

Mr. Larry Scangas Massachusetts Department of Environmental Protection Central Regional Office 75 Grove Street Worcester, MA 01605

December 12, 1994 DEC 1 2 1994

Re:

IRA Completion Statement Bolton Highway Department 12 Forbush Mill Road Bolton, MA 01740 RTN #2-10351 #2-10303

Dear Mr. Scangas:

On behalf of the Town of Bolton, Massachusetts, attached please find completed BWSC-006, Immediate Response Action (IRA) Completion Statement Form for the above referenced site. The following serves as documentation of the subject IRA activities:

Notification of Release/Verbal IRA Approval

On June 22, 1994, personnel from Geologic Services Corporation (GSC) performed hand auger borings in the vicinity of three (3) inactive gasoline underground storage tanks (USTs). Field screening of soil using a photoionization detector (PID) confirmed the presence of volatile organic compounds (VOC's) in soil in the vicinity of UST's at concentrations ranging from 149 to 997 parts per million (ppm). Pursuant to 310 CMR 40.0313, these PID readings represented a condition requiring notification to the DEP within 72 hours, and the implementation of an Immediate Response Action pursuant to 310 CMR 40.0412(2).

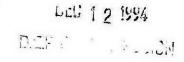
On June 23, 1994 GSC, on behalf of the Town of Bolton, verbally notified the DEP of conditions observed during the soil testing on June 22, 1994, at which time DEP verbally approved an Immediate Response Action Plan which consisted of the removal of the on-site USTs and up to 100 cubic yards of potentially petroleum affected soils. At this time, the DEP assigned RTN 2-10351 to the site.

Implementation of Verbally Approved IRA

On July 19, 1994, two (2) 1,000 gallon steel gasoline USTs and one (1) 2,500 gallon double wall fiberglass UST were removed from the site. During and after the UST removal soil samples of excevated and in-situ soil were field screened using a PID. Selected samples were submitted to a Massachusetts certified laboratory for testing. Soil sample locations are included on Plate 1 - Soil Sample Locations (attached). Results of the field screening and laboratory analysis are summarized on Table 1. Complete laboratory analytical results are also attached.

TABLE 1

Soil Sample Screening and Laboratory Analytical Results Underground Storage Tank Removal Bolton Highway Department 12 Forbush Mill Road



12 Forbush Mill Road Bolton, Massachusetts July 19, 1994

Sample ID	PID (ppm)	Benzene (ug/kg)	Toluene (ug/kg)	Ethyl- benzene (ug/kg)	Xylenes (ug/kg)	TPH (mg/kg)	Lead (mg/kg)
T-1 South	0.9	ND	ND	ND	2.75	ND	11.6
T-1 Bottom	0.1	ND	ND	ND	ND	ND	10.9
T-2 North	ND	ND	ND	ND	ND	36.9	17.3
T-2 Bottom	11	ND	ND	ND	ND	12.4	11.9
T-1/T-2 East	ND	ND	ND	ND	ND	ND	13.7
T-1/T-2 West	ND	ND	ND	ND	ND	ND	10.7
T-3 North**	1,203	ND	ND	61.6	2,990	10.5	9.12
T-3 South	46	ND	ND	ND	ND	ND	10.1
T-3 East	108	ND	ND	ND	ND	ND	7.39
T-3 West	1,052	806	86,000	33,100	250,000	12.5	11.8
T-3 Bottom**	1,092	1,880	22,100	8,350	81,100	ND	34.6
MADEP Standards*	NA	10,000	90,000	80,000	500,000	500	300

Notes: ND - not detected at or above method detection limit

NA - not applicable

TPH - total petroleum hydrocarbons

ug/kg - parts per billion (ppb) mg/kg - parts per million (ppm)

Samples analyzed for VOC's via EPA Method 8240.

Method 1 standards for category S-1/GW-1 soil

** - 2-Butanone or methyl ethyl ketone (MEK) also detected in sample

(6,490 and 8,990 ppb respectively)

The two 1,000 gallon steel tanks (T-1 and T-2 as shown on Plate 1) were pitted but showed no apparent points of leakage. A limited amount of petroleum affected soil was removed from this excavation and stockpiled. The 2,500 gallon fiberglass tank (T-3 as shown on Plate 2) appeared to be in good condition and also showed no apparent points of leakage. Apparent groundwater was encountered during the fiberglass tank excavation, and a petroleum film was detected on the groundwater. Pursuant to 310 CMR 40.0310, on the afternoon of July 19, 1994, Bill Phillips of DEP was notified of the observation of a petroleum film on the groundwater. At that time, Bill Phillips granted verbal approval to remove petroleum from the surface of the groundwater. However, due to subsequent slumping of soil into the excavation, no removal of the petroleum film was undertaken at that time.

A total of approximately 80 cubic yards of petroleum affected soil were excavated from both UST areas. Both excavations were backfilled with sand provided by the Bolton Highway Department. The two steel USTs were inerted and removed from the site by Petroleum Engineering, Incorporated and delivered to James Grant & Company of Readville, MA, approved tank yard #03501 for disposal. The fiberglass tank was inerted and left above ground, on site.

Recycling of Petroleum Affected Soils

On November 3 and 4, 1994, 132.05 tons of gasoline affected soil generated during the UST removal activities were transported to American Reclamation Corporation in Charlton, Massachusetts to be recycled as aggregate material for asphalt products. A copy of the Bill of Lading used for transportation of this soil (previously submitted to DEP) is attached.

Findings and Conclusions

Personnel from GSC supervised and documented the removal of three (3) gasoline USTs at the subject site. During these activities, 132.05 tons of potentially gasoline-affected soils were excavated and stockpiled on site in order to remove the USTs.

In-situ soil samples collected from the UST excavations were tested for the presence of volatile organic compounds in the field (via PID screening) and using laboratory analysis. Results of soil analytical data indicate that concentrations of adsorbed phase gasoline constituents (with the exception of 2-butanone) were all below applicable DEP standards as outlined in 310 CMR 40.0975(6)(c). The highest concentrations of VOCs were detected in soil collected from the UST *T-3* excavation.

Apparent groundwater observed briefly during UST removal activities was observed to have a petroleum sheen. Due to subsequent slumping of soil in the excavation, removal of the sheen-bearing water was not possible at that time.

Based on the results of activities during these IRA activities it is the opinion of GSC that the removal of the subject USTs has eliminated the potential for future release(s) of gasoline to the subsurface of the subject site and, as such, any imminent hazard posed by the continued presence and use of these USTs has been addressed. Therefore, the subject IRA, as approved, is complete. Additional assessment activities are currently underway to assess the impact to groundwater pursuant to 310 CMR 40.0480.

The aforementioned steps which have been taken and the activities which are to be taken as proposed Release Abatement Measures will, in GSC's opinion, address actual and likely concerns of potential exposures caused by current and foreseeable conditions that might occur in an appropriately short future period of time.

Should you have any questions regarding this submittal, please do not hesitate to contact us.

Steven L. Dean, P.G., LSP

Vice President

Very Truly Yours,

Geologic Services Corporation

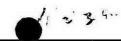
Bruce C. Ross Project Manger

CC:

Harold Brown, Bolton Highway Department

Bolton Board of Health Bolton Board of Selectmen

BCR/DLP/SLD/sml ref# 940603.24 BH 12-12-94





Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup LS

BWSC-006

IMMEDIATE RESPONSE ACTION (IRA) **COMPLETION STATEMENT (pursuant to 310 CMR 40.0427)**

12-13-99		Release Tracking Number
	2 -	10351 -

A. RELEASE OR THREAT OF RELEASE (TOR) LO	
Release Name (optional): Bolton Highway Der	
	Location Aid:
	Zip Code:
Additional Release Tracking Numbers that this IRA Addressed:	
77 AND ANDREW 27 TAXABLE STATES	
B. PERSON WHO CONDUCTED THE IRA:	
Name of Organization: Bolton Highway Depar	rtment
	Title: Highway Superintendent
Street: 12 Forbush Mill Road	
	State:MA
Telephone: 508 - 779 - 6402 Ext.	
C. RELATIONSHIP TO RELEASE OR TOR OF PEI	RSON WHO CONDUCTED THE IRA:
(check one/specify)	
RP Specify (circle one): Owner Operator Generator	
X PRP Specify (circle one): Owner Operator Generator	or Transporter Other PRP;
Fiduciary/Secured Lender	
Agency/Public Utility on a Right of Way	
Other Person:	5 0005
D. IRA PLAN INFORMATION:	
Communication of IRA Plan to DEP (check all that apply/specify):	
	CONTACT:
	y <u>Scan</u> gas
//	
E. SITE CONDITIONS THAT WARRANTED IRA:	
Media/Receptors Affected (circle all that apply): Air Groundw	vate Surface Water Sediments Soil Storm Drain Private Well
	chool Unknown Other:
IRA Trigger (from CMR 40.0412) (check all that apply):	
2 HOUR CONDITION	SUBSTANTIAL RELEASE MIGRATION
Sudden Release Discha underc	arge of separate phase OHM to surface waters, subsurface structures, or
L. Oil Shager.	ground utilities/conduits
The location between the first trade	se to soil/vadose zone jeopardizing groundwater
☐ Imminent Hazard ☐ Releas	se to groundwater which migrates more than 200 feet per year
	se that has impacted or been detected in, or within 1 year may impact or
	d in, one or more of the following:
The state of the s	/Private Drinking Water Supply Well
Public	Reservoir/Surface Water Supply
Downer Downer	gradient Receptors (specify):
Subsurface NAPL Vapor	gradient Receptors (specify): Discharge into School Buildings/Residences
☑ UST Release □ Vapor	Preparation into action original sylvestactices
Release to Groundwater near Water Supply	
Release to Groundwater near School or Residence	
Threat of UST Release	
OTHER CONDITIONS:	
- · · - · · · · · · · · · · · · · · · ·	



Massachusetts Department of Environmental Protection

Bureau of Waste Site Cleanup

BWSC-006

Release Tracking Number:

10351

2

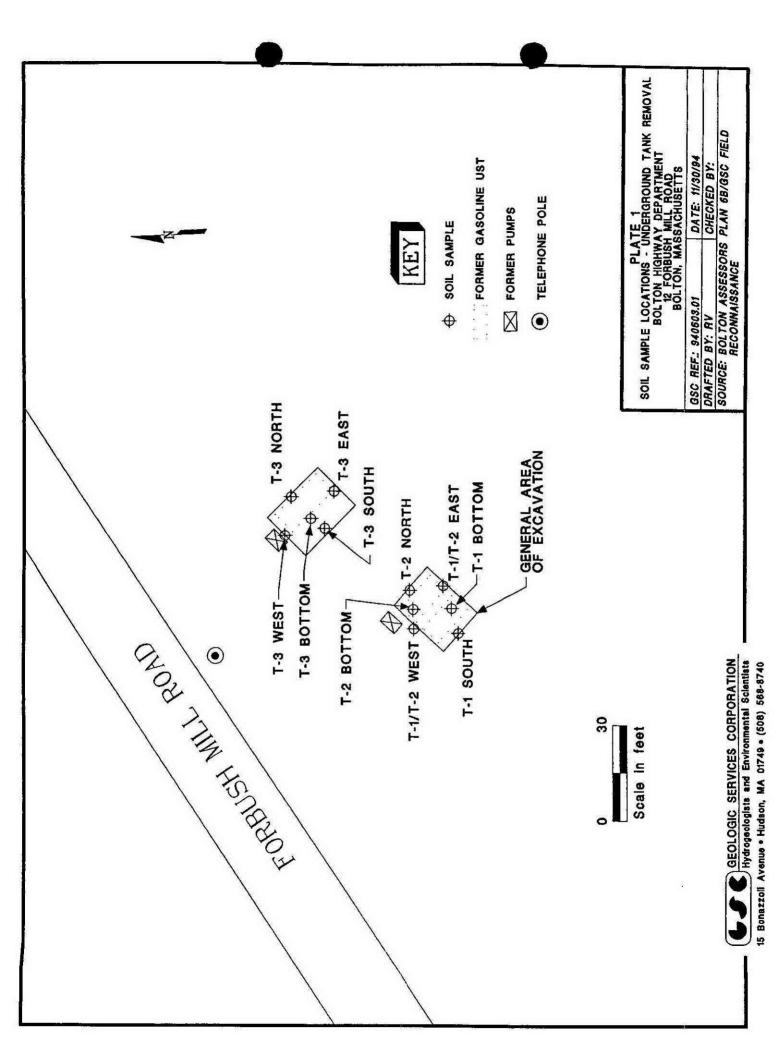
IMMEDIATE RESPONSE ACTION (IRA) COMPLETION STATEMENT (pursuant to 310 CMR 40.0427)

F. DESCRIPTION OF IRA: Provide details on attachments, as warranted. Date IRA Work Completed: 11 / 4 / 94 Date IRA Work Initiated: 7 / 19 / 94 IRA SUMMARY (check all that apply): OTHER RESPONSE ACTIONS: REMOVAL OF REMEDIATION WASTE: Contaminated Water **Drainage Controls** Berms/Dikes/Impoundments Contaminated Soils (check all that apply): Temporary Covers/Caps Excavate Waste/Product Recovery Store Temporary Evacuation/Relocation of Residents Treat **Temporary Water Supplies** Re-use Vent System |X| Recycle Actual Volume: 132.05 tonsubic yards (approx) **Groundwater Treatment Systems** Landfill Actual Volume: _____ cubic yards Other: _ X Drums/Tanks/Containers NAPL ASSESSMENT ONLY Other: _ G. FINDINGS AND CONCLUSIONS: Is an RAO attached? X No Yes Class B Class A If yes, indicate RAO Type: Is this release location adequately regulated by the Department under another program pursuant to 310 CMR 40.0110-114? 🐰 No 🗌 Yes If yes, specify program: Attach the IRA Completion Report as specified in 310 CMR 40.0427 including, but not limited to, the following documents: 1. All investigatory and monitoring data obtained during the implementation of the Immediate Response Action. 2. A succinct statement on the findings and conclusions of the Immediate Response Action. Details and documentation on the management of any Remediation Waste handled at or transported from the site as part of the Immediate Response Action. 4. A description of any ongoing activities related to the Immediate Response Action that will be conducted at the site, including monitoring activities, security measures and the maintenance of fences, caps, and other passive systems. H. LSP OPINION: Geologic Services Corporation Name of Organization: Steven L. Dean LSP Name: Telephone: 508 _ - 568 - 8740 Ext. I attest that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this attestation, and in my professional judgment, the response action(s) that is the subject of this submittal provisions of M.G.L. c. 21A, §§ 1919.91,309 CMR, M.G.L. c. 21E, 310 CMR 40.0000, and all other laws, regular permits, and approvals applicable to such response action(s). I am aware that significant penalties may result, including the interest of the provision of the p and imprisonment, if I wilfully submit information which I know to be false, inaccurate or incomplete. STEVEN Signature: DEAN Date: License Number I. CERTIFICATION OF PERSON WHO CONDUCTED THE IRA: I certify under 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 of Person (print):

Date: 18 18 94



Page 1	10)	TIKON C	ORP. REPORT	Work Order # 94-07-347
Received:	: 07/20/94		08/03/94 10:55:40	
	GEOLOGIC SERVICES CORPORA 15 BONAZOLI AVENUE HUDSON, MA. 01749 (508)568-8740 FAX 568-931		PREPARED TOXIKON CORPORATION BY 225 WILDWOOD AVE WOBURN, MA 01801	CERTIFIED BY
ATTEN	JAY BILLINGS		ATTEN PAUL LEZBERG PHONE (617)933-6903	CONTACT MARKETING
COMPANY	GEOLOGIC SAMPLE GEOLOGIC SERVICES CORPORA 15 BONAZOLI AVENUE	TION	MA CERT # M-MAO64: TRACE METALS, CHLORINE, Ca, TOTAL ALK., TDS, pH	***************************************
	HUDSON, MA. 01749		DEMAND. O&G, PHENOLICS, PCBs . CT FL HRS E87143, NJ DEP 59538, NC D	DHS #PH-0563, NY #10778
TAKEN	940603 BOLTON HIGHWAY 7/19/94			reser Dalmer
	SOIL		CERT # M-MA064	
P.O. # INVOICE	under separate cover			
MODEL AND DESCRIPTIONS	E IDENTIFICATION	00/0	TEST CODES and NAMES us	ed on this workorder
01 T-1 S			PURGEABLE ORGANICS VOA	
02 T-1 B	· ·	4	EXTRACTION GC PET SOIL	
03 T-2 N	-0000 -0000		PETROLEUM SCAN BY GC METALS, TOTAL EXT., SOIL	
05 T-1/T	a man deservation to	PB	LEAD	
06 T-1/T	HADRY CONTROL TO A WARRANT BARRAY	<u> </u>	LERO	
07 T-3 N				
08 T-3 S				
09 T-3 E				
10 T-3 W				

11 T-3 BOT

TOXIKON CORP.

REPORT

Work Order # 94-07-347

Received: 07/20/94

Results by Sample

SAMPLE ID T-1 SOUTH

FRACTION <u>O1A</u> TEST CODE <u>8240</u> NAME <u>PURGEABLE ORGANICS VOA</u>

Date & Time Collected <u>07/19/94 08:45:00</u> Category <u>SOIL</u>

PURGEABLE ORGANICS VOA RESULT LIMIT RESULT LIMIT Acrolein 100 trans-1,3-Dichloropropene ND ND 2.0 Acrylonitride 10 ND Trichloroethene ND 2.0 2.0 Chloromethane ND Dibromochloromethane ND 2.0 Bromomethane ND 2.0 1,1,2-Trichloroethane ND 2.0 10 2.0 Vinyl Chloride ND Benzene ND Chloroethane ND 2.0 cis-1,3-Dichloropropene 2.0 ND Methylene Chloride ND 10 2-Chloroethylvinylether ND 2.0 Acetone 50 Bromoform ND 2.0 ND Carbon Disulfide ND 2.0 2-Hexanone 4.0 ND 1,1-Dichloroethene ND 2.0 4-Methyl-2-pentanone ND 4.0 Trichlorofluoromethane ND 2.0 Tetrachloroethene ND 2.0 1,1-Dichloroethane ND 2.0 1,1,2,2-Tetrachloroethane 2,0 ND Total 1,2-Dichloroethene 2.0 ND Toluene ND 2.0 Chloroform ND 2.0 Chlorobenzene ND 2.0 1,2-Dichloroethane 2.0 ND Ethyl Benzene ND 2.0 2-Butanone ND 10 Styrene 2.0 ND 1,1,1-Trichloroethane 2.0 ND Total Xylenes 2.0 2.75 Carbon Tetrachloride 2.0 ND 1,2-Dichlorobenzene 2.0 ND Vinyl Acetate ND 2.0 1,3-Dichlorobenzene 2.0 ND **Bromodichloromethane** 2.0 ND 1,4-Dichlorobenzene 2.0 ND 1,2-Dichloropropane ND 2.0 Notes and Definitions for this Report: DATE RUN: 07/26/94 ANALYST: PAC INSTRUMENT: HP-V1 DIL. FACTOR: COMMENTS: UNITS: ug/Kg ND = not detected at detection limit

TOXIKON CORP.

REPORT

Work Order # 94-07-347

Received: 07/20/94

Results by Sample

SAMPLE ID T-1 SOUTH

FRACTION <u>O1A</u> FEST CODE <u>GC PET</u> NAME <u>PETROLEUM SCAN BY GC</u>
Date & Time Collected <u>O7/19/94 08:45:00</u> Category <u>SOIL</u>

PARAMETER	RESULT
JP-4	ND
Gasoline	ND
Kerosene	ND
Diesel	ND
No. 2 Fuel Oil	ND
No. 4 Fuel Oil	ND
No. 6 Fuel Oil	ND ND
Petroleum Contaminant	ND
Total Petro. Hydrocarbons	ND ND
DETECTION LIMIT	
Water Matrix	*
Solid Matrix	10.0 mg/Kg
EXTRACTED <u>08/01/</u> DATE RUN <u>08/01/</u> ANALYST <u>KA</u>	94
N.O.S. = Not Ot ND = Compound(s above detection	
Comments	

Page 5 Received: 07/20/94	TOXIKON CORP. Results b	REPORT Dy Sample	Work Order # 94-07-347
SAMPLE ID T-1 BOT		Practions: A Collected 07/19/9	24 08:42:00 Category <u>SOIL</u>
PB 10.9 mg/Kg DL=1.00			

TOXIKON CORP.

REPORT

Work Order # 94-07-347

Received: 07/20/94

Results by Sample

SAMPLE ID T-1 BOT

FRACTION <u>02A</u> TEST CODE <u>8240</u> NAME <u>PURGEABLE ORGANICS VOA</u>

Date & Time Collected <u>07/19/94 08:42:00</u> Category <u>SOIL</u>

	RESULT	LIMIT		RESULT LI	MIT			
Acrolein	ND	100	trans-1,3-Dichloropropene	ND	2.0			
Acrylonitride	ND	10	Trichloroethene	ND	2.0			
Chloromethane	ND	2.0	Dibromochloromethane	ND	2.0			
Bromomethane	ND	2.0	1,1,2-Trichloroethane	ND	2.0			
Vinyl Chloride	ND	10	Benzene	ND	2.0			
Chloroethane	ND	2.0	cis-1,3-Dichloropropene	ND	2,0			
Methylene Chloride	ND	10	2-Chloroethylvinylether	ND	2.0			
Acetone	ND	50	Bromoform	ND	2.0			
Carbon Disulfide	ND	2.0	2-Hexanone	ND	4.0			
1,1-Dichloroethene	ND	2.0	4-Methyl-2-pentanone	ND	4.0			
Trichlorofluoromethane	ND	2.0	Tetrachloroethene	ND	2.0			
1,1-Dichloroethane	, ND	2.0	1,1,2,2-Tetrachloroethane	ND	2.0			
Total 1,2-Dichloroethene	ND	2.0	Toluene	ND	2.0			
Chloroform	ND	2.0	Chlorobenzene	ND	2.0			
1,2-Dichloroethane	ND	2.0	Ethyl Benzene	ND	2.0			
2-Butanone	ND	10	Styrene	ND	2.0			
1,1,1-Trichloroethane	ND	2.0	Total Xylenes	ND	2.0			
Carbon Tetrachloride	ND	2.0	1,2-Dichlorobenzene	ND	2.0			
Vinyl Acetate	ND	2.0	1,3-Dichlorobenzene	ND	2.0			
Bromodichloromethane	ND	2.0	1,4-Dichlorobenzene	ND	2.0			
1,2-Dichloropropane	ND	2.0						
Notes	and Definition	ons for	this Report:					
	DATE RUN:	07/27/	<u> 194</u>					
	ANALYST:	PAC						
	INSTRUMENT:	HP-	<u>-v1</u>					
	DIL. FACTOR: COMMENTS:		<u>1</u>					
	UNITS:	ug/Kg	7 / 1000	IV				

TOXIKON CORP.

REPORT

Work Order # 94-07-347

Received: 07/20/94

Results by Sample

SAMPLE ID T-1 BOT

FRACTION <u>O2A</u> TEST CODE <u>GC PET</u> NAME <u>PETROLEUM SCAN BY GC</u>

Date & Time Collected <u>O7/19/94 08:42:00</u> Category <u>SOIL</u>

PARAMETER	RESULT
JP-4	ND
Gasoline	. ND
Kerosene	ND ND
Diesel	ND
No. 2 Fuel Oil	ND
No. 4 Fuel Oil	ND ND
No. 6 Fuel Oil	<u>ND</u>
Petroleum Contaminant	<u>ND</u>
Total Petro. Hydrocarbons	<u>ND</u>
DETECTION LIMIT	
Water Matrix	*
Solid Matrix	10.0 mg/Kg
Notes and Definition	ons for this Report:
EXTRACTED 08/01/94	
DATE RUN 08/01/94	
ANALYST KAK	
INSTRUMENT HP #	<u>,</u>
N.O.S. = Not Other	wise Specified
ND = Compound(s) r	not detected
above detection li	imit
Comments	

TOXIKON CORP.

REPORT

Work Order # 94-07-347

Received: 07/20/94

Results by Sample

SAMPLE ID T-2 NORTH	SAMPLE # 03 FRACTIONS: A
	Date & Time Collected 07/19/94 09:29:00 Category SOIL
PB 17.3	
mg/Kg DL=1.00	

TOXIKON CORP.

REPORT

Work Order # 94-07-347

Received: 07/20/94

Results by Sample

SAMPLE ID T-2 NORTH

FRACTION 03A TEST CODE 8240 NAME PURGEABLE ORGANICS VOA

Date & Time Collected 07/19/94 09:29:00 Category SOIL

	EABLE OR				
	RESULT	LIMIT		RESULT LI	MIT
crolein	ND	100	trans-1,3-Dichloropropene	ND	2,0
crylonitride	ND	10	Trichloroethene	ND	2.0
chloromethane	ND	2.0	Dibromochloromethane	ND	2.0
romomethane	ND	2.0	1,1,2-Trichloroethane	ND	2.0
inyl Chloride	ND	10	Benzene	ND	2.0
chloroethane	ND	2.0	cis-1,3-Dichloropropene	ND	2.0
ethylene Chloride	ND	10	2-Chloroethylvinylether	ND	2.0
cetone	ND	50	Bromoform	ND	2.0
Carbon Disulfide	ND	2.0	2-Hexanone	ND	4.0
1,1-Dichloroethene	ND	2.0	4-Methyl-2-pentanone	ND	4.0
Trichlorofluoromethane	<u>ND</u>	2.0	Tetrachloroethene	ND	2.0
1,1-Dichloroethane	ND	2.0	1,1,2,2-Tetrachloroethane	ND	2.0
Total 1,2-Dichloroethene	ND	2.0	Toluene	ND	2.0
Chloroform	ND	2.0	Chlorobenzene	ND	2.0
1,2-Dichloroethane	<u>ND</u>	2.0	Ethyl Benzene	ND	2.
2-Butanone	ND	10	Styrene	ND	2.0
1,1,1-Trichloroethane	ND	2.0	Total Xylenes	ND	2.0
Carbon Tetrachloride	ND	2.0	1,2-Dichlorobenzene	ND	2.0
Vinyl Acetate	ND	2.0	1,3-Dichtorobenzene	ND	2.0
Bromodichloromethane	ND	2.0	1,4-Dichlorobenzene	ND ND	2.0
1,2-Dichloropropane	ND ND	2.0			
Not	es and Definiti	ons for	this Report:		
	DATE RUN:	07/26	/94		
	ANALYST:	PAC			
	INSTRUMENT:	HP-	-V1		
	DIL. FACTOR:	Maria de la composición dela composición de la composición de la composición dela composición dela composición dela composición de la composición de la composición dela composición de la composición dela	1		
	COMMENTS:	12 10			
	UNITS:	ug/Kg		- New 199	

Page	0

TOXIKON CORP.

REPORT

Work Order # 94-07-347

'Received: 07/20/94

Results by Sample

SAMPLE ID T-2 NORTH

FRACTION 03A TEST CODE GC PET NAME PETROLEUM SCAN BY GC
Date & Time Collected 07/19/94 09:29:00 Category SOIL

PARAMETER	RESULT
JP-4	ND
Gasoline	ND
Kerosene	ND
Diesel	ND
No. 2 Fuel Oil	ND
No. 4 Fuel Oil	ND
No. 6 Fuel Oil	ND
Petroleum Contaminant	36.9 mg/Kg
Total Petro. Hydrocarbons	36.9 mg/Kg
DETECTION LIMIT	
Water Matrix	*
Solid Matrix	_10.0 mg/Kg
Notes and Definiti	ons for this Report:
EXTRACTED 08/01/9	04
DATE RUN 08/01/94	
ANALYST KAK	22.
INSTRUMENT HP	<u>#5</u>
N.O.S. = Not Othe	erwise Specified
ND = Compound(s)	not detected
above detection (imit
	c18-c3

TOXIKON CORP.

REPORT

Work Order # 94-07-347

Received: 07/20/94

Results by Sample

SAMPLE ID T-2 BOT

FRACTION <u>O4A</u> TEST CODE <u>8240</u> NAME <u>PURGEABLE ORGANICS VOA</u>

Date & Time Collected <u>07/19/94 09:35:00</u> Category <u>SOIL</u>

	RESULT	LIMIT		DCelli T 13	WIT
	NEGOE!	C2(12)		RESULT LI	MII
Acrolein	<u>ND</u>	_100	trans-1,3-Dichloropropene	ND	2.
Acrylonitride	ND	10	Trichloroethene	ND	2.
Chloromethane	ND	2.0	Dibromochloromethane	ND	2.
Bromomethane	ND	_2.0	1,1,2-Trichloroethane	ND	2.
Vinyl Chloride	ND	10	Benzene	ND	2.
Chloroethane	ND	2.0	cis-1,3-Dichloropropene	ND	2.
Methylene Chloride	ND	10	2-Chloroethylvinylether	ND	2.
Acetone	ND	50	Bromoform	ND	2.
Carbon Disulfide	ND	2.0	2-Hexanone	ND	4.
1,1-Dichloroethene	ND	2.0	4-Methyl-2-pentanone	ND	4.
Trichlorofluoromethane	ND	2.0	Tetrachloroethene	ND	2.
1,1-Dichloroethane	ND	2.0	1,1,2,2-Tetrachloroethane	ND	2.
Total 1,2-Dichloroethene	ND	_2.0	Toluene	ND	2.
Chloroform	ND	2.0	Chlorobenzene	ND	2.
1,2-Dichloroethane	ND	2.0	Ethyl Benzene	ND	2.
2-Butanone	ND	10	Styrene	ND	2.
1,1,1-Trichloroethane	ND	2.0	Total Xylenes	ND	2.
Carbon Tetrachloride	ND	_2.0	1,2-Dichlorobenzene	ND	2.
Vinyl Acetate	ND	_2.0	1,3-Dichlorobenzene	ND ND	2.
BromodichLoromethane	ND.	2.0	1,4-Dichlorobenzene	ND	2.
1,2-Dichloropropane	ND	2.0	1,100,000		
Note	s and Definitio	ons for	this Report:		
	DATE RUN:	07/26/	94		
	ANALYST:	PAC			
	INSTRUMENT:	HP-	V1		
	DIL. FACTOR:		<u></u> 1		
	COMMENTS:		-		
	UNITS:	ug/Kg			

TOXIKON CORP.

REPORT

Work Order # 94-07-347

Received: 07/20/94

Results by Sample

SAMPLE ID T-2 BOT

FRACTION <u>O4A</u> TEST CODE <u>GC PET</u> NAME <u>PETROLEUM SCAN BY GC</u>

Date & Time Collected <u>07/19/94 09:35:00</u> Category <u>SOIL</u>

PARAMETER RESULT JP-4 ND Gasoline ND Kerosene ND Diesel ND No. 2 Fuel Oil ND No. 4 Fuel Oil ND No. 6 Fuel Oil ND Petroleum Contaminant 12.4 mg/Kg Total Petro. Hydrocarbons 12.4 mg/Kg DETECTION LIMIT Water Matrix Solid Matrix 10.0 mg/Kg Notes and Definitions for this Report: EXTRACTED 08/01/94 DATE RUN 08/01/94 ANALYST KAK INSTRUMENT ____ HP #5 N.O.S. = Not Otherwise Specified ND = Compound(s) not detected above detection limit Comments C8-C44

Received: 07/20/94	Results	by Sample	Work Order # 94-07-347
SAMPLE ID T-1/T-2 EAST	The second secon	5 FRACTIONS: A e Collected 07/19/94	09:45:00 Category SOIL
PB13.7 mg/Kg DL=1.00			

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TOXIKON CORP.

REPORT

Work Order # 94-07-347

Received: 07/20/94

Results by Sample

SAMPLE ID T-1/T-2 EAST

FRACTION <u>O5A</u> TEST CODE <u>8240</u> NAME <u>PURGEABLE ORGANICS VOA</u>

Date & Time Collected <u>07/19/94 09:45:00</u> Category <u>SOIL</u>

PURGEABLE ORGANICS VOA RESULT LIMIT RESULT LIMIT Acrolein trans-1,3-Dichloropropene ND 100 ND 2.0 Acrylonitride ND 10 Trichloroethene ND 2.0 Chloromethane 2.0 Dibromochloromethane ND 2.0 ND Bromomethane 2.0 ND 1,1,2-Trichloroethane ND 2.0 Vinyl Chloride 10 ND Benzene ND 2.0 Chloroethane ND 2.0 cis-1,3-Dichloropropene 2.0 ND Methylene Chloride 2-Chloroethylvinylether ND 10 2.0 ND Acetone 50 ND Bromoform ND 2.0 Carbon Disulfide 2.0 ND 2-Hexanone ND 4.0 1,1-Dichloroethene ND 2.0 4-Methyl-2-pentanone 4.0 ND Trichlorofluoromethane ND 2.0 Tetrachloroethene ND 2.0 1,1-Dichloroethane ND 2.0 1,1,2,2-Tetrachloroethane 2.0 ND Total 1,2-Dichloroethene ND 2.0 Toluene ND 2.0 Chloroform ND 2.0 Chlorobenzene 2.0 ND 1,2-Dichloroethane 2.0 ND Ethyl Benzene ND 2.0 2-Butanone ND 10 Styrene ND 2.0 1,1,1-Trichloroethane ND 2.0 Total Xylenes 2.0 ND Carbon Tetrachloride 2.0 ND 1,2-Dichlorobenzene ND 2.0 Vinyl Acetate 2.0 1,3-Dichlorobenzene ND ND 2.0 Bromodichloromethane ND 2.0 1,4-Dichlorobenzene 2.0 ND 1,2-Dichloropropane 2.0 ND Notes and Definitions for this Report: 07/27/94 DATE RUN: ANALYST: PAC INSTRUMENT: HP-V1 DIL. FACTOR: 1 COMMENTS: UNITS: ug/Kg ND = not detected at detection limit

TOXIKON CORP.

REPORT

Work Order # 94-07-347

Received: 07/20/94

Results by Sample

SAMPLE ID T-1/T-2 EAST

FRACTION <u>O5A</u> TEST CODE <u>GC PET</u> NAME <u>PETROLEUM SCAN BY GC</u>

Date & Time Collected <u>07/19/94 09:45:00</u> Category <u>SOIL</u>

PARAMETER		RESULT
JP-4		ND
Gasoline		ND
Kerosene		ND ND
Diesel		ND
No. 2 Fuel Oil		ND
No. 4 Fuel Oil		ND
No. 6 Fuel Oil		ND
Petroleum Contami	nant	ND
Total Petro. Hydr	ocarbons	ND ND
ETECTION LIMIT		212
Water Matrix		*
Solid Matrix		10.0 mg/Kg
EXTRACT	ED <u>08/01/94</u>	s for this Report:
ANALYST	N 08/01/94	
INSTRUM		
		ise Specified
ND = C	ompound(s) no	t detected
above (detection lim	it
Comment	·	

Page 17	TOXIKON CORP.	REPORT No.	ork Order # 94-07-347
Received: 07/20/94	Results b	ny Sample	
SAMPLE ID T-1/T-2 WEST	SAMPLE # Of	FRACTIONS: A	
	Date & Time	Collected 07/19/94 09:42:0	00 Category SOIL
PB 10.7			

mg/Kg DL=1.00

TOXIKON CORP.

REPORT

Work Order # 94-07-347

Received: 07/20/94

Results by Sample

SAMPLE ID T-1/T-2 WEST

FRACTION <u>O6A</u> TEST CODE <u>8240</u> NAME <u>PURGEABLE ORGANICS VOA</u>

Date & Time Collected <u>07/19/94 09:42:00</u> Category <u>SOIL</u>

	RESULT	LIMIT		RESULT LI	TIM
Acrolein	ND	100	trans-1,3-Dichloropropene	ND	2.0
Acrylonitride	ND	10	Trichloroethene	ND	2.0
Chloromethane	ND	2.0	Dibromochloromethane	ND	2.0
Bromomethane	ND	_2.0	1,1,2-Trichloroethane	ND	2.0
Vinyl Chloride	ND	10	Benzene	ND	2.0
Chloroethane	ND	2.0	cis-1,3-Dichloropropene	ND	2.0
Methylene Chloride	ND	10	2-Chloroethylvinylether	ND	2.0
Acetone	ND	50	Bromoform	ND	2.0
Carbon Disulfide	ND	2.0	2-Hexanone	ND	4.0
1,1-Dichloroethene	ND	2.0	4-Methyl-2-pentanone	ND	4.0
Trichlorofluoromethane	ND	2.0	Tetrachloroethene	ND	2.0
1,1-Dichloroethane	ND	2.0	1,1,2,2-Tetrachloroethane	ND	2.0
Total 1,2-Dichloroethene	ND	2.0	Toluene	ND	2.0
Chloroform	ND	2.0	Chlorobenzene	ND	2.0
1,2-Dichloroethane	ND	2.0	Ethyl Benzene	ND	2.0
2-Butanone	ND	10	Styrene	ND	2.0
1,1,1-Trichloroethane	ND	2.0	Total Xylenes	ND	2.0
Carbon Tetrachloride	ND	2.0	1,2-Dichlorobenzene	ND	2.0
Vinyl Acetate	ND	2.0	1,3-Dichlorobenzene	ND	2.0
Bromodichloromethane	ND	2.0	1,4-Dichlorobenzene	NO.	2.0
1,2-Dichtoropropane	ND	2.0			
Not	es and Definition	ons for	this Report:		
	DATE RUN:	07/27/	794		
	ANALYST:	PAC	51 →6		
	INSTRUMENT:	HP-	<u>-v1</u>		
	DIL. FACTOR:	-	1		
	COMMENTS:				
	UNITS:	ug/Kg			

TOXIKON CORP.

REPORT

Work Order # 94-07-347

Received: 07/20/94

Results by Sample

SAMPLE ID T-1/T-2 WEST FRACTION OGA TEST CODE GC PET NAME PETROLEUM SCAN BY GC Date & Time Collected 07/19/94 09:42:00 Category SOIL

ARAMETER	RESULT
JP-4	ND
Gasoline	ND
Kerosene	ND
Diesel	ND
No. 2 Fuel Oil	ND
No. 4 Fuel Oil	ND
No. 6 Fuel Oil	ND
etroleum Contaminant	ND
otal Petro. Hydrocarbons	ND
ETECTION LIMIT	
Water Matrix	*
Solid Matrix	10.0 mg/Kg
Notes and Definition	s for this Report:
EXTRACTED 08/01/94	
DATE RUN 08/01/94	
ANALYST KAK	
INSTRUMENT HP #5	
N.O.S. = Not Otherw	rise Specified
ND = Compound(s) no	t detected
above detection lim	it
Comments	

TOXIKON CORP.

REPORT

Work Order # 94-07-347

'Received: 07/20/94

Results by Sample

SAMPLE ID T-3 NORTH

FRACTION <u>07A</u> TEST CODE <u>8240</u> NAME <u>PURGEABLE ORGANICS VOA</u>

Date & Time Collected <u>07/19/94 13:35:00</u> Category <u>SOIL</u>

	RESULT	LIMIT		RESULT LI	MIT
Acrolein	ND	1000	trans-1,3-Dichloropropene	ND	20
Acrylonitride	ND	100	Trichloroethene	ND	20
Chloromethane	ND	20	Dibromochloromethane	ND ND	20
Bromomethane	ND	20	1,1,2-Trichloroethane	ND	20
Vinyl Chloride	ND	100	Benzene	ND ND	20
Chloroethane	ND	20	cis-1,3-Dichloropropene	ND	20
Methylene Chloride	ND	100	2-Chloroethylvinylether	ND	20
Acetone	ND	_500	Bromoform	ND ND	20
Carbon Disulfide	ND	20	2-Hexanone	ND	40
1,1-Dichloroethene	ND	20	4-Methyl-2-pentanone	ND	40
Trichlorofluoromethane	ND	20	Tetrachloroethene	ND	20
1,1-Dichloroethane	ND	20	1,1,2,2-Tetrachloroethane	ND ND	20
Total 1,2-Dichloroethene	ND	20	Toluene	ND	20
Chloroform	ND	20	Chlorobenzene	ND	20
1,2-Dichloroethane	ND	20	Ethyl Benzene	61.6	20
2-Butanone	6490	1000	Styrene	ND ND	20
1,1,1-Trichloroethane	ND	20	Total Xylenes	2990	20
Carbon Tetrachloride	ND	20	1,2-Dichlorobenzene	ND ND	20
Vinyl Acetate	ND	20	1,3-Dichlorobenzene	ND	20
Bromodichloromethane	ND	20	1,4-Dichlorobenzene	ND -	20
1,2-Dichloropropane	ND	20	174 D TORROT OBCHZENIE	ND _	20
Notes and I	Definitio	ons for	this Report:		
DATE I	RUN:	07/26/	<u>94</u>		
ANALYS	ST:	PAC			
INSTRU	JMENT:	HP-	<u>v1</u>		
DIL. F	ACTOR:	1	<u>0</u>		
UNITS:		ug/Kg			

TOXIKON CORP.

REPORT

Work Order # 94-07-347

Received: 07/20/94

Results by Sample

SAMPLE ID T-3 NORTH

FRACTION <u>O7A</u> TEST CODE <u>GC PET</u> NAME <u>PETROLEUM SCAN BY GC</u>
Date & Time Collected <u>O7/19/94 13:35:00</u> Category <u>SOIL</u>

PARAMETER	RESULT
JP-4	ND
Gasoline	ND
Kerosene	ND
Diesel	ND
No. 2 Fuel Oil	ND
No. 4 Fuel Oil	ND
No. 6 Fuel Oil	ND
Petroleum Contaminant	10.5 mg/Kg
Total Petro. Hydrocarbons	10.5 mg/Kg
DETECTION LIMIT	
Water Matrix	*
Solid Matrix	10.0 mg/Kg
EXTRACTED <u>08/01/94</u> DATE RUN <u>08/01/94</u> ANALYST <u>KAK</u> INSTRUMENT HP #	
N.O.S. = Not Other ND = Compound(s) n	wise Specified
above detection li	
above detection (1	

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TOXIKON CORP.

REPORT

Work Order # 94-07-347

Results by Sample

SAMPLE ID <u>T-3 SOUTH</u>	SAMPLE # 08 FRACTIONS: A
	Date & Time Collected 07/19/94 13:52:00 Category SOIL
PB10.1	
mg/Kg DL=1.00	

TOXIKON CORP.

REPORT

Work Order # 94-07-347

Received: 07/20/94

Results by Sample

SAMPLE ID T-3 SOUTH

FRACTION <u>OBA</u> TEST CODE <u>8240</u> NAME <u>PURGEABLE ORGANICS VOA</u>
Date & Time Collected <u>07/19/94 13:52:00</u> Category <u>SOIL</u>

PURGEABLE ORGANICS VOA RESULT LIMIT RESULT LIMIT Acrolein ND 100 trans-1,3-Dichloropropene ND 2.0 Acrylonitride 10 ND Trichloroethene 2.0 ND Chloromethane ND 2.0 Dibromochloromethane ND 2.0 Bromomethane ND 2.0 1,1,2-Trichloroethane ND 2.0 Vinyl Chloride ND 10 Benzene ND 2.0 Chloroethane ND 2.0 cis-1,3-Dichloropropene 2.0 ND Methylene Chloride ND 10 2-Chloroethylvinylether ND 2.0 Acetone ND 50 Bromoform ND 2.0 Carbon Disulfide ND 2.0 2-Hexanone ND 4.0 1,1-Dichloroethene ND 2.0 4-Methyl-2-pentanone 4.0 ND Trichlorofluoromethane ND 2.0 Tetrachloroethene 2.0 ND 1,1-Dichloroethane ND 2.0 1.1.2.2-Tetrachloroethane ND 2.0 Total 1,2-Dichloroethene ND __2.0 Toluene ND 2.0 Chloroform ND 2.0 Chlorobenzene 2.0 ND 1.2-Dichloroethane 2.0 ND Ethyl Benzene 2.0 ND 2-Butanone ND 10 Styrene ND 2.0 1,1,1-Trichloroethane ND 2.0 Total Xylenes 2.0 ND Carbon Tetrachloride 2.0 ND 1,2-Dichlorobenzene 2.0 ND Vinyl Acetate ND 2.0 1,3-Dichlorobenzene ND 2.0 Bromodichloromethane ND 2.0 1,4-Dichlorobenzene 2,0 ND 1,2-Dichloropropane ND _2.0 Notes and Definitions for this Report: DATE RUN: 07/26/94 ANALYST: PAC INSTRUMENT: HP-V1 DIL. FACTOR: 1 COMMENTS: UNITS: ug/Kg ND = not detected at detection limit

TOXIKON CORP.

REPORT

Work Order # 94-07-347

Received: 07/20/94

Results by Sample

SAMPLE ID T-3 SOUTH

FRACTION <u>OBA</u> TEST CODE <u>GC PET</u> NAME <u>PETROLEUM SCAN BY GC</u>

Date & Time Collected <u>07/19/94 13:52:00</u> Category <u>SOIL</u>

PARAMETER	RESULT
JP-4	ND
Gasoline	. ND
Kerosene	ND ND
Diesel	ND
No. 2 Fuel Oil	ND ND
No. 4 Fuel Oil	ND ND
No. 6 Fuel Oil	ND
Petroleum Contaminant	ND
Total Petro. Hydrocarbons	ND ND
DETECTION LIMIT	
Water Matrix	<u>*</u>
Solid Matrix	10.0 mg/Kg
Notes and Definition	ons for this Report:
EXTRACTED 08/01/94	<u>4</u>
DATE RUN 08/01/94	
ANALYST KAK	
INSTRUMENT HP #	<u>#5</u>
N.O.S. = Not Other	rwise Specified
ND = Compound(s) r	not detected
above detection l	imit
Comments	

TOXIKON CORP.

REPORT

Work Order # 94-07-347

Received: 07/20/94

Results by Sample

SAMPLE ID T-3 EAST

FRACTION <u>O9A</u> TEST CODE <u>8240</u> NAME <u>PURGEABLE ORGANICS VOA</u>

Date & Time Collected <u>07/19/94 13:45:00</u> Category <u>SOIL</u>

PUKG	EABLE OR	GAN.	LCS VUA		
	RESULT	LIMIT		RESULT L	IMIT
Acrolein	ND	100	trans-1,3-Dichloropropene	ND	_ 2.0
Acrylonitride	ND	10	Trichloroethene	ND	_2.0
Chloromethane	ND	_2.0	Dibromochloromethane	ND	2.0
Bromomethane	ND	2.0	1,1,2-Trichloroethane	ND	2.0
Vinyl Chloride	ND	10	Benzene	ND	2.0
Chloroethane	ND	2.0	cis-1,3-Dichloropropene	ND	2.0
Methylene Chloride	ND	10	2-Chloroethylvinylether	ND	2.0
Acetone	ND	50	Bromoform	ND	2.0
Carbon Disulfide	ND	2.0	2-Hexanone	ND	4.0
1,1-Dichloroethene	ND	2.0	4-Methyl-2-pentanone	ND	4.0
Trichlorofluoromethane	ND	2.0	Tetrachloroethene	ND	2.0
1,1-Dichloroethane	ND	2.0	1,1,2,2-Tetrachloroethane	ND	2.0
Total 1,2-Dichloroethene	ND	2.0	Toluene	ND	2.0
Chloroform	ND	2.0	Chlorobenzene	ND	2.0
1,2-Dichloroethane	ND	2.0	Ethyl Benzene	ND	2.0
2-Butanone	ND	10	Styrene	ND	2.0
1,1,1-Trichloroethane	ND	2.0	Total Xylenes	ND	2.0
Carbon Tetrachloride	ND	2.0	1,2-Dichlorobenzene	ND	2.0
Vinyl Acetate	ND	2.0	1,3-Dichlorobenzene	ND	2.0
Bromodichloromethane	ND	2.0	1.4-Dichlorobenzene	ND	2.0
1,2-Dichloropropane	ND	2.0		1 1 - 1 - 1	
Not	es and Definiti	ons for	this Report:		
	DATE RUN:	07/26/	<u> 194</u>		
	ANALYST:	PAC			
	INSTRUMENT:	НР-	<u>-v1</u>		
	DIL. FACTOR:	8	1		
	COMMENTS:			*	
	UNITS:	ug/Kg			

TOXIKON CORP.

REPORT

Work Order # 94-07-347

Received: 07/20/94

Results by Sample

SAMPLE ID T-3 EAST

FRACTION <u>09A</u> TEST CODE <u>GC PET</u> NAME <u>PETROLEUM SCAN BY GC</u>

Date & Time Collected <u>07/19/94 13:45:00</u> Category <u>SOIL</u>

PARAMETER	RESULT
JP-4	ND
Gasoline	ND
Kerosene	ND
Diesel	ND ND
No. 2 Fuel Oil	ND
No. 4 Fuel Oil	ND ND
No. 6 Fuel Oil	ND
Petroleum Contaminant	ND
Total Petro. Hydrocarbons	<u> </u>
DETECTION LIMIT	
Water Matrix	*
Solid Matrix	10.0 mg/Kg
Notes and Definition	ons for this Report:
EXTRACTED 08/01/94	4
DATE RUN 08/01/94	
ANALYST KAK	
INSTRUMENT HP	<u>#5</u>
N.O.S. = Not Other	rwise Specified
ND = Compound(s)	not detected
above detection l	imit
Comments	

Page 29 Received: 07/20/94	TOXIKON CORP. Results by	REPORT / Sample	Work Order # 94-07-347
SAMPLE ID T-3 WEST		FRACTIONS: A Collected 07/19/9	4 13:48:00 Category <u>SOIL</u>
PB 11.8 mg/Kg DL=1.00			

N.

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TOXIKON CORP.

REPORT

Work Order # 94-07-347

Received: 07/20/94

Results by Sample

SAMPLE ID T-3 WEST

FRACTION 10A TEST CODE 8240 NAME PURGEABLE ORGANICS VOA

Date & Time Collected 07/19/94 13:48:00 Category SOIL

	RESULT	LIMIT		RESULT LIMIT	
Acrolein	ND	1000	trans-1,3-Dichloropropene	ND	20
crylonitride	ND	100	Trichloroethene	ND	20
thloromethane	<u>ND</u>	20	Dibromochloromethane	ND	20
Promomethane	ND	20	1,1,2-Trichloroethane	ND	20
inyl Chloride	ND	100	Benzene	806	20
thloroethane	ND	20	cis-1,3-Dichloropropene	ND	20
ethylene Chloride	ND	100	2-Chloroethylvinylether	ND	20
Acetone	637	500	Bromoform	ND	20
Carbon Disulfide	ND	20	2-Hexanone	ND	4
1,1-Dichloroethene	ND	20	4-Methyl-2-pentanone	ND	4
richlorofluoromethane	ND	20	Tetrachloroethene	ND	2
,1-Dichloroethane	ND	20	1,1,2,2-Tetrachloroethane	ND	2
Total 1,2-Dichloroethene	ND	20	Toluene	86000	200
chloroform	ND		Chlorobenzene	ND	2
,2-Dichloroethane	ND	20	Ethyl Benzene	33100	200
2-Butanone	ND	100	Styrene	ND	20
1,1,1-Trichloroethane	ND	20	Total Xylenes	250000	400
Carbon Tetrachloride	ND.	20	1,2-Dichlorobenzene	ND	20
/inyl Acetate	ND	20	1,3-Dichlorobenzene	ND	2
Bromodich Loromethane	ND		1,4-Dichlorobenzene	ND	2
1,2-Dichloropropane	ND	20			
Not	tes and Definiti	ons for	this Report:		
	DATE RUN:		<u> 194</u>		
	ANALYST:	PAC			
	INSTRUMENT:	HP-	<u>-v1</u>		
	DIL. FACTOR:		<u>10</u>		
	COMMENTS:				
	UNITS:	ug/Kg		200	

TOXIKON CORP.

REPORT

Work Order # 94-07-347

Received: 07/20/94

Results by Sample

SAMPLE ID T-3 WEST

FRACTION 10A TEST CODE 6C PET NAME PETROLEUM SCAN BY 6C

Date & Time Collected 07/19/94 13:48:00 Category SOIL

JP-4		
	ND	
Gasoline	ND	
(erosene	ND ND	
Piesel	ND	
ło. 2 fuel Oil	ND ND	
io. 4 Fuel Oil	ND	
lo. 6 Fuel Oil	ND	
etroleum Contaminant	12.5 mg/Kg	
otal Petro. Hydrocarbons	12.5 mg/Kg	
ETECTION LIMIT		
Water Matrix	*	
Solid Matrix	10.0 mg/Kg	
Notes and Definition	ns for this Report:	
EXTRACTED 08/01/94		
DATE RUN 08/01/94		
ANALYST KAK		
INSTRUMENT HP #5		
N.O.S. = Not Otherw	vise Specified	
ND = Compound(s) no	ot detected	
above detection lim	ait	
Comments	C	8-c3

TOXIKON CORP.

REPORT

Work Order # 94-07-347

Received: 07/20/94

Results by Sample

SAMPLE ID T-3 BOT

FRACTION 11A TEST CODE 8240 NAME PURGEABLE ORGANICS VOA

Date & Time Collected 07/19/94 13:58:00 Category SOIL

	RESULT	LIMIT		RESULT L	IMIT
Acrolein	ND	10000	trans-1,3-Dichloropropene	ND	200
Acrylonitride	ND	1000	Trichloroethene	ND	_ 200
Chloromethane	ND	200	Dibromochloromethane	ND	_200
Bromomethane	ND	200	1,1,2-Trichloroethane	ND	200
Vinyl Chloride	ND	1000	Benzene	1880	_200
Chloroethane	ND	200	cis-1,3-Dichloropropene	ND	200
Methylene Chloride	ND	1000	2-Chloroethylvinylether	ND	200
Acetone	ND	5000	Bromoform	ND	_200
Carbon Disulfide	ND	200	2-Hexanone	ND.	400
1,1-Dichloroethene	ND	200	4-Methyl-2-pentanone	ND	400
Trichlorofluoromethane	ND	200	Tetrachloroethene	ND	_ 200
1,1-Dichloroethane	ND	200	1,1,2,2-Tetrachloroethane	ND.	_200
Total 1,2-Dichloroethene	ND	200	Toluene	22100	2000
Chloroform	ND	200	Chlorobenzene	ND	200
1,2-Dichloroethane	ND	_200	Ethyl Benzene	8350	200
2-Butanone	5990	1000	Styrene	ND	_200
1,1,1-Trichloroethane	ND	200	Total Xylenes	81100	4000
Carbon Tetrachloride	ND.	200	1,2-Dichlorobenzene	ND.	_ 200
Vinyl Acetate	ND	200	1,3-Dichlorobenzene	ND	_200
Bromodichloromethane	ND	200	1,4-Dichlorobenzene	ND	200
1,2-Dichloropropane	ND	200	92)		
Not	es and Definiti	ions for	this Report:		
	DATE RUN:	07/26/	<u> 194</u>		
	ANALYST:	PAC			
	INSTRUMENT:	HP-	<u>-v1</u>		
	DIL. FACTOR:	10	<u>00</u>		
	COMMENTS:	1.00			
	UNITS:	ug/Kg			

TOXIKON CORP.

REPORT

Work Order # 94-07-347

Received: 07/20/94

Results by Sample

SAMPLE ID T-3 BOT

FRACTION 11A TEST CODE 6C PET NAME PETROLEUM SCAN BY 6C

Date & Time Collected 07/19/94 13:58:00 Category SOIL

PARAMETER	RESULT
JP-4	ND
Gasoline	ND
Kerosene	ND
Diesel	ND.
No. 2 Fuel Oil	ND
No. 4 Fuel Oil	ND
No. 6 Fuel Oil	ND
Petroleum Contaminant	ND
Total Petro. Hydrocarbons	ND
DETECTION LIMIT	
Water Matrix	<u>*</u>
Solid Matrix	10.0 mg/Kg
EXTRACTED <u>08/01/9</u> DATE RUN <u>08/01/94</u> ANALYST <u>KAK</u> INSTRUMENT HP	
	rwise Specified
N.O.S. = Not Othe ND = Compound(s) above detection L	

TOXIKON CORP.

REPORT

Work Order # 94-07-347

Received: 07/20/94

Test Methodology

TEST CODE 8240 NAME PURGEABLE ORGANICS VOA

EPA METHOD: 8240: Gas Chromatography/Mass Spectrometry for Volatile Organics.

Reference: Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods.

EPA SW-846 (Third Edition) 1986. Office of Solid Waste, USEPA.

This method has been modified by the use of a capillary column.

TEST CODE EPETS NAME EXTRACTION GC PET SOIL

EPA METHOD: 3540: Soxhlet Extraction.

Reference: Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods.

EPA SW-846 (Third Edition) 1986. Office of Solid Waste, USEPA.

TEST CODE GC PET NAME PETROLEUM SCAN BY GC

EPA Method: 8100 Modified

Reference: Test Methods for Evaluating Solid Waste: Physical/Chemical

Methods. EPA SW-846 (Third Edition) 1986.

Office of Solid Waste, USEPA.

This method utilizes analytical procedures consistent with EPA Method 8100. The identity of petroleum contaminants is subject to comparison with commercially supplied standards.

ASTM D-3328

RESULTS ARE REPORTED ON A DRY WEIGHT BASIS.

TEST CODE MEX TS NAME METALS, TOTAL EXT., SOIL

REFERENCE:

EPA METHOD 3050: Acid Digestion of Sediments, Studges and Soils. Test Methods for Evaluating Solid Waste Physical/Chemical Methods. SW 846, 3rd Edition.

Analytical Method for ICP:6010A



225 Wildwood Ave., Woburn, MA 01801 Telephone: (617) 933-6903 Fax: (617) 933-9196

CHAIN OF CUSTODY RECORD

WORK ORDER #: つ4-07-347

16-80-30

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11111		R P-PLASTIC	35	HUDSON .
	ANALYSES	SAMPLETYPE CONTAINERTYPE		COMPANY: GEOLOGIC SEIG
. Oct 194	DUE DATE		98	Fax: (617) 933-8903



Release Tracking Number:

10351

BILL OF LADING (pursuant to 310 CMR 40.0030)

Street:		
City/Town:	State:	Zip Code:
F. DESCRIPTION OF REMEDIATION (check all that apply)	WASTE:	€
Contaminated Media (circle all that apply):	Soil Groundwater Surface Wa	ter Other:
Contaminated Debris (circle all that apply): Inorganic Absorbant Materials	Demolition/Construction Waste Other:	Vegetation/Organic Materials
Non-hazardous Uncontainerized Waste (circ	ele all that apply): Non-aqueous Phase	Liquid Other:
Non-hazardous Containerized Waste (circle Engineered Impoundments	all that apply): Tank Bottoms/Sludges Other:	
Type of Contamination (circle all that apply):	Gasoline Diesel Fuel #2 Oil	#4 Oil #6 Oil Waste Oil
1991 - 1991 - 1991 - 1991 - 1991 - 1991 - 1991 - 1991 - 1991 - 1991 - 1991 - 1991 - 1991 - 1991 - 1991 - 1991	Participation of the control of the	Other:
Contaminant Source (check one/specify): T	ransportation Accident X Undergroun	d Storage Tank Other:
Response Action Associated with Bill of Lading (Utility-Related Abatement Measu Other (specify):	re Limited Removal Action (LR/	
Site History Information Sampling are supporting documentation is not appended information was previously submitted to DEP. G. LICENSED SITE PROFESSIONAL	, provide an attachment stating the d	ate and in connection with what document such
Coologie So	ruices Corporation	
Name of Organization: Geologic Se	ervices Corporation	
Name of Organization: Geologic Se LSP Name: Steven L. Dean	ervices Corporation	Title: Vice President
Name of Organization: Geologic Set LSP Name: Steven L. Dean Telephone: 508 - 568 - 8740 E I have personally examined and am familiar with Origina that the testing and Reseasement action	ixt the information contained on and submission detailed to characters.	itted with this form. Based on this information, it is my
Name of Organization: LSP Name: Steven L. Dean Telephone: 508 - 568 - 8740 E I have personally examined and am familiar with Opinion that the testing and assessment action CMR 40.0030, and that the testify or location of that significant penalties including, but not minite be false, inaccurate, or materially incomplete. Signature: Date: 10 13 94 License Number: 9202 H. CERTIFICATION OF PERSON CO	ervices Corporation ixt in the information contained on and submiss undertaken were adequate to characte an accept remediation wastes with the cod to, possible fines and imprisonment m	itted with this form. Based on this information, it is my erize the Remediation Waste, in accordance with 310 haracteristics described the standard printal. I am aware ay result if I wilfully as making the standard princh I know to Seal:
Name of Organization: Secologic Security Name: Steven L. Dean Telephone: 108 - 568 - 8740 I have personally examined and am familiar with Opinion that the testing and assessment action CMR 40.0030, and that the testility or location Chat significant penalties including, but not write be false, inaccurate, or materially incomplete. Signature: Date: 10-13194 License Number: 1 certify under penalties of law that I have person and all documents accompanying this certification the information, the material information contains the information, the material information contains the information of the material information contains the information	ixt	itted with this form. Based on this information, it is my erize the Remediation Waste, in accordance with 310 haracteristics described the points. I am aware ay result if I wilfully approximate the provided the second of the s



BWSC-012A

	Release Tracking Number	
2 -	10351	

BILL OF LADING (pursuant to 310 CMR 40.0030)

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/RY/10Wn:	Lton		Zip Code: 0	1740		
Date/Period of General	tion: 7/19/94 to	10/7/94		W. 1920.	*	
Additional Release Tra	cking Numbers Associated with	this Bill of Lading:	2-103	03		
				Marie Manager		
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	Bolton Highway		ED WITH BI	LL OF LAD	ING:	
Name of Organization:	Harold Brown			Biohway	Superin	+ ~ ~ ~ ~ ~ +
Name of Contact:	rbush Mill Road		Title:	nighway	Superin	cendenc
Sueer	lton	*	MX	•	01740	
500	779 - 6402	State:	MA	Zip Code:	01740	
Telephone:	Ext					
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	WITH BILL OF LADING):				
(check one/specify)						
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The state of the s	rcle one): Owner Operator	r Generator Transpo	rter Other PRP		* *	
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BWSC-012B

BILL	OF LADIN	3 (pursuant to 310 CMR	40.0030)
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LOAD 2: Signature of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
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LOAD 3: Signature of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
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Truck/Tractor Registration: Trailer Registration (if an	y): (circle one) am/pm Load Size (cu. yds./tons):
LOAD 4: Signature of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
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Truck/Tractor Registration: Trailer Registration (if an	y): (circle one) am/pm Load Size (cu. yds./tons):
LOAD 5: Signature of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
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BWSC-012B

Ratease Tracking Number:

BILL OF LADING (pursuant to 210 CMR 40.0000)

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Release Tracking Number:

BILL OF LADING (pursuant to 310 CMR 40.0030)
SUMMARY SHEET____OF___

10351 2

C. SUMMARY OF SI	HIPMENTS:	3	
DATE OF SHIPMENT:	DATE OF RECEIPT:	NUMBER OF LOADS SHIPPED:	DAILY VOLUME SHIPPED (CU. YOS TONS)
11-3-94	11394	3	61.24
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SUMMARY S	SHEET TOTAL SHIPPED:	5	132.05
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L OF LADING (pursuant to 310 CMR 40.0030)

DEP SUMMARY SHEET	2-[1035]
L ACKNOWLEDGEMENT OF RECEIPT OF REMEDIA' TEMPORARY STORAGE LOCATION:	TION WASTE AT RECEIVING FACILITY OR
Receiving Facility/Temporary Location Representative (print): WO I Signature: MS AMAGES	Cambridge Title: Maxyer Date: 11/4/94
M. ACKNOWLEDGEMENT OF SHIPMENT AND RECEI CONDUCTING RESPONSE ACTION ASSOCIATED	
and all documents accompanying this certification, and that, based of the information, the material information contained herein is, to the best	in familiar with the information contained in this submittal, including any in my inquiry of those individuals immediately responsible for obtaining tof my knowledge and belief, true, accurate and complete. I am aware lible fines and imprisonment, for wilfully submitting false, inaccurate, or
Signature: Harohd E. Brack	Date: // /14/88





BWSC-010

SUPPLEMENTAL RISK REDUCTION TRANSMITTAL FORM (pursuant to 310 CMR 40.0400)

LS	94	Release Tracking Numbe
	2 -	10351

A. RELEASE OR THREAT OF RELEASE (TOR) LOCATION:			
Release Name (optional): Bolton Highway Department			
Street: 12 Forbush Mill Road Location Aid:			
City/Town: Bolton, MA Zip Code:			
Additional Release Tracking Numbers that this Transmittal Form Will Address:			
B. PERSON ASSUMING RESPONSIBILITY FOR THIS TRANSMITTAL:			
Name of Organization: Town of Bolton			
Name of Contact: Harold Brown Title: Highway Dept. Superintender			
Street: 12 Forbush Mill Road			
City/Town: Bolton State: MA Zip Code: 01740 -			
Telephone: 508 - 779 - 6402 Ext			
C. RELATIONSHIP TO RELEASE OR TOR OF PERSON ASSUMING RESPONSIBILITY			
FOR THIS THE TALL			
(check one/specify)			
RP Specify (circle one): Owner Operator Generator Transporter Other RP:			
PRP Specify (circle one): (Owner) Operator Generator Transporter Other PRP:			
Fiduciary/Secured Lender			
Agency/Public Utility on a Right of Way			
Other Person:			
D. DOCUMENT BEING SUBMITTED:			
(check one)			
Immediate Response Action (IRA) Status Report (pursuant to 310 CMR 40.0425)			
Release Abatement Measure (RAM) Status Report (pursuant to 310 CMR 40. 0445)			
Utility-Related Abatement Measure (URAM) Status Report (pursuant to 310 CMR 40.0465)			
Include the following information in all Status Reports:			
 A description of the current status of assessment and/or remedial actions. 			
2. Any significant new site information or data.			
3. Current details of and/or plans for management of Remediation Waste.			
4. Monitoring data related to the operation of remedial action treatment systems not already submitted to the Department.			
5. Any other information required by the Department as part of its approval of a RAM Plan, an IRA Plan or any other approval.			
Phase I Completion Statement (pursuant to 310 CMR 40.0484). Attach this Transmittal Form to the Phase I Report and check one of the			
following: A Comprehensive Response Action is necessary at this site.			
Requirements of either a Class A or Class B Response Action Outcome have been met and this document is submitted in			
support of a Response Action Outcome Statement CEIVED			
UCT 2 5 1994			
D.E.P-CENTRA_REGION			



BWSC-010

Release Tracking Number:

SUPPLEMENTAL RISK REDUCTION TRANSMITTAL FORM (pursuant to 310 CMR 40.0400)

2 10351

. LSP WHO PREPARED THIS	S SUPPLEMENTAL RISK REDU	CHON INANSMITTAL FORM.
ame of Organization: Geolog	ic Services Corporat	ion
SP Name: Steven L. De	an	Title: Vice President
elephone: 508 - 568 - 87		
		contained in this submittel including any and all documents
\$ 000 00 00 00 000 000 000 000 000 000		ct C.
I attest that I have personally exami accompanying this attestation, and in provisions of M.G.L. c. 21A, §§19-19 approvals applicable to such respons and imprisonment, if I willfully submit:	ned and am familiar with the information of /my professional judgment, the response act U, 309 CMF, M.G.L. c. 21E, 310 CMR 40. e action(s). If am aware that significant pena information which Lanow to be false, inaccur	ontained in this submittal, including any and all documents ion(s) that is the subject of this submittal complies with the 0000, and all other laws, regulations, orders, permits, and lities may result, including, but not limited to, possible fines ate or incomplete.
Signature.	- Cea	Seal:
Date: 10 + 17 1 44 License Number:	プフカフ	A SHEAT
License Number.		STEVEN STEVEN
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certify under penalties of law that I h	ave personally examined and am familia	ITY FOR ACTION DESCRIBED IN THIS FORM: It with the information contained in this submittal, including any
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Massachusetts Department of Environmental Protection

OHM RELEASE LOG FORM ATTACHMENT

tection BWSC-002

Bureau of Waste Site Cleanup

LS 4-94

Release Tracking Number:

2-10351

A. LOG/RELEASE LOCATION INFORMATION: Date: 10 /24/94 Time: ____ ampm (circle one) Balton Follow-up Office Attachment Page(s): of Field Use of Attachment (check one): B. ADDITIONAL DESCRIPTION: Is this form being used to document an Oral IRA Plan approval and/or conditions? IRA Status report from Town of Bolton however LSP I called Bruce Ross of GSC + told him not accept the status report unless signatures are original. redged this + said that he was submitting original Bruce indicated that absence of the C. ADDITIONAL POTENTIALLY RESPONSIBLE PARTY INFORMATION: Other PRP Other Contact If Other Contact, Specify Relationship to Release: ___ Name of Organization: ___ ____ Title: __ Contact Name: _____ Street: _ _____ Zip Code: _____ -_____ State: __ City/Town: _ ____ Ext. ____ Telephone: _ _ Title: _ Name of Local Contact: -Street: -_____ State: ____ Zip Code: ____ = __ City/Town: ___ Telephone: -D. DEP ASSIGNMENT: Preparer of RLFA (please print): Signature: Zarry Staff Lead Assigned (if different fom Preparer):

October 18, 1994

Mr. Larry Scangas
Massachusetts Department of Environmental Protection
Central Regional Office
75 Grove Street
Worcester, MA

RECEIVED

OCT 2 1 1994

D.E.P-CENTRALREGION

Re:

Bolton Highway Department 12 Forbush Mill Road Bolton, MA RTN #10351 IRA Status Report

Dear Mr. Scangas:

On behalf of the Town of Bolton, Massachusetts and pursuant to 310 CMR 40.0425, this letter is intended to summarize the status of the Immediate Response Action (IRA) currently being conducted at the above referenced site. Verbal approval to conduct an IRA at this site was granted on June 23, 1994. A written IRA Plan was submitted to the Department of Environmental Protection (DEP) on August 11, 1994. A completed Supplemental Risk Reduction Form is attached.

The scope of the subject IRA included the excavation and removal of three gasoline underground storage tanks and the associated removal/disposal of up to 100 cubic yards of gasoline affected soils. As documented in the written IRA Plan, the three gasoline USTs were removed on July 19, 1994. At this time approximately 75 cubic yards of gasoline affected soils were stockpiled on site and encapsulated in polyethylene sheeting pending transportation to a disposal facility.

As of the date of this letter arrangements have been made by the Town of Bolton to transport the soils generated during the UST removal to the American Reclamation Corporation (AMREC) facility in Charlton, MA under a Bill of Lading. Transportation of these soils is tentatively scheduled for the first week of November, 1994.

GSC is also currently in the process of preparing a Phase I - Initial Site Investigation Report to be submitted in support of a Tier Classification submittal in accordance with 310 CMR 40.0510. Other than that information previously provided to the DEP both orally and in writing, there has not been any significant new site information revealed regarding the subject IRA.

The final disposal of the soil generated during the UST removal is considered to be the final activity associated with this IRA. Once soil disposal is complete, GSC will submit, on behalf of the Town of Bolton, an IRA Completion Statement.

Please do not hesitate to contact me if you have any questions or require any additional information.

Very Truly Yours, Geologic Services Corporation

Bruce C, Ross Project Manager

cc: Harold Brown, Bolton Highway Department

BCR/sml ref# 940603.17

RECEIVED

UCT 2 1 1994

D.E.P-CENTRALREGION

B.H.



Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

BWSC-010

Release Tracking Number:

SUPPLEMENTAL RISK REDUCTION
TRANSMITTAL FORM (pursuant to 310 CMR 40.0400)

2 - 10351

Release Name (optional): Bolton Highway Department Street: 12 Forbush Mill Road Location Aid:	
City/Town: Bolton, MA Zip Code:	
Additional Release Tracking Numbers that this Transmittal Form Will Address:	
B. PERSON ASSUMING RESPONSIBILITY FOR THIS TRANSMITTAL: Name of Organization: Town of Bolton	
1140.	ghway Dept. Superintenden
Street: 12 Forbush Mill Road	
City/Town: Bolton State: MA Z	ip Code: 01740 -
Telephone: 508 - 779 - 6402 Ext.	
C. RELATIONSHIP TO RELEASE OR TOR OF PERSON ASSUMING RESPONSION THIS TRANSMITTAL: (check one/specify) RP Specify (circle one): Owner Operator Generator Transporter Other RP: _ PRP Specify (circle one): Owner Operator Generator Transporter Other PRP: _ Fiduciary/Secured Lender Agency/Public Utility on a Right of Way Other Person:	NSIBILITY
D. DOCUMENT BEING SUBMITTED: (check one)	RECEIVED
Immediate Response Action (IRA) Status Report (pursuant to 310 CMR 40.0425)	OCT 2 1 1994
Release Abatement Measure (RAM) Status Report (pursuant to 310 CMR 40.0445) Utility-Related Abatement Measure (URAM) Status Report (pursuant to 310 CMR 40.0465)	D.E.P-CENTRALREGION
Include the following information in all Status Reports:	
A description of the current status of assessment and/or remedial actions.	
Any significant new site information or data.	
Current details of and/or plans for management of Remediation Waste.	
Monitoring data related to the operation of remedial action treatment systems not a	Iready submitted to the Department.
5. Any other information required by the Department as part of its approval of a RAM	
Phase I Completion Statement (pursuant to 310 CMR 40.0484). Attach this Transmittal Form to following:	
A Comprehensive Response Action is necessary at this site.	
Requirements of either a Class A or Class B Response Action Outcome have been	met and this document is submitted in





BWSC-010

Release Tracking Manager

SUPPLEMENTAL RISK REDUCTION

18351

	ologic Services Co		
Name Staven !	0.1.0	Too: Vice President	
	of statement and an implement the state in my protectional protection of the state in the state	information donothing in this submitted, including any and all documents outpoints and adjustments outpoints that is the subject of this submitted complete with the 310 CMF 40,5000, and as other laws, requisitions, orders, pormits, and spreading permitted may excell including, but not limited to, possible lines inters, inaccurated or incomplete.	ement (((
Signature: Dasio: IO 7 1 7 1 G Ubernoo Mumiber		STEVEN DEAN DEAN	
			- 10
		w)	

and all decuments assumptingly this certification, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained hereit, is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are algorithmatical penalties, including, but not limited to, possible fines and imprepriment, for whichly submitting label, inaccurate, or impromplete information. Date: 10 | 19 | 94

Name of Person (prix): Harohd

RECEIVED UCT 2 1 1994

D.E.P-CENTRALREGION



August 11, 1994

RECEIVED

Mr. Larry Scangas
Massachusetts Department of Environmental Protection
Central Regional Office
75 Grove Street
Worcester, MA 01605

AUG 1 6 1994 D.E.P-CENTRAL FIEGION

Re:

Bolton Highway Department 12 Forbush Road RTN #10351

Immediate Response Action Plan

Dear Mr. Scangas:

Pursuant to 310 CMR 40.0424, Geologic Services Corporation (GSC), on behalf of the Town of Bolton, hereby submits a written Immediate Response Action (IRA) Plan for the above referenced site. This plan is being submitted subsequent to verbal correspondence between GSC and DEP on June 23, 1994, during which DEP granted the Town of Bolton approval to excavate and remove three (3) gasoline underground storage tanks (USTs) and to stockpile and dispose of up to 100 cubic yards of petroleum affected soils in association with the UST removal. This letter is to serve as written notification of the previously approved, aforementioned scope of work.

On July 19, 1994 the three (3) gasoline USTs were excavated and removed from the subsurface. During and after UST removal, representative soil samples of excavated and in-situ soil were field screened using a photoionization detector. Selected samples were submitted to a Massachusetts certified laboratory for testing. Results are pending. A total of approximately 75 cubic yards of potentially petroleum affected soils was stockpiled on site and encapsulated in polyethylene sheeting pending transportation to a disposal facility. The UST excavations were then backfilled with clean fill to grade.

GSC and the Town of Bolton are currently working to facilitate the proper management and disposal of the stockpiled soil. Upon completion of the soil disposal, GSC, on behalf of the Town of Bolton, will submit an IRA Completion Statement pursuant to 310 CMR 40.0427.

Attached please find a completed IRA Plan Transmittal Form. Should you have any questions or require any additional information please do not hesitate to contact me.

Very Truly Yours,

Bruce C. Ross Project Manager

Geologic Services Corporation

cc: Harold Brown, Town of Bolton

attachment

BCR/sml ref# 940603.08



8-17-94

BWSC-005 Release Tracking Number:

IMMEDIATE RESPONSE ACTION (IRA) PLAN TRANSMITTAL FORM (pursuant to 310 CMR 40.0424)

2

10351

City/Town:Bolton, MA Additional Release Tracking Numbers that this IRA Will Add B. PERSON ASSUMING RESPONSIBILITY F Name of Organization:Town of Bolto Name of Contact: _Harold Brown Street: _12 Forbush Road	f OR IRA: n Title:	
Name of Organization: Town of Bolto Name of Contact: Harold Brown Street: 12 Forbush Road City/Town: Bolton Telephone: 508 - 779 - 6402 Ext.	n Title:	
C. RELATIONSHIP TO RELEASE OR TOP OF		Zip Code: 01740 –
(check one/specify) RP Specify (circle one): Owner Operator Ge	F PERSON ASSUMING RESPO enerator Transporter Other RP: _ enerator Transporter Other PRP:	NSIBILITY FOR IRA:
D. RESPONSE INFORMATION: Is an RNF attached? Is this a follow-up to an approved oral IRA; Have any response actions been initiated to the oral applifyes, provide details in the IRA plan. Is this an update or modification to a previous written plan?		
E. SITE CONDITIONS THAT WARRANT IRA Media/Receptors Affected (circle all that apply): Air Public Water Supply Zone 2 Residence IRA Trigger (from CMR 40.0412) (check all that apply): 2 HOUR CONDITION	roundwater Sedimon School Unknown Other: SUBSTANTIAL RELEASE	
Oil Sheen Release Detected in Private Well Imminent Hazard Threat of Sudden Release OHM	Discharge of separate phase OHM to sunderground utilities/conduits Release to soil/vadose zone jeopardizing Release to groundwater which migrates If release that has impacted or been dete etected in, one or more of the following:	more than 200 feet per year
72 HOUR CONDITION	Public/Private Drinking Water Supply We Public Reservoir/Surface Water Supply Downgradient Receptors (specify): —— Vapor Discharge into School Buildings/F	



BWSC-005

IMMEDIATE RESPONSE ACTION (IRA) PLAN
TRANSMITTAL FORM (pursuant to 310 CMR 40.0424)

Release Tracking Number:

F. PROPOSED IRA PLAN:	
Objective(s), specific plan(s), and proposed schedule must be pro- response actions (check all that apply):	ovided on attachments for all removal and
REMOVAL OF REMEDIATION WASTE:	OTHER RESPONSE ACTIONS:
Contaminated Water Contaminated Soils (check all that apply): Excavate Store Treat	Drainage Controls Berms/Dikes/Impoundments Temporary Covers/Caps Waste/Product Recovery Temporary Evacuation/Relocation of Residents
Re-use Recycle Estimate Volume:	Temporary Water Supplies Vent System Groundwater Treatment Systems Other:
Other:	ASSESSMENT ONLY
G. ENVIRONMENTAL MONITORING PLAN: Attach schedule and description. (check all that apply): Soil Groundwater Sediment Soil Vapors UST Tightness	Outdoor Air Indoor Air Other:
H. PERMITS/DOCUMENTATION: PERMITS/DOCUMENTATION REQUIRED FOR PLAN (circle all that apply): AST/UST Removal Permit Air Emissions Wetlands Groundwater [IPDES Bill of Lading HW Manifest Discharge Other:
I. LSP WHO PREPARED THIS IRA PLAN: Name of Organization: Geologic Services Corpora LSP Name: Steven L. Dean Telephone: 508 - 568 - 8740 Ext.	
I attest that I have personally examined and am familiar with the information of accompanying this attestation and in my professional judgment, the response accompanying this attestation and in my professional judgment, the response accompanying this attestation and in my professional judgment, the response accompanying the provisions of M.G.L. c. 21E, 310 CMR 40 approvals applicable to such tespense action(s). I am aware that significant peneral dimprisonment if willfully submit information which know to be false, inaccustionally accompanying the provision of	ontained in this submittal, including stand at secuments tion(s) that is the subject of this so intital complete. The complete stand and there have, regularities orders, peorless and the least or incomplete. STEVEN DEAN No. 9202
J. CERTIFICATION OF PERSON ASSUMING RESPONSIBIL	TY FOR IRA:
I certify under penalties of law that I have personally examined and am familiar and all documents accompanying this certification, and that, based on my inquite information, the material information contained herein is, to the best of my kind that there are significant penalties, including, but not limited to, possible fines incomplete information. Signature: Name of Person (print): Harold F Brown	with the information contained in this submittal, including any uiry of those individuals immediately responsible for obtaining nowledge and belief, true, accurate and complete. I am aware and imprisonment, for wilfully submitting false, inaccurate, or