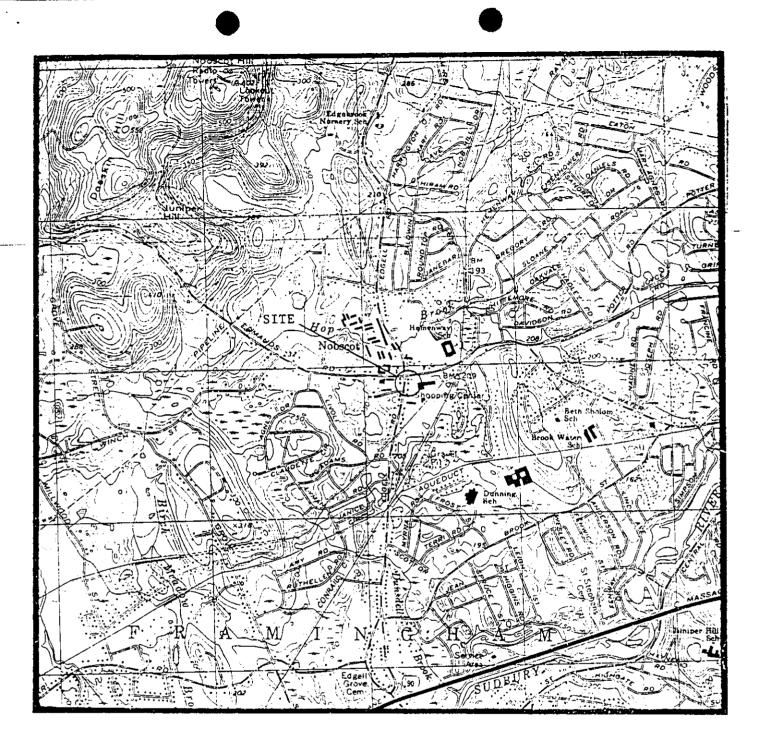
Conditions at the site were not inconsistent with the Phase I Report; however, as conditions of approval, decontamination of the interior of the service bay must include proper disposal of hazardous waste/oil containers, the draining and purging of the oil/water separator, proper disposal of general debris inside the service bay, and the installation of a working lock for securing the service bay door. If soil venting or air-sparging systems are installed for remediation purposes, then the excavation sites should be paved over to prevent short-circuiting for either of these remedial measures. No other complications were observed which would preclude the processing of this Waiver Application. The excavation sites of the former UST's were back-filled but unpaved. The service bay door was unsecured, allowing free access to the service bay. Examination of the interior of the service bays showed an oil-water separator trap containing foul-smelling water; this water was discharged through a baffle into a town sewer; a sheen was detected on the surface of this water, but whether the sheen was hydrocarbon product or a biological residue could not be determined. A floor drain in the service bay was uncovered and displayed heavy staining, and discharged into a town sewer. Debris, including several metal and plastic containers of solvents and/or oil were ubiquitous in the service bay. Two hydraulic lifts were observed and appeared intact.

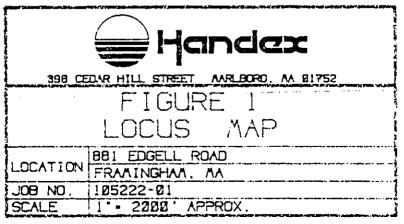
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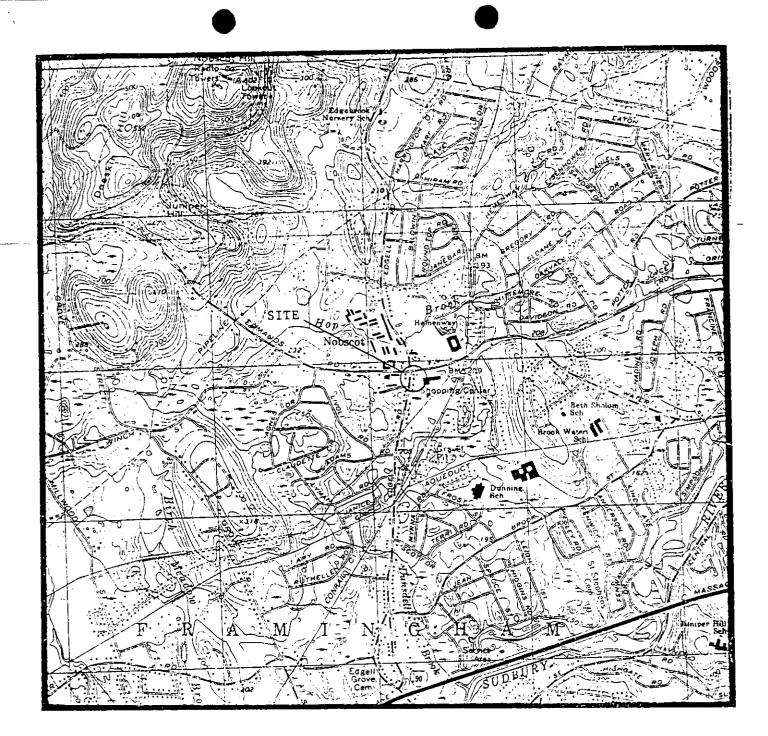


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396 CEDAR HILL STREET MALBORD, M B1752
FIGURE I Locus Map
BB1 EDGELL ROADLOCATIONFRAAINGHAA. AAJOB ND.105222-01SCALE1" - 2000" APPROX.

Commonwealth of Massachusetts



Executive Office of Environmental Affairs

Department of Environmental Protection Metro Boston/Northeast Regional Office

William F. Weld Governor Daniel S. Greenbaum Commissioner

MEMORANDUM

April 2, 1993

TO	:	Ida Babroudi, Waiver Unit, Site Assessment, NERO
FROM THRU	: :	James H. Persky, Environmental Analyst, Water Supply, NERO JH Chester Masel, Chief, Water Supply, NERO
SUBJEC	T:	WAIVER REVIEWTexaco Station, 881 Edgell Road, Framingham, MA

The Division of Water Supply has reviewed the available information on the subject site. The site is along the boundary of the Zone II for the Town of Sudbury's Raymond Road aquifer, which includes five of Sudbury's eight active wells. This Zone II is about to be approved by the Division of Water Supply. The nearest of Sudbury's wells is about 10,000 feet from the site. There is also a noncommunity public supply well at the Davitt Children Center at 1301 Edgell Road in Framingham, near the Sudbury town line.

Note that the soil sample collected during drilling of monitoring well MW-1 contained 130 ppm of TPH. This is considered to be the upgradient well.

This site does not pose a threat to any public water supply.

cc: Robert Campbell, DEP, Waiver Unit

(Case No. 3-4005)

WAIVER	RECONNAISBANCE	CHECKLIST

TOHNI/SITE : FRAMINGH	M (FORMER) TEXACO	STATIONIVERION	MBERI 93-3-4005-1	
STAFF PERSONI Robert				

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- [2] WALKOVER/CONSULTANT INPUT Walk the fite, noting pertinent features, topography, locations of source areas, monitoring wells. Try to integrate written (report) information with visual observation, to (1) get a better understanding of site/contaminant conditions, and potential pollutant receptors, and (2) to confirm that site conditions are not inconsistent with what has been presented in report submittals. Question consultant, where necessary to resolve old or newly discovered issues. REMEMBER WAIVER OBJECTIVES: THE SITE DOES NOT NEED TO BE FULLY CHARACTERIZED AT THIS POINT IN THE PROCESS; WE NEED JUST ENOUGH INFORMATION TO CLASSIFY SITE, AND FEEL REASONABLY CERTAIN THAT THE APPLICANT/CONSULTANT APPEAR TO BE ON THE "RIGHT TRACK".

Where appropriate, screen headspace in key g.w. monitoring wells with PID meter. The purpose of this action is to see if headspace results seem to be consistent with reported information. Key problem areas: Positive headspace reading in well where VOCs were not reported (perhaps leading edge of plume), high readings (hundreds of ppm v/v) or strong odors indicating floating product (where none was reported).

۵.	Was consultant present during inspection?
ь.	Were site conditions INCONSISTENT with submitted reports? (NO) YES (If yes, explain fully in site reconnaissance memo)
PROB	TEHS - Don't spend a lot of time looking, but note if:
a.	Unreported drums with unidentified origin or contents?
Ь.	Contaminated soil stockpiles present more than 4 months? yes 6
с.	Discharge pipes of unknown origin/exhibiting contamination7 yes 60 (IF YES, NOTIFY DEP SUPERVISOR UPON RETURN TO OFFICE)
đ.	Surficial and/or other contamination not addressed in submitted reports?
е.	Vent pipes indicating unidentified/unreported UST7
ſ.	Does there appear to be any schools near (<500 ft) the site? yos
	[042]

[2]

NOCB - Is NOC contamination present/suspected?....no Approx distance to nearest down-gradient residential/school/day-care ft (circle type of structure, above) building: N 500 If less than 100 feet from known/potential g.w. contaminant plume, indicate ь. presumed depth to g.w. at this structure, hased upon information in report submittals and area topography: ft Approx conc. of g.w. VOC in plume nearest this structure: ug/I с. SURFACE / DEVELOPMENT BETWEEN PLUME & THIS STRUCTURE ٦. FLOATING PRODUCT - Is floating product present? ... , No) Greatest thickness recorded: ft Δ. Approx depth to groundwater: ______ ь. ft Approx distance to nearest underground utility(les): N 20 ft c. type: 📝 sanitary/combined sewar 📝 storm drain 📝 telephone/electrical ___ other: d. If product plume within 50 feet of underground utilities, is the invert elevation of pipes/conduits at elevation of groundwater table/interface? can't tell yes If yes or don't know, did consultant pull manhole covers N/A. yes in potentially impacted area? ло Did this investigation indicate the presence of product, staining, no N/A no f. (no NOTES:

a variety of constainers of oil/solocates were discovered in the service bay. and oil water separator pet fisplayed a sheen, nature unknown. Debus everywhere. Service Bay doors were unsecured.

SCANNED

	Database File						
	WAIVER TRACK	<u>KING FO</u>	<u>RM</u>		Ę	SCA	NNED
Muni	icipality:Framingham					-• \/	WVED
Site	Name: Former Texaco Service	Statio	n				
Site	Address: 283 Edgell Rd.						
Cons	sultant: Handex of New England						
Date	Application Received: Boston	03/08	/93	_ Wob	urn _	03/25	/93_
	the site been previously classi				_		
		LLIEU:		_ 165	_ _	NO	
Disp	position:						
	Priority Non-Priority						
	Approved Denied		Da	ate: _			
Reco	mmendation for Audit:						
			leas				most_
	Extent/Nature of Contamination		1	(2)	3		5
(2)		on		2			—
	Site/Remedial Complexity			(2)			-
	Potential for Receptor Impact			(2)			
(5)	Other Considerations		1	2	3	(4)	5
	Total	13					
resc	ments: Consultant required seven olve minor issues. Consultant h ignated Zone II water supply.						
Hold	l Dates: 4/5/93 - 5/4/93						
Reas	WAF.	c compl	etio	on of	PAR,	ISCF,	and
Prep	pared by: Robert G. Campbell	レDa	te:	5/19/	93		
Titl	le: Environmental Analyst Tot	al Hou	rs:	13.	0		
Affi	liation: Massachusetts DEP/NEF	ર૦					

•	·	۰.	-	SECTION VIII
				WAIVER APPLICATION DISPOSITION
				(For DEP Use Only)

3-4005

1. Application Number: <u>93-3-4005-1</u> Date Application Received: <u>3/25/93</u> 2. Applicant Name: Robert Gulick, Star Enterprise <u>SCANNED</u> Applicant Address: <u>520 Allens Avenue</u> <u>Providence</u> <u>RI</u> <u>02905</u> (City/Town) (State) (Zip) 3. Site Name: <u>Texaco Service Station</u> 4. Site Address: <u>881 Edgell Rd., Framingham</u> (City/Town) 5. Site ID Number: <u>3-4405</u> 6. Disposition Waiver Application Determination. (Check One) X Approved. Conditions of Approval: 1) See addendum conditions on reverse side. 2) To prevent opportunity of access to or release of oil/hazardous containers, immediately secure service bay doors. Purge oil/water separator, and properly dispose of oil/hazardous material containers within 30 days of acceptance of the Waiver. Denied. Basis for denial: Application reviewed by: <u>Stephen M. Johnson</u> Acceptance of Waiver Application Disposition
Applicant Address: 520 Allens Avenue Providence RI 02905 (City/Town) (State) (Zip) 3. Site Name: Texaco Service Station 4. Site Address: 881 Edgell Rd., Framingham (City/Town) 5. Site ID Number: 3-4405 6. Disposition Waiver Application Determination. (Check One) X Approved. Conditions of Approval: 1) See addendum conditions on reverse side. 2) To prevent opportunity of access to or release of oil/hazardous containers, immediately secure service bay doors. Purge oil/water separator, and properly dispose of oil/hazardous material containers within 30 days of acceptance of the Waiver. Denied. Basis for denial: Application reviewed by: Stephen M. Johnson Acting Section Chief, Site Management Branch Signature: May May May Date: June 18, 1993 Acceptance of Waiver Application Disposition
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Acting Section Chief, Site Management Branch Signature:
Acting Section Chief, Site Management Branch Signature:
Signature: <u>Laphen M. Johnson Date</u> : <u>June 18, 1993</u> Acceptance of Waiver Application Disposition
Acceptance of Waiver Application Disposition
I understand and agree to any and all additional conditions specified above
for an approved application. $A \sim A A$
the approved
MUT 12 JOULER 6128193
(Signature of Applicant) (Date)
Applicant: For approved waiver applications, sign and date both disposition
forms. Return one completed copy to the Department within 60 days of the
approval date, retain the second copy for your records. NOTE: The
approval will become invalid if the disposition form, signed and dated by the applicant, is not received by the Department within 60 days of the
approval date.
Department of Environmental Protection
Send completed form to: Northeast Regional Office
-
10 Commerce Way Woburn, MA 01801

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ADDENDUM TO WAIVER APPLICATION DISPOSITION FORM NORTHEAST REGIONAL OFFICE May, 1993

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Please note the following instructions and conditions:

- (1) Sign and return one copy of the WAIVER APPLICATION DISPOSITION Form (Section VIII) to: Massachusetts DEP, Northeast Regional Office, 10 Commerce Way, Woburn, MA 01801, Attn: Site Assmt Sect/ Waiver Unit. Retain one copy of the form for your records.
- (2) It is the responsibility of the Waiver Recipient to promptly notify the Local Board of Health and Chief Municipal Official (i.e. Mayor, Manager, Selectmen) in the affected community(ies) of Waiver approval. Notice shall be provided in writing and be copied to this Office. Notification to local officials shall include a copy of the Waiver Application Disposition Form.
- (3) Required reports and other document submittals to this Office must clearly indicate the DEP Case Number and contain the designation "Waiver Submittal".
- (4) Contaminated soils from this site may not be transported to any other location within Massachusetts without specific approval from this Office. Unapproved, off-site disposition, including treatment, reuse, or disposal, may constitute a "release" of oil or hazardous materials and create a new "site".

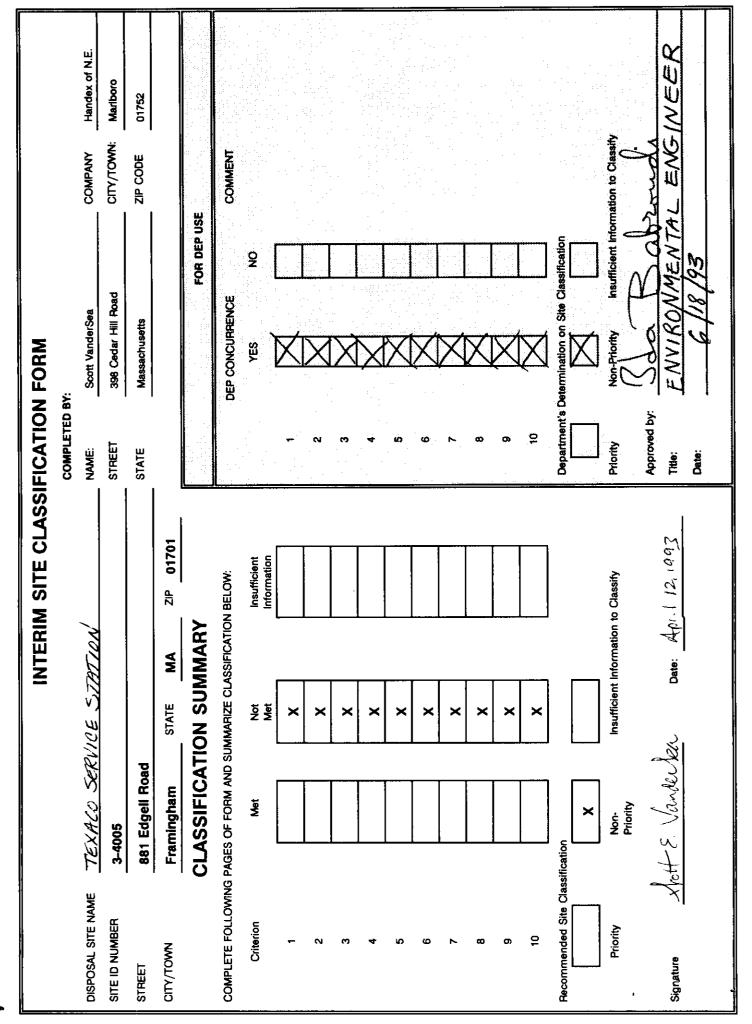
Soils contaminated only with virgin petroleum fuels should be handled in accordance with DEP's "Management Procedures for Excavated soils Contaminated with Virgin Petroleum Oils" (Policy #WSC-400-89). Treatment or reuse options are preferred. In-state landfill disposal will only be considered if documentation is provided that all available and applicable treatment options are not feasible.

Soils contaminated with other oils or hazardous materials require site-specific approval, unless transported by a licensed hazardous waste transporter, under manifest, to a licensed facility, per 310 CMR 30.00, the "Massachusetts Hazardous Waste Regulations". Proposals to treat, dispose, or reuse contaminated soils outside of Massachusetts must conform to all applicable in-state and out-of-state regulatory requirements, but do not otherwise require approval from the Regional Office.

The review and approval of soil disposition proposals by the Department is solely from the context of preventing releases of oil and hazardous materials in new locations, and is not to be construed as a review or approval of the Final Remedial Response Plan for the Waiver site under consideration.

- (5) If a public involvement petition has been or is hereafter submitted for the site under M.G.L. c. 21E, Section 14(b) and 310 CMR 40.203, the waiver grantee must develop and implement a Public Involvement Plan in accordance with 310 CMR 40.203(4) and DEP's "Public Involvement Plan Interim Guidance for Waiver Sites".
- (6) Applicants are reminded of the necessity to comply with the risk characterization and permanency requirements specified in 310 CMR 40.545.
- (7) Dissolved Volatile Organic Compounds (VOCs) at the water table interface can partition into the soil gas, and migrate into subsurface structures, including basements. Such a migration pathway should be considered at sites where water-table plumes of dissolved VOCs are identified proximate to or under inhabited structures.
- (8) This Office should be notified in writing immediately in the event of a shut-down, for any reason, of any treatment system(s) operating at the site. This could potentially affect site conditions, and could warrant a re-evaluation by the Department of the "Non-Priority" site classification.
- (9) This Office will conduct detailed audits on selected Waiver sites, on both a random basis and as a result of our initial review of Waiver applications and report documents submitted (or not submitted) pursuant to the conditions specified in section IV.

Any questions regarding this matter should be directed to the above-specified address.



INTERIM SITE CLASSIFICATION

site Only one of these three boxes should be checked for each criterion. A disposal Check appropriate box for each criterion indicating whether a criterion is met or not met or if information is inadequate to determine whether a criterion is met. cannot be classified as a non-priority disposal site if information is inadequate for any criterion. Note:

Met Not Met

X

Criterion 1 is met if conditions at the disposal site provide the opportunity for direct contact with oil or hazardous materials via open lagoons, drum storage areas and sludges, <u>or</u> ÷---

If conditions at the disposal site provide the opportunity for direct contact with surface oil or hazardous materials and there is evidence of, or data that indicate, surface conditions exist at concentrations that could adversely affect human or environmental receptors.

Supporting Information and Source:

No open lagoons, drum storage areas or sludges are present at the site. There is no opportunity for direct contact with surface oil or hazardous materials. No evidence exists indicating surface conditions which would adversely affect human or environmental receptors. The majority of the site is asphalt paved, and depth to ground water is approximately 17 to 19 feet, mitigating the potential for direct contact with hydrocarbon impacted soil.

Source: See Phase I Report by Handex, dated January 8, 1993.

Additional information is required to determine if Criterion 1 is met. Describe:

Met Not Met

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Criterion 2 is met if there is evidence of or data that indicate the presence of uncontained migrating oil or hazardous materials which exist as a separate phase in groundwater or surface water. N

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Supporting Information and Source:

During the Phase I - Site Investigation, Handex installed three monitoring wells, screened across the water table surface. A fourth well, previously installed, also spans the water table. No liquid phase hydrocarbons have been detected in any of the four monitoring wells since installation. In addition, all underground storage tanks were removed from the location on November 6 and 7, 1991. No visible liquid petroleum hydrocarbons were observed during the removal.

Source: See Phase I Report by Handex, dated January 8, 1993.

Additional information is required to determine if Criterion 2 is met. Describe:

Met Not Met

 \mathbf{X}

- hazardous materials at levels exceeding state or federal drinking water standards/guidelines (or detectable levels of contaminants for which there are not state/federal standards or guidelines) and the data is based on samples taken from a Criterion 3 is met if there are data that indicate groundwater contamination with oil or ocation that: က်
- is within 2640 feet of a municipal water supply well(s), or

- is within a mapped cone of influence of a municipal water supply well(s), or :=
- is a private water supply well(s) or potentially affects a private water supply well, :≡

unless there are data which indicate:

- that a hydrogeologic connection does not exist between the groundwater containing oil or hazardous materials and the municipal water supply well, or ._____
- that the identified concentrations of oil or hazardous materials, for which there are no drinking water standards or guidelines, are not and are not likely to be harmful to those drinking the water, or :=
- that the oil or hazardous materials have not migrated to are not likely to migrate to public or private water supply well(s).

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Supporting Information and Source:

BTEX was detected in ground-water samples collected from wells MW-1 thru MW-4 on November 30, 1992 at concentrations between ND and 6,420 ppb. MTBE was detected at concentrations between 2.9 and 370 ppb. However, there are no potable or private water supply wells located with one-half mile of the site. Water is supplied to the town of Framingham by the Massachusetts Water Resource Authority, via the Quabbin Reservoir, located 40 miles to the west. As indicated by the Department, the site is located within a Zone II region, defined under 310 CMR 40.005 as the hydrologically defined area of contribution to a public water supply wellhead. However, the site does not appear to present any potential threat to public water supply wellheads located within the delineated Zone II area.

Source: See Phase I Report by Handex, dated January 8, 1993.

Additional information is required to determine if Criterion 3 is met. Describe:

Met Not Met

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hazardous materials at or from the disposal site into surface water has occurred and that the release is upstream of a potable surface water supply intake structure or of the Criterion 4 is met if there is evidence of, or data that indicate that, a release of oil or recharge area of a municipal well(s), 4

unless there are data that indicate:

- that a hydrogeologic connection between the release of oil or hazardous materials into surface water and the recharge area does not exist, or . ____
- that concentrations of oil or hazardous materials at the surface water supply intake or the municipal well have not and are not likely to exceed State or Federal drinking water standard/guidelines, or :=
- that concentrations of oil or hazardous materials at the surface water supply intake or the municipal well(s), for which there are no drinking water stardards or guidelines, are not and are not likely to be harmful to those drinking the water. Ë

Supporting Information and Source:

body is Hop Brook, located approximately 800 feet to the north, side gradient from the site. As previously discussed, the site is located within a Zone II region; the Department has indicated that the site presents no potential threat to municipal wellheads in the Zone II. The site is not upgradient of any potable surface There is no evidence or data to indicate that there has been a release of oil or hazardous materials at or from the property into surface water. There are no surface waters on the site. The closest surface water water supply

Source: See Phase | Report by Handex, dated January 8, 1993.

Additional information is required to determine if Criterion 4 is met. Describe:

Met Not Met

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Criterion 5 is met if there is evidence of, or data that indicate that, a release of oil or hazardous materials at or from the disposal site to surface water has resulted or could result in a concentration which exceeds Ambient Water Quality Criteria for the protection of aquatic life or human health.

Supporting Information and Source:

human health. The closest down gradient surface water body is a small unnamed pond, located approximately 1,700 feet to the southeast. Ground-water is encountered between 17 and 19 feet across the There is no evidence of a release of oil or hazardous materials from the property to surface water that could result in a concentration which exceeds Ambient Water Quality criteria for the protection of aquatic life and property, and does not intercept ground surface at or in the vicinity of the site.

Source: See Phase I Report by Handex, dated January 8, 1993.

Additional information is required to determine if Criterion 5 is met. Describe:

Criterion 6 is met if there a threat of fire or explosi	Supporting Information	There is no data or evidence
Ċ.		
Met Not Met		
Met		
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is evidence of, or data to indicate that, the disposal site poses on.

n and Source:

explosion. No liquid phase hydrocarbons have been detected on the water table surface in any of the four site monitoring wells. Additionally, all underground storage tanks were removed from the property in to indicate that the former service station property poses a threat of fire or November of 1991.

See Phase I Report by Handex, dated January 8, 1993. Source:

Additional information is required to determine if Criterion 6 is met. Describe:

Not Met X Met

Criterion 7 is met if there is evidence, or data that indicate that there are or there could be air emissions at or from the disposal site which could adversely impact human or environmental receptors. ζ.

Supporting Information and Source:

Petroleum hydrocarbons detected at the disposal site are confined to the subsurface soil and ground water. The site is paved with asphalt, preventing the migration of vapors to the atmosphere.

See Phase I Report by Handex, dated January 8, 1993. <u>Source:</u>

Additional information is required to determine if Criterion 7 is met. Describe:

Met Not Met

X

Criterion 8 is met if there is evidence of, or data that indicate that, releases of oil or hazardous materials at or from the disposal site have affected or could affect the human food chain. ထ်

Supporting Information and Source:

Subsurface hydrocarbons are contained in soil and ground water. The site is asphalt paved, and ground water is encountered between 17 and 19 below the surface. Therefore, there are no migration pathways Field investigations indicate that no agricultural properties are located in the vicinity of the disposal site. to the human food chain.

Source: See Phase I Report by Handex, dated January 8, 1993.

Additional information is required to determine if Criterion 8 is met. Describe:

Met Not Met

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site may pose a significant or otherwise unacceptable rick of harm to health, safety, public welfare, or to the environment if left in its present state for several years. Note: This criterion is to be used only if none of the previous eight criteria were met, and no additional information is required. Criterion 9 is met if there are data or any other information that indicate that the disposal ത്

Supporting Information and Source:

There is no other information to indicate that the disposal site may pose a significant or unacceptable risk Presently, there is no risk of exposure to oil or hazardous materials at the site because depth to ground of harm to health, safety, public welfare or to the environment if left in its present state for several years. water is approximately 17 to 19 feet, and majority of the site is asphalt paved.

Source: See Phase I R

See Phase I Report by Handex, dated January 8, 1993.

Addit

Not Met

Met

Additional information is required to determine if Criterion 9 is met. Describe:

district school committee, local trustees of vocational education or district trustees of vocational education. This shall also include schools of the same type which are supported and maintained by individuals (private schools). This definition shall not include pottery classes) or seasonal activities (e.g., summer camps). This definition will also not include preschools or nursery schools, or facilities providing day care for young children that are located in buildings not otherwise fitting the definition of "school" as above. an increased risk of exposure to children from contamination in air, water or soil. For the purpose of classifying a site, the distance between a site and a building being used as a school shall be measured from the closest point of the school building to the nearest Criterion 10 is met if the disposal site is located within 500 feet of a school and causes known point of contamination. A <u>school building</u> or a <u>building being used as a school</u> means any facility used for the full time education of children in kindergarten and/or grades one through twelve which is under the control of a school committee, regional colleges, universities, buildings used for instruction or short duration (e.g., dance or 10

Supporting Information and Source:

There are no schools located within 500 feet of the property.

Source: See Attached Phase I Report by Handex, dated January 8, 1993.

Additional information is required to determine if Criterion 10 is met. Describe:

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MEMORANDUM

TO: File No.: 3-4005, (Former) Texaco Station 881 Edgell Road, FRAMINGHAM FROM: Robert G. Campbell, Environmental Analyst BWSC DEP NERO - Waiver Group DATE: May 5, 1993

SUBJECT: Waiver Reconnaissance

On Tuesday, May 4, 1993 at 11:00 AM, Robert G. Campbell of DEP, Waiver Unit, Site Assessment, NERO, and Edward J. Weagle, SARSS Contractor of PEER Consultants, met with Jim Wagner of Handex of New England, Inc. (Handex) at the property located at 881 Edgell Road, Framingham, hereafter referred to as the **Site**. Weather conditions while at the Site were partly sunny with temperatures in the mid-60's.

This memorandum will be based upon observations made during site reconnaissance and from data extracted from the Handex January 11, 1993 report entitled: <u>Phase I - Site Investigation</u>. This memorandum will also include information present in the Department files or at the Department's disposal. All of the referenced material will be referred to as the **report**.

Site Specifics

The site occupies approximately 10,000 square feet and is located on Edgell Road, Framingham in a mixed zone of residential and commercial properties. The site has been operated as a service station by various owners since 1960. Although currently vacant, commercial development of the site is planned.

The site rests at street level on its western perimeter (Edgell Road), but the eastern third of the property slopes sharply into an abutting mall parking lot, giving the site a perched view of the mall to the southeast and south. The nearest residential property is approximately 500 feet to the southwest, across Edgell Road. An Exxon Service Station is located directly west across the street. A Mobil Service Station lies approximately 200 feet northwest, across Edmands Road. The Nobscot Professional Building abuts to the north.

Potentially Sensitive Receptors

As reported, drinking water is supplied by the Quabbin Reservoir, approximately 40 miles west. No public or private wells are known to exist within a 1/2 mile radius. The closest surface water bodies are Hop Brook, 800 feet to the north, and a small unnamed pond approximately 1,700 feet to the southeast. The site resides within the boundary of a designated Zone II, but a review of the site file by James H. Persky, Environmental Analyst, Water Supply, NERO indicates that the site poses no threat to any public water supply.

There are no schools within 500 feet of the site.

Geology and Groundwater Flow

The subsurface soils consist of approximately 15 feet of mixed brown fine to medium sand with lenses of medium to fine gravel, these overlie a one to three-foot layer of medium to fine gravel and medium to fine sand. Auger refusal at 25 feet was experienced in one well in what was believed to be bedrock; but as no core sample was collected, depth to bedrock was not confirmed. Groundwater was encountered at depths of 15 to 17 feet and found to be flowing in an east-southeasterly direction.

Underground Storage

On November 6-7, 1991, four 4,000-gallon and one 6,000-gallon gasoline UST's were excavated. In addition, one 1,000-gallon fuel oil UST and one 550-gallon waste oil UST were removed.

Underground Utilities/Potential Migration Pathways

Municipal water and sewer utilities are located below Edgell Road just beyond the property boundary. Telephone, electric service, storm drains, and possibly, fire hydrant lines may exist, but conclusive proof of their existence was not provided.

Reportedly, the primary pathway for soluble phase hydrocarbon migration appears to be groundwater at 15 to 17 foot depths. No intersection points of the groundwater with the surface were observed.

A secondary pathway for migration is believed to be volatilization from groundwater into the soil vadose zone, as attested by vapor recovery activities. Most of the site is under asphalt pavement, and communication of vapors from the vadose zone to air seems to be nominal. However, as several unpaved sections exist on the site, and continued deterioration of the pavement can result from the effects of surface weathering, then pathways for vapor migration may develop.

Subsurface Investigations

Organic vapor screening was performed during the installation of wells MW-2 and MW-4 on November 19-20, 1992. Organic vapors were not detected during the advancement of MW-3 boring.

Split-spoon samples of soil were collected during the installation of the three monitoring wells (MW-2, MW-3, and MW-4) on November 19-20, 1992. Method 602, 624, and 418.1 analyses of these samples showed the presence of xylene in one well (MW-2) at 1.1 ppb. TPH's were detected at levels ranging from <25 to 130 ppm.

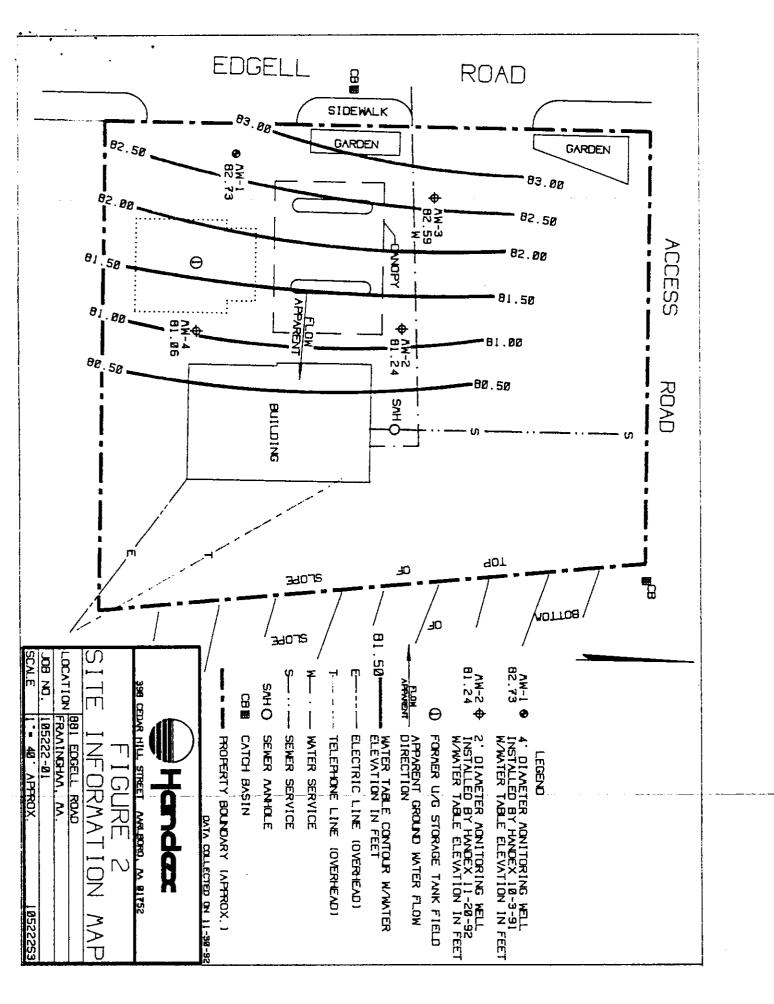
Method 602 analysis of groundwater samples, collected on November 30, 1992, from four monitoring wells showed total BTEX concentrations ranging from no detection to 6,420 ppb. Xylene was the most significant contributor at 5200 ppb. MTBE concentrations from the same wells were detected at levels from 2.9 to 370 ppb.

FINDINGS - SUMMARY - CONCLUSIONS

Upon arrival, Mr. Wagner provided access to all four groundwater monitoring wells. Each well was secured with a steel padlock and a plastic tamper-proof tie. Each of the monitoring wells was screened for the presence of volatile organic compounds (VOC's) within the well casing head space with a calibrated HNu photoionization detector. Measurements ranged from no detection to 20 ppm, but the instrument exhibited erratic behavior so that some of the readings may be in error. Wells were gauged with an electronic interface probe and checked for floating product. No free product was observed in any of the wells.

During the site inspection, two additional subsurface access points were observed. When asked about these monitoring points, Mr. Wagner indicated that they were installed in anticipation of waiver approval and would be used to implement interim measures. These measures would include an air sparging and vapor recovery system. The excavation sites of the former UST's were back-filled but unpaved. The service bay door was unsecured, allowing free access to the service bay. Examination of the interior of the service bays showed an oil-water separator trap containing foul-smelling water; this water was discharged through a baffle into a town sewer; a sheen was detected on the surface of this water, but whether the sheen was hydrocarbon product or a biological residue could not be determined. A floor drain in the service bay was uncovered and displayed heavy staining, and discharged into a town sewer. Debris, including several metal and plastic containers of solvents and/or oil were ubiquitous in the service bay. Two hydraulic lifts were observed and appeared intact.

Conditions at the site were not inconsistent with the Phase I Report; however, as conditions of approval, decontamination of the interior of the service bay must include proper disposal of hazardous waste/oil containers, the draining and purging of the oil/water separator, proper disposal of general debris inside the service bay, and the installation of a working lock for securing the service bay door. If soil venting or air-sparging systems are installed for remediation purposes, then the excavation sites should be paved over to prevent short-circuiting for either of these remedial measures. No other complications were observed which would preclude the processing of this Waiver Application.



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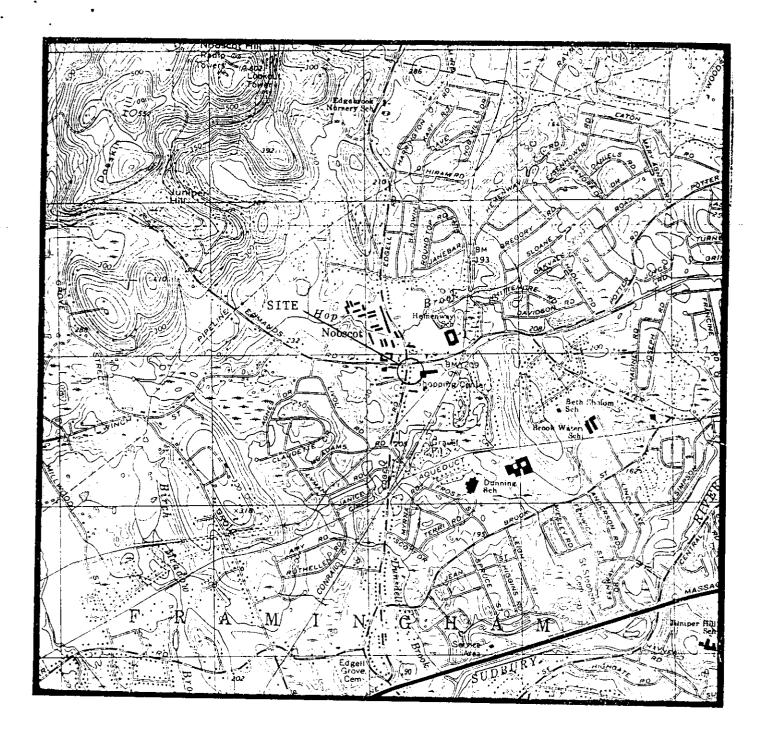
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398.02	ELAR HILL STREET ANRLEORD, M 81752
	FIGURE 1
	LOCUS MAP
LOCATION	BB1 EDGELL ROAD FRAAINGHAA. Αλ
JOB NO.	105222-01
SCALE	1" = 2200 APPROX.



Commonwealth of Massachusetts

Executive Office of Environmental Affairs **Department of Environmental Protection** Metro Boston/Northeast Regional Office

William F. Weid Governor Daniel S. Greenbaum Commissioner

MEMORANDUM

April 2, 1993

FROM	:	Ida Babroudi, Waiver Unit, Site Assessment, NERO James H. Persky, Environmental Analyst, Water Supply, NERO Chester Masel, Chief, Water Supply, NERO
SUBJEC	T :	WAIVER REVIEWTexaco Station, 881 Edgell Road, Framingham, MA (Case No. 3-4005)

The Division of Water Supply has reviewed the available information on the subject site. The site is along the boundary of the Zone II for the Town of Sudbury's Raymond Road aquifer, which includes five of Sudbury's eight active wells. This Zone II is about to be approved by the Division of Water Supply. The nearest of Sudbury's wells is about 10,000 feet from the site. There is also a noncommunity public supply well at the Davitt Children Center at 1301 Edgell Road in Framingham, near the Sudbury town line.

Note that the soil sample collected during drilling of monitoring well MW-1 contained 130 ppm of TPH. This is considered to be the upgradient well.

This site does not pose a threat to any public water supply.

cc: Robert Campbell, DEP, Waiver Unit

WAIVER RECONNAISBANCE CHECKLIBT

GHAM (FORMER) TEXACO STATIGATIVER NUMBER 605=) TOWNI/SITE: KAMIN Juste STAFF PERSON

- [2] WALKOVER/CONSULTANT INPUT Walk the site, noting pertinent features, topography, locations of source areas, monitoring wells. Try to integrate written (report) information with visual observation, to (1) get a better understanding of site/contaminant conditions, and potential pollutant receptors, and (2) to confirm that site conditions are not inconsistent with what has been presented in report submittals. Question consultant, where necessary to resolve old or newly discovered issues. REMEMBER WAIVER OBJECTIVES: THE SITE DOES <u>NOT</u> NEED TO BE FULLY CHARACTERIZED AT THIS POINT IN THE PROCESS; WE NEED JUST ENOUGH INFORMATION TO CLASSIFY SITE, AND FEEL REASONABLY CERTAIN THAT THE APPLICANT/CONSULTANT APPEAR TO BE ON THE "RIGHT TRACK".

Where appropriate, screen headspace in key g.w. monitoring wells with PID meter. The purpose of this action is to see if headspace results seem to be consistent with reported information. Key problem areas: Positive headspace reading in well where VOCs were not reported (perhaps leading edge of plume), high readings (hundreds of ppm v/v) or strong odors indicating floating product (where none was reported).

2.	Was consultant present during inspection?	ло
ь.	Were site conditions INCONSISTENT with submitted reports? (NO) (If yes, explain fully in site reconnaissance memo)	YES
PROB.	LEHS - Don't spend a lot of time looking, but note if:	
۵.	Unreported drums with unidentified origin or contents?	Ø
Ь.	Contaminated soil stockpiles present more than 4 months?	69
c.	Discharge pipes of unknown origin/exhibiting contamination? yes (IF YES, NOTIFY DEP SUPERVISOR UPON RETURN TO OFFICE)	6
đ.	Surficial and/or other contamination not addressed in submitted reports?	ло
e. '	Vent pipes indicating unidentified/unreported UST?	ĸ
ſ.	Does there appear to be any schools near (<500 ft) the site? yes	6
	· · · · · · · · · · · · · · · · · · ·	onej

[2]

[3]	VOC B	- Is VOC contamination present/suspected? no
	Α,	Approx distance to nearest down-gradient residential/school/day-care building: <u>N 500</u> ft (circle type of structure, above)
	ь.	If less than 100 feet from known/potential g.w. contaminant plume, indicate presumed depth to g.w. at this structure, based upon information in report submittals and area topography:
	c.	Approx conc. of g.w. VOC in plume nearest this structure: NA ug/1
	d.	SURFACE / DEVELORMENT BETWEEN PLUME & THIS STRUCTURE N/A
[4]	FLOR	TING FRODUCT - IS floating product present?
•	Δ.	Greatest thickness recorded: ATA ft
	ь.	Approx depth to groundwater:ft
	. c.	Approx distance to nearest underground utility(les): N20ft
		type: 🖌 sanitary/combined sewer 🖌 storm drain 🖌 telephone/electrical
		other:
	đ.	If product plume within 50 feet of underground utilities, is the invert elevation of pipes/conduits at elevation of groundwater table/interface?
		no gan't tell yes
		If yes or don't know, did consultant pull manhole covers
·		in potentially impacted area?
		Did this investigation indicate the presence of product, staining, odors, or elevated organic vapor measurements?
	f.	Is there a surface water body within 100 feet of site?
	· •	If yes, is there evidence of product breakout7 yes no
NOTES	:: A	Variety of Constainers of oil/solocato were discovered the service bay. And oil water separator pet fisplayed oheen, nature unknown. Debus crenywhere. Service
	M	change automation and Debres Debres Contractions
	A	onen, naure unariouri. en engenere. derne
	Da	r doors were unsecured.
	V	

SCANNED



SECTION VII

ACCESS AGREEMENT

A. Property Owner Information:

Framingham	(STREET) MA	01701
CITY/TOWN)	(STATE)	(ZIP CODE)
elephone Number:	508-877-4159	
ocation of Property:		
Framinoham	(STREET) MA	01701
CITY/TOWN)	(STATE)	(ZIP CODE)
ie ID Number: 3-400	5	

B. ACCESS AGREEMENT:

I agree to allow access I	o the property located at _	881 Edgell Road	
,		(STREET)	
Framingham	MA	01701	
(CITY/TOWN)	(STATE)	(ZIP CODE)	

by ____Robert Gulick of Star Enterprise ___ ___and his agents, (APPLICANT)

the Department of Environmental Protection and its agents and employees for the purpose of conducting a remedial response action.

Ben Renzella (NAME OF PROPERTY OWNER)

(SIGNATURE OF PROPERTY OWNER) (DATE)

Z/Z.9