

Spill #9411938. Roch. Monus Co.

6601 Kirkville Road E. Syracuse, NY 13057 Tel: (315) 432-0506 FAX: (315) 437-0509

November 3, 1995

Mr. Michael Zamiarski NYS Dept. of Environmental Conservation Region 8 6274 Avon-Lima Rd. Avon, NY 14414

Re:

The Gleason Works

Draft Tank Closure Report

Tanks 1 & 2

Galson Project No. 95L3079

Dear Mr. Zamiarski:

Enclosed please find a copy of the tank closure report for Tank 1 and Tank 2. If you have any questions or require further information, please call.

Sincerely,

**Galson Corporation** 

Thomas W. Moran, PE

Moman W. Moran

Project Manager

cc: T. Freeman - Gleason Works (w/report)

S. Fein - Whiteman, Osterman & Hanna (w/report)

RECEIVED 6 1995

DIV. OF SPILLS WEST



Tank Closure Report
Tank 1 & Tank 2
NYSDEC Spill #9411938
The Gleason Works
1000 University Avenue
Rochester, New York 14692

The Gleason Works, located at 1000 University Avenue, Rochester, New York, is a manufacturer of gear-cutting machines. The firm has been undergoing a voluntary tank closure and modification program. Included in this program are two underground storage tanks (USTs) (Tank 1 and Tank 2) located on the western end of the property (see Figure 1).

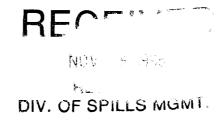
### Tank System Description

This system consisted of two 2,000-gallon USTs and associated appurtenances. Tank 1 contained naphtha, and Tank 2 contained lacquer thinner. Both of these tanks were located outside the west building wall, near the assembly shop floor area, and were installed in 1982. Tanks 1 and 2 had their contents extracted for use by a hand pump arrangement, whose spigots are located over a steel basin. This basin drained to the water pump under the adjacent paint spray booth.

Tanks 1 and 2 were to be closed in place due to their proximity to the building foundation wall. The volume of naphtha and paint thinner used at the facility has been dramatically reduced compared with the usage rates from the time that the tanks were originally installed. The replacement for these two tanks therefore consists only of a fire cabinet and small, fire-safe cans.

### Tank Closure Procedure

The tanks were closed in accordance with the requirements of 40 CFR 280 Subpart G. The closure was performed in August 1994 by Allwash under contract to Gleason. Remaining product in the tank was removed for use elsewhere in the facility. No sludge was found to be present at the bottom of the tank. The interior of the tanks was sprayed with high-pressure washers and rinsed with citrol degreaser. The wash water was drummed for proper disposal (see Materials Disposition). The tanks were left empty pending successful closure documentation sampling. All tank piping and associated fittings, including supply piping to the sink inside the building, vent piping outside the building, and connecting underground piping to the USTs, were cleaned and removed.



ESD\/\text{OB\\\1995\\95\\51307\\TANK\\1\&2\\\10395



### **Materials Disposition**

The wash water from cleaning the tanks was containerized in a 55-gallon drum. It was shipped off-site for disposal to Petro-Chem Processing, Inc., Michigan DNR manifest No. MI 3048454 (see attached copy).

The tank piping and associated fittings were cleaned and removed from the site as scrap metal and sent to Frank Metal.

### Closure Documentation

The closure documentation efforts for Tanks 1 and 2 consisted of two investigations.

### Initial Investigation (August 1994)

The initial investigation consisted of soil borings near the tanks. Visual inspection of the tanks could not be performed since they were being closed in place. However, the soil borings that occurred during soil sampling were performed to determine any contamination.

### Field Procedure

Two soil borings were advanced near the tanks (see Figure 2). Soil vapor headspace was evaluated with a HNu from split spoons during drilling. Two soil samples were selected from these borings for analysis of New York State Department of Environmental Conservation (NYSDEC) STARS list volatiles by EPA Method 8021. These two samples were selected based upon elevated HNu readings. The first sample (from boring TB2) was collected northwest of Tank 1 at a depth interval of 8 to 10 feet below grade. At 170 parts per million (ppm), it had the highest HNu reading in that boring. The second sample (from boring TB3) was southwest of Tank 2 at a depth interval of 10 to 10.2 feet below grade. This interval had the highest HNu reading, at 100 ppm. Boring refusal was at 12.2 feet for TB2 and 11.2 feet for TB3 (see Attachment A).

### Laboratory Analysis

Laboratory analysis was performed by EPA Method 8021 (NYSDEC STARS list volatiles). The results of the soil sample analyses yielded values of volatiles summarized below (see Attachment B).

ESD\\\095\\95\\51307\\\TA\\\K1\\&2\\\

### Results

The following table summarizes the laboratory results for parameters detected in either one of the samples submitted. All data are in micrograms per kilogram (µg/kg).

Compound	TB2	ТВ3	NYSDEC STARS Alternative Guidance Value
n-Butylbenzne	< 270	230	
Ethylbenzene	<b>5</b> 600	2300	100
Isopropylbenzene	< 270	200	
n-Propylbenzene	< 270	600	100
Toluene	< 270	6400	100
Trimethylbenzene	< 270	1400	
m,p-Xylene	6000	1600	100
o-Xylene	2000	680	100

These values indicated one or more compounds were above the Guidance Value for designation as clean soil. The findings of this investigation were reported to NYSDEC Region 8. The Petroleum and Chemical Bulk Storage group assigned the release Spill Number 9411938.

The results of this initial investigation and assigned spill file warranted additional investigation to further determine the nature and extent of the contamination. Due to practical and financial considerations, it was agreed upon by Gleason and NYSDEC Region 8 that this follow-up investigation would be performed in conjunction with other investigative efforts on-site.

### Additional Investigation (September 1995)

The additional investigation, to determine the lateral and vertical extent of the contamination, consisted of Geoprobe borings, HNu and field gas chromatograph (GC) headspace screening, and laboratory analyses of selected soil samples.

ESD\JOB\\995\95L307\\TANK1&2 110395

### Sampling Procedure

Test borings were completed by Geoprobe drilling method, which was used because of the minimal amounts of waste it would produce and because it is typically considerably faster than conventional drilling methods (such as hollow stem auger).

Boring locations were sited interactively based upon results of HNu and field GC soil headspace results. Initial boring locations were sited near the USTs and progressively moved outward in a radial pattern until no, or minimal, detection of contamination was observed. The resultant pattern and specific boring locations are presented in Figure 3.

Soil screening sampling with a Geoprobe was accomplished in 4-foot intervals, with 2-foot intervals screened with an HNu. Samples were submitted for field GC analysis based on elevated HNu readings and visual or olfactory evidence of contamination. Selected soil samples were submitted for laboratory analysis. Soil boring logs were completed for each borehole (see Attachment C).

### Field Analysis

Soil headspace was evaluated by two methods in the field. Hnu (photoionization detector, 10.2 eV lamp) data were collected by placing the probe in the soil sample container reserved for field analyses. Based upon HNu results, soil sample containers were forwarded to the on-site GC for additional analyses. The GC was calibrated against known standard solutions. Soil sample headspace was extracted directly by hollow needle through the sample vial top. This vapor sample was directly injected into the GC.

### Laboratory Analysis

Laboratory analysis was conducted on selected soil samples based on the results of the field sampling. Five of the samples analyzed were selected from the outer boundary of where there appeared to be little or no contamination. The sixth sample (TB4) was from the area of apparently higher contamination, based on field screening results. A total of six samples were analyzed by Method 8021 for NYSDEC STARS list VOAs with MEK; two of these samples were also analyzed by EPA Method 8270 for NYSDEC STARS semivolatiles. A third analytical method consisted of NYSDEC STARS VOA (with MEK) and semiVOA analyses of a TCLP extract of a sample.

ESDVOB\1995\95L307\TANK1\&2

Discussion of Results

Figure 3 shows the boring locations with corresponding HNu readings and GC results. Table 1 summarizes the analytical results for the samples submitted. The laboratory results, including on-site GC screening, are included in Attachment D.

The laboratory results from the additional investigation yielded values less than the Guidance Value concentrations under NYSDEC STARS for the presumed noncontaminated areas, coinciding with the field screening results. Based upon the results, it can be inferred that the area of potential contamination is less than the extent of this additional investigation.

In addition, the sample taken from the presumed area of contamination (B-4) showed volatile organic compounds (VOCs) to be less than the NYSDEC STARSGuidance Values. The semivolatile organic compound analytical results showed all compounds below detection limits (although some detection limits are greater than the Guidance Values). This indicates that the field screening methods were more conservative in results. The laboratory data also indicate that the area of potential contamination does not extend away from Tanks 1 and 2 as far as boring TB4.

The results from the more conservative field screening analysis indicated that potential contamination from the tanks was located in an area to the north-northwest. The depth of the contamination was located at 8 to 12 feet below grade, with overall thickness of potential contamination approximately 1 foot. At these refusal depths, the highest readings with the HNu were taken at a maximum of 200 ppm.

### **Conclusions**

The results from the initial investigation concluded that there was contamination found near (within 10 feet) the USTs, based on the results from borings TB2 and TB3. Based on the additional investigation, field screening during the soil borings showed low amounts or nondetectable amounts of contamination to the south, west, and north of the USTs. Field screening indicated some level of potential contamination close to the tanks. Laboratory data confirmed the presence of contaminants, but at low concentrations, less than NYSDEC STARS Guidance Values, even for the sample of the presumed contaminated area. Likewise, the analyses of the TCLP extract show no detectable levels for any of the guidance document potential semiVOA contaminants.

ESDNOB\\995\95L307\nank1\&2

Tanks 1 and 2 should be closed out as a clean closure, and the spill file should be closed. This conclusion is based on the findings during the initial and additional investigations of minimal concentration of contaminants localized to the immediate vicinity of the tanks. It is also based on the consideration that the entire area is covered by pavement or building.

Due to the location of the USTs (their proximity to the building foundation), the USTs are to be filled in place with concrete as a mechanical closure.

ESD\JOB\J995\95L307\\$\TANK1&2

# Table 1 Tanks 1 & 2 Laboratory Analysis The Gleason Works Additional Investigation Program Galson Project No. 95L3079

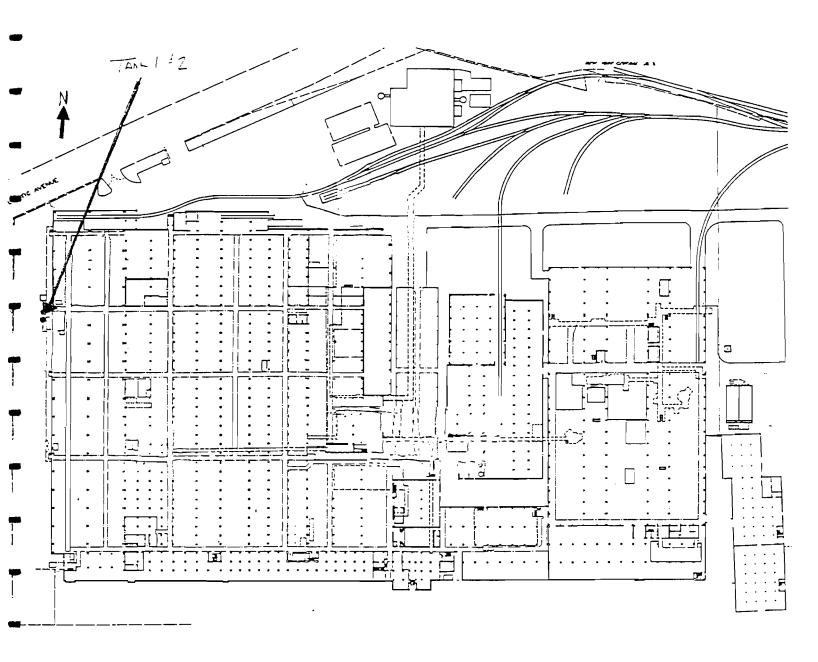
September 13 & 14, 1995

Location Volatile Organic Compounds (VOCs) Depth Compound Alt. Guidance Sample (ft)Value (ppb) Result (pg/kg) Ethylbenzene **TB-4** 100 64.0 10.5-11.0 n-Propylbenzene 100 11.0 Toluene 100 7.1 1,2,4-Trimethylbenzene 100 12.0 1,3,5-Trimethylbenzene 100 6.8 m,p-Xylene 100 48.0 o-Xylene 100 7.5 **TB-10** Toluene 100 0.9 11.0-11.9 TB-12 Benzene 14 1.2 10.0-11.3 Toluene 100 1.9 m,p-Xylene 100 0.8 **TB-16** Toluene 100 1.7 9.0-10.0 m,p-Xylene 100 1.2 **TB-17** Ethylbenzene 100 58.0 11.5-12.0 m,p-Xylene 100 15.0 **TB-18** Toluene 100 1.6 10.0-10.8 m,p-Xylene 100 1.1

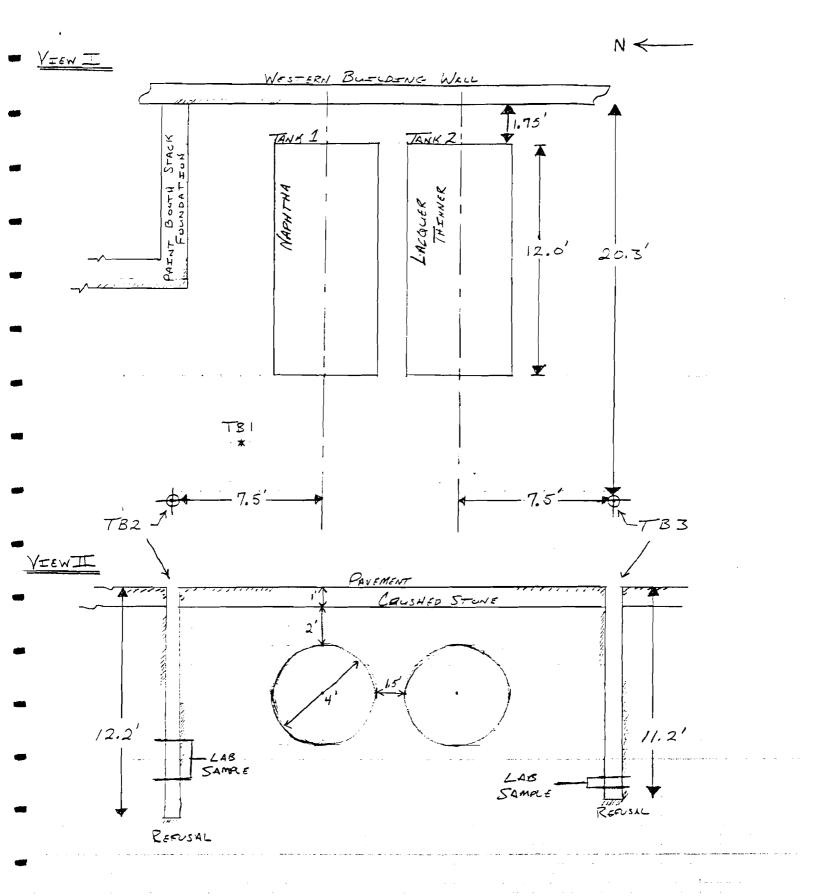
ESDNOB\1995\95L3079\TANKS.TBL

101995

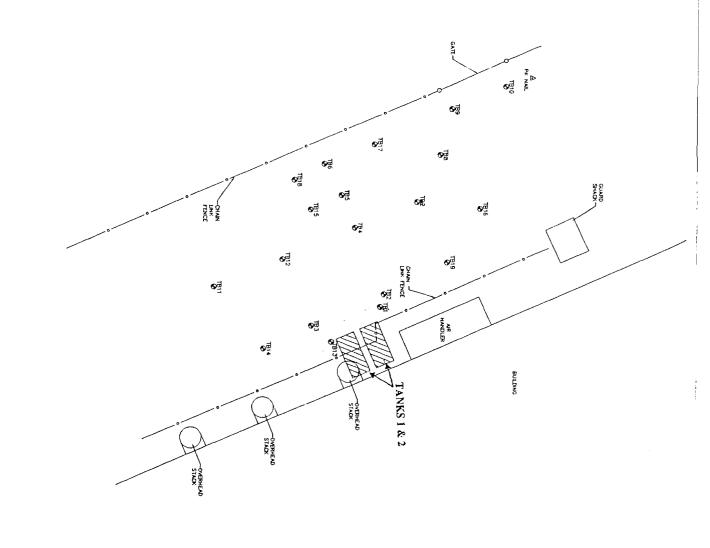
## THE GLEREON HORKS & TRNAS 1 32



FRUEE #1 (TRNK LOCATEON)



 Galson	JOB NUMBER:	GO242, TANKS #1 9 #2 (USTS) FIGURE 2							
Engineers/Architects  E. Syracuse, NY Rochester, NY	DATE: September	6, 1994		PROJECT: THE GLEASON WORKS TANK CLOSURE	PAGE /				



<b>2</b> 8	61 <u>81</u>	8181	TB17	9181	51 <b>8</b> L	1B14	เลย	1812	TB11	TB10	189	881	187	9B1	185	TB.₄	SB1	ТВ2	펿	5	
NON-DETECT	11.0-11.5	10.0-10.8	11.5-12.5	9.0-10.0	10.5-11.0	8.5-9.5	8.5-9.5	10.0-11.0	10.0-11.0	11.0-12.0	11.0-12.0	11.0-12.0	9.0-10.0	11.0-120	10.0-11.0	10.5-11.0	9.0-10.0	8.0-10.0	ABANDONED	(#)HT430	FIELD SCI
L'ABLE ECT	8	J	50	u	3	۵	200	Δ	Δ	Δ	15	200	200	۵	200	200	110	170	AT START	HNu(ppm)	SCREENING DATA
	6.9	9.5	5.7	š	8	8	6.0	ਠ	ક	₹	0.5	25.0	12.0	<u></u>	1.6	55.0	Z,	N.	N.A	CC(ppm)	ATA

BORING LOCATIONS MAP

GLEASON WORKS 1000 UNIVERSITY AVENUE ROCHESTER, NEW YORK 14607

BORING LOCATIONS/RUSSELL STREET



		CHECKED	REFERENCE
L. WATSON			
DATE	SCALE	PROJECT NO.	
9/95	1'=10'	1831-018	11801.DWG

<u>).</u>	DESCRIPTION	DATE	8Y
		_	
			] i
			—í I
			- 11
			1
			_

8 f. Martin Color Engineering & Surveying Distriction of Superior As Surveying Distriction and Association of Art 145 Sect. of the New York State (Superior Lee Propagation United Colors of Professional Colors of the Office Colors of Professional Colors of the Association of the Surveying Colors of the Surveying Color



### MICHIGAN DEPARTMENT OF NATURAL RESOURCES

PA Form 8700-22 (Rev. 9/88)

		. ~	to a				
. 7.6			T 1465	1170	181	THIC	CDACE
	·DU	NU	1 W L	11 I E	IIN .	н пла	SPACE
351.							

				•-,
1979, as	amended	and Ac	1 136.	PA.
1969		25.7		أنونو
	4 (3)	22.45	X	
Failure to				
_section 2	99.548 M	CL or S	ection	10
Act 136	PA 1969		arr the	

Failu	re to m	ie is pi	INISPADI	e under a	١
section	on <b>299</b> .	548 MC	L or Se	e under a	į
Act 1	36. P.A	1969.		The Course	

Rev. 10/92

Required under authority of Act 64, P

ATT. 🔲 縊宗DIS. 🔲 🍀 REJ. 🔲 ﷺ PŘ. 🔲 : lease print or type. Form Approved. OMB No. 2050-0039 Expires 9-30-94 Information in the shaded areas 2. Page 1 1. Generator's US EPA ID No. Manifest UNIFORM HAZARDOUS 🕏 is not required by Federal WASTE MANIFEST WED DO 2 2 0157 5 5 0 State Manifest Document Number MI 263048454 1000 UNIVERSITY AVERUE, P.O. BOX 22970 B. State Generator's:ID ROCHESTER, MY 14692-2970 4. Generator's Phone ( 715 - 73-1000 5 Transporter 1 Company Name C. State Transporter's ID 7/5762 6. US EPA ID Number D. Transporter's Phone 716 3695-6720 GROUP (NY), LEC. TO IY ID 19 18 16 19 10 13 19 10 14 Transporter 2 Company Name E. State Transporter's ID 87991ZN 9. Designated Facility Name and Site Ad PETRO-CHEM PROCESSING, INC. F. Transporter's Phone 7/6-6756 VIN91816191013196 G. State Facility's ID 421 LICASTE STREET H. Facility's Phone DETROIT, MI 48214 MIID 9 8 0 6 1 15 2 9 8 (313) 824-5840 12.Containers I. Waste 11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER). Total Unit No. HM N/H Quantity Wt/Vo RQ, HAZARDOUS WASTE, SOLID, N.O.S., 9. X Ħ NA3077, PG III (D018, D035) P 0 11 12 14 15 HAZARDOUS WASTE, LIQUID, N.O.S., 9, ь. NA3082, PG III (OIL, CONTAINS SOME Ħ 0 1 7 6 0 1,1,1 TRICHLOROETHANE) RO, WASTE PLANMABLE LIQUIDS, N.O.S., 3, C. Ħ UN1993, PG II (DOO1, DO18, NAPTHA, X D M C C 11 3 5 2 0 0 5 LACQUER THINNER) Additional Descriptions for Materials Listed Above K. Handling Codes for Wastes Listed Above SOLIDIFIED CATALYZED URETHANE PAINT (DO35) a) U35773 b/ b) U43097 USED OIL WITH H.O.C.S NYS CODES: c) UF50596 USED CLEANING SOLVENT - PLANMABLE (DOOL, DOIS. c/ D0351 15. Special Handling Instructions and Additional Information EMERGENCY RESPONSE: CALL INFOTRAC AT 1-800-535-5053. SEE ATTACHED PORMS. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Date Printed/Typed Name Month Day 101811111914 17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Month Day Signature 1/1/1919 18. Transporter 2 Acknowledgement or Receipt of Materials Printed/Typed Name Month Day Year Signature OBUBBO 19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Printed/Typed Name Signature 114

Attachment A

	PROJECT	The Gleason Works
		UST/AST Bulk Storage Closure
GALSON CORPORATION	LOCATION	1000 University Avenue
SAMPLING LOG		Rochester, New York
	-	
CLIENT The Gleason Works	」 DATE(S) <u></u>	1.5/61
CEIENI	DATE(S)	
JOB NUMBER GQ-242		<del></del>
TASK TITE	TIME(S)	
TASK		
SAMPLE I.D.:		
7 3x		
SAMPLE LOCATION: West Seek of Black	<u>0</u>	
FANKS 192 NW	/ - " Ni.e==::	1011
au. 2' x . 7.5' 1		
	<b>~</b> ' · · ·	
DEPTH: (12,2' May) Commerce Ar 1	<u> </u>	
DESCRIPTION: TOWN CHAY 8-9	T MAD	
9,	2 Jendy 129	us referred
	, B	in alberra
<u> </u>	t. / Mary V	LAV C/ GRADEC
SAMPLING METHOD USED : 1 / Sec.	· 6 ~	
7		
<del></del>		
LIST OF CONTAINERS AND AMOUNT SAMPLED:		
/// 100		
COMMENTS: HILL 170 per	<del></del>	
<del></del>		- <u> </u>
SAMPLED BY: A/		PAGE OF
MECKESSIN DEFECTION		

## GALSON CORPORATION TEST BOREHOLE / WELL LOG

PROJECT GLENCIA TENE CLORAT (TITZ)
LOCATION T32
(N. W. or News TRIVE)
DATE(S) DRILLED 8/15/91
DRILLING METHOD Acces
TOTAL DEPTH 12,2'

DRILLING CO. Piccom Wales

DEPTH	SAMPLE INTERVAL	SPOON BLOWS	OVA (ppm)	SOIL / ROCK CLASSIFICATION	PROFILE	NOTES
; =	G. 5	7		Fine Sonow/SECT  DACK BROWN  MUSCRATE SANO/GRAVEL		6 YEARS S-2: 21 pmm
2 = 3 = 3	2,0	3 4	∠î	PUDRIN SORTES CLOV TO GRAVEL SCOTMENT		H3 2-4: -1
y = = = = = = = = = = = = = = = = = = =	4.3	7 3 3 6	۷1	Brown, Clar		H.3 6-71 ; 71
6 = = = = = = = = = = = = = = = = = = =	6.0	30	<i>د</i> ا	Eron, Dame, Char		
7 8 9	5.1	16	170	13-sun clay 2-9.5' med. 9.5 sandy 1670		10-20 at Jap.  170 was at  betom of spoon  8-10' Sample Taken
(2)	ppm - parts pe soil sample he	16 r million in met ad space mea			7	415. 10-1013 : 11c pp

## GALSON CORPORATION TEST BOREHOLE / WELL LOG

PHODEOI ,		
LOCATION		
	· · ·	
DATE(S) DF	RILLED 8/5/44	
DATE(S) DE	RILLED 8/5/91 METHOD Aurac	

JOB NUMBER \_\_\_\_\_\_\_

G W DEPTH
SHEET 2 OF 2

TOTAL DEPTH DRILLING CO. Parate Water

DEPTH	SAMPLE INTERVAL	SPOON BLOWS	OVA (ppm)	SOIL / ROCK CLASSIFICATION	PROFILE	NOTES
//	10.3	15/.3	140	noting w/ med grain sand		Refusel & 10.3 6"yicld
17	12.0	75	<i>&gt;</i> 2=	LORGE ROCK FRAGMINT AT BUTTOM OF SAMALE (12.24) WET SATURATED CLAY		OVA REACTING 20 ON 6-20 SCALE, SWETCHES TO O-ZES SCALE A READ 200
14						HEADERWE 12-12.2=
\ <u>r</u>						
	ppm - parts pe soil sample he					
SAMPLING M				LOGGED BY 4.	200	NG NUMBER TB-2

	PROJECT	The Gleason Works	
041 0011 0000001471011		UST/AST Bulk Storage Closure	
GALSON CORPORATION SAMPLING LOG	LOCATION _	1000 University Avenue	
SAMPLING LOG	_	Rochester, New York	
}	_		
		/-//	
CLIENT The Gleason Works	DATE(S)	1.5/41	—
	TIME(S)	-:50	—
JOB NUMBER GQ-242 TASK T: -2	TIME(S)		
1707			
SAMPLE I.D.: TB3			
SAMPLE LOCATION: Was- of Fig	<del></del>		
•			
120KB / 92	S.W of Homes 11	ME	
2013 W	75(S		
, -			
DEPTH: $10^{\circ} - 70 \cdot 2^{\circ}$			
DESCRIPTION: CLEY DEMP			
			-
1 cm L. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	e w/ Course	<u> </u>	-
			_
-			_
SAMPLING METHOD USED:	la s.		
SAMPLING METHOD USED : Augus	The Stan		_
			_
<del></del>			•
LIST OF CONTAINERS AND AMOUNT SA	MPI En :		
EIST OF CONTAINERS AND AWOUNT SA			-
			-
			_
COMMENTS: Old : day	· 3.1 -a		
COMMENTS: 1/1/2 Aug =	go pru -		-
<del></del>			-
		-	
SAMPLED BY: A/		PAGE OF	
SAMPLED BY: NECKLOSOF SAMETER IN	<u>/</u>		

### GALSON CORPORATION TEST BOREHOLE / WELL LOG

PROJECT Grain TANK Chaires Til
LOCATION TS #3
(S.W. of TAINUES TANK)
DATE(S) DRILLED 8/5/44
DRILLING METHOD Acces
TOTAL DEPTH 11.2'

DRILLING CO. PRODER WAFE

JOB NOWBER 72000400
WELL DIAMETER
G W DEPTH NA
SHEET / OF 2

DEPTH	SAMPLE INTERVAL	SPOON BLOWS	OVA (ppm)	SOIL / ROCK CLASSIFICATION	PROFILE	NOTES
,	.5	#A 6	دا	Brown Ste- Some Conv		1' y: 45'
- - - - - - -	2 . ۵	\$- 3	_		_	Herropace , 5-2: 21
;			۷1	SCHO, MED - FONE GENERAL  GENVEL  ITHRONGH PETER OF COMENT		Coverer 3.4 Ft
4	4.0	2 14 2		AND RED BREEK] BROWN		H.S. 2-4 & 20 pp
5		4	2 I	DAMP / CLAY  6" LE BLACK / REPHAST DEBRE  1,5" LE CLAY/DAMP		H,5 4-6' : 41
6	6 / 4	7	-	CLAY, DOMP BROWN		
2 -		12	7.0	4", SAND (CORST TO MES)		DEFERENT MORRER
8	₽, o	76	-	. Dear Gravesh Coira		H.S 6-8': 30 pm
11111	ppm - parts pe soil sample he					
SAMPLING M	IETHOD ASTM D- 1	 586-67		LOGGED BY NECKLAND BEHELDELWAS		ING NUMBER

## GALSON CORPORATION TEST BOREHOLE / WELL LOG

WELL DIAMETER \_\_\_\_\_

JOB NUMBER Civ 242

G W DEPTH NA

EPTH	SAMPLE INTERVAL	SPOON BLOWS	OVA (ppm)	SOIL / ROCK CLASSIFICATION	PROFILE	NOTES
<del>ε</del> -		7		CLOV DANT LATT 6" CLEV W/GRAYEL		Share Oshia
۹		:(	110	Average UVA - Go ppm		H.S. E'-10' :250 gra
	(G. D	42		Complew for Grance	_	5-200 Occar
	10/2	75	70			
	11.0	RETICAL	]6 	Posely Serves Rek Fracinguis		4" Y=642 Refuir At 11.2"
=						Hensener II-11.2: 110gm
_			,			
-						
=	ppm - parts ne	er million in met	thane eq	uilvalents		
	soil sample he	ead space mea	suremer	its		
_						

Attachment B



### GC VOLATILE ANALYTICAL REPORT

: Gleason Works

Account # : 12021

Site : Gleason Tank Removal

Date Received: 16-AUG-94

Matrix : Soil

Date Sampled : 15-AUG-94 Method : SW846/8021 Units : UG/KG

•	Galson ID: Client ID:	L19420-1 TB3	L19420-2 TB2	QC80818 <b>94-</b> 1 METHOD BLANK
	Benzene	<140		<b>-25</b>
			<270	<25
-	n-Butylbenzene	230	<270	<25
	sec-Butylbenzene	<140	<270	<25
	tert-Butylbenzene	<140	<270	<25
	Ethylbenzene	2300	5600	<25
-	Isopropylbenzene	200	<270	<25
	p-Isopropyltoluene	<140	<270	<25
	Naphthalene	<140	<270	<25
-	n-Propylbenzene	600	<270	<25
-	Toluene	6400	<270	<25
	1,2,4-Trimethylbenzene	650	<270	<25
	1,3,5-Trimethylbenzene	750	<270	<25
-	m,p-Xylene	1600	6000	<25
	o-Xylene	680	2000	<25
	Percent Moisture (%)	9	9	NA ·
-	Dilution Factor	5	10	1
	Analysis Date	08/18/94	08/18/94	08/18/94
	Method Blank	QC8081894-1	QC8081894-1	QC8081894-1

ug - microgram mg - milligram

NR - Not Requested NS - Not Specified

L - Liter

kg - kilogram - Greater than

< - Less than

Approved by :JT

ed by .
Date :30-Au
QC by : 54
Pate : 8/30/94

Footnotes:





Client : Gleason Works

Account # : 12021

Site : Gleason Tank Removal

Date Received: 16-AUG-94 Matrix : Soil

Date Sampled: 15-AUG-94

Galson ID:

L19420-3

T15

Client ID:

Method Units

Total Petroleum Hydrocarbo 418.1

mg/kg

<70

ug - microgram mg - milligram kg - kilogram

- Greater than

NR - Not Requested

NS - Not Specified

L - Liter

< - Less than

Approved by : Mary Withrow

Date :23-AUG-94

QC by :  $\bigcirc 4$ 

Date : 8/20/104

Footnotes:



### SOIL MOISTURE ANALYSIS

LOGIN: L19420 QC BATCH: REFERENCE NUMBER: 449

Dry Weight by: CR
Date : 23-AUG-94
Time : 9:30 Wet Weight by: CR
Date : 22-AUG-94
Time : 13:00

				i			
GALSON ID	SAMPLE DESC	PAN WT (gm)	NET WT (gm)	GROSS DRY WT (gm)	NET DRY WT (gm)	% MOIST	SOLID
L19420-1 L19420-2	TB3 TB2	1.52	10.87	11.39	9.87	9.2	90.8
•							

**3**08/23/94 09:47

<sup>(</sup>net wet weight) - (net dry weight) x 100 Percent Moisture = net wet weight

### SOIL GC VOLATILE SURROGATE RECOVERY

Client : Gleason Works Login # : L19420

Level: (low/med) MED

J	T =	T			
CAMPLE NO	SMC1	SMC2	SMC3	OTHER	TOT
SAMPLE NO.	(FBZ)#	( )#	( )#	}	OUT
WEEKE STANK	======	=====	=====	=====	===
METHOD BLANK	104	}	{	H8P_08	0
TB3	27 *			H8P_08	1
TB2	41 *	}	]	H8P_08	1
l		 		. <del> </del>	l l
l				·	
					[
	<del></del>			\ <del></del>	
[					
		·	·		
			· ———		
	<del></del> ,				
<del></del>					
<del></del>			<del></del>	<del></del>	
[					
\					
		, <del></del>	<del></del>		
		. <del></del>			
					[
} <del></del>		l ——— )			]
	·	<del></del>			l —— )
	·	- <del></del> -		<del></del>	
				·	
			<del></del>		
Í					

SMC1 (FBZ) = Fluorobenzene

QC LIMITS (72-126)

page 1 of 1

FORM II-CLP

12/91

<sup>#</sup> Column to be used to flag recovery values
\* Values outside of QC limits
D Surrogate diluted out

Attachment C

GALSON (				LOCATION <u>C</u>	ks 1 4	2 Ionks	
3 NUMBER	30 7 <del>9</del>			DATE(S) DRILLI			1995
VELL DIAMETER				DRILLING METH TOTAL DEPTH DRILLING CO.	100 <u>Geo</u> 11,3 A	P2086	£57
SAMPLE INTERVAL	SPOON BLOWS	<i>¡ქ<sub>ተ</sub>/ ພ</i> (ppm)		_ / ROCK SIFICATION	PROFILE	N	OTES
ppm - parts persoil sample he	r million in met	ZI Zoc	FILL RECU BROWN MA BROWN CIA STANK CIA STANK STANK CASSEL CO	SMO (DACK)  (HUL Cup)  (CLAY Type  (2.5)	<br 2	7'-8' = 8.5-10	-~ T.

LOGGED BY

BORING NUMBER

AMPLING METHOD CEUPEURE

GALSON	CORPORATION	ON
TEST BORE	HOLE / WELL	LOG

)B NUMBER 754 30 79

₩ELL DIAMETER NA

PROJECT GLESSON Was

TANKS 1 & Z

LOCATION GLESSON WORKS

ROCHESTER NY

DATE(S) DRILLED SEPTEMBER 13 1995 935

DRILLING METHOD GEOPZOB6

TOTAL DEPTH 1111

	TOTAL DEPTH DRILLING CO.  SOIL / ROCK CLASSIFICATION  PAVE  BERRY SAUD MIX	PROFILE NOTES	
SAMPLE SPOON HAM BLOWS (PPM)	SOIL / ROCK CLASSIFICATION	PROFILE NOTES	
TIPTH INTERVAL BLOWS (PPM)	CLASSIFICATION		
2-4			
7-8 41	con Sano/Cley Mix  con that Tipe  for is-1 Gas Bluk  gust Must My	300 CN27 200 V. J/Ld	
ppm - parts per million in methane equilvale soil sample head space measurements	ents		
	GGEO BY	200000 NUMBER	+
SAMPLING METHOD LOG	GGED BY	BORING NUMBER 785	

### GALSON CORPORATION TEST BOREHOLE / WELL LOG

JB NUMBER \_ 754 30 79

PROJECT GLEASEN WERS TANES 1 \$ 2 LOCATION CLESS WORKS ROCHESTER NY

DATE(S) DRILLED SEPTEMBER 13 1995 DRILLING METHOD GEOPZOBE

RELL DIAMETER NA			DRILLING MET	iod Geo	P2086
G W DEPTH : NA			TOTAL DEPTH	12,0'	
HEET _3_ OF			DRILLING CO.	Nortun	646
SAMPLE		(mqq)		PROFILE	NOTES
INTERVAL  INTERVAL  INTERVAL  INTERVAL	3-4 4-6 6-8	(ppm)	CLASSIFICATION  3.5 FE FOROVANI  BREW DENK SLIND  MES Error Shad  From Clay  BROWN CERY TYPE  SAND MS	د ا د ا	NOTES  3-4 BAG  JAC  JAC  VILLES
ppm - parts per r soil sample head					
SAMPLING METHOD GE & PR	70BE		LOGGED BY	BORIN	vg number 786

PTH INTERVAL BLOWS (spm) CLASSIFICATION PROFILE NOTES  1 Para   2 Type  8 Special  2 Type  9 Special  2 Type  9 Special  2 Type  8 Special  2 Type  9 Special  2 Special  3 Special  3 Special  3 Special  3 Special  3 Special  3 Special  4 Special  4 Special  4 Special  4 Special  5 Special  6 Special  7 Special  6 Special  7 Special  7 Special  7 Special  7 Special  8	GALSON CORPO TEST BOREHOLE / DB NUMBER	DATE(S) DR DRILLING M TOTAL DEP DRILLING CO	ETHOD <u>Geop</u> TH 10.7 D. <u>Nothun</u> 6	MESR 13 1995 2036		
CERUPEUBF STEEL TO THE STEEL S	ppm - parts per million in met soil sample head space mea	Con Typ  Brown  Con Typ  Brown  Con Record  Con Record	Typ-	ZZ 7 3 2 PPM	1-8 Jac -9 V.4/ind Jan -10 VIJ/Lid	

SAMPLE SPOON (ppm) SOIL/ROCK CLASSIFICATION PROFILE NOTES  2  4-4  3  3-12  4-12  1-	GALSON CORPO TEST BOREHOLE / Y  DB NUMBER	RATION WELL LOG	LOCATION CC	ES 1 4 Z  EAST WI CHESTER  OD SEPTE  12.0"	mesa 13, 1995 11	15
General Services   March 1.0   2   3 - 10   1.0				PROFILE	NOTES	
FEUPEJBE DESTINATION	ppm - parts per million in me soil sample head space mea	Thane equilivalents asurements	mest 1.5"  mest 1.5"  mest 1.5"  (mest) 1.5"			

TEST BO  DB NUMBER — VELL DIAMETER G W DEPTH — HEET 6 0	NA NA	WEL	L LOG	LOCATION	CLESTER  LED SEFT  THOD GEO  H 12.0	2 Norks NY Emosa 13,1995 Eposo	
EPTH INTE	RVAL BLOWS			SIFICATION	PROFILE	NOTES	
7-8	- /I	<1 <2	Most Seen Sons / Chap Ban / Chap Ban / Chap Ban / Chap & C	·		Big VILI JA- VIN / Lub Lub / VIN	
	parts per million in met ample head space mea						

BORING NUMBER

159

SAMPLING METHOD - GEOPEUBE

SELL DIAMETER NA DRILLING METHOD Generals  SW DEPTH NA TOTAL DEPTH TOTAL DEPTH DRILLING CO.  PTH INTERVAL BLOWS (ppm) CLASSIFICATION PROFILE NOTES  SOLL FROM  TOTAL DEPTH OF CLASSIFICATION PROFILE NOTES  SOLL FROM  TOTAL DEPTH OF CLASSIFICATION PROFILE NOTES  TOTAL DEPTH OF CLASSIFICATION P	GALSON CORPORATION TEST BOREHOLE / WELL LOG	LOCATION C	CESSEL WORKS COCHESTER NY				
THE INTERVAL BLOWS (ppm) CLASSIFICATION PROFILE NOTES  STILL POPE  TO STILL POPE	ELL DIAMETER NA NA HEET 7 OF	DRILLING MET TOTAL DEPTH DRILLING CO.	HOD <u>Geo</u>	P2086	(450		
Ban Clar  Mass - West  1 Ban Clar  Mass - West  21 Ban 7-8  21 Wall of Clar Browleage 41 Val / Clab  Soli sample head space measurements			PROFILE	NOTES			
AMPLING METHOD GEOPROBE TOTAL	Ppm - parts per million in methane equilvalents soil sample head space measurements  Description of the part of th	ATTO SAND  IL  LAY Brown buly	21	·			

PROJECT GLEASEN WEB

PTH INTERVAL BLOWS (ppm) CLASSIFICATION PROFILE NOTES	GALSON CORPORATION TEST BOREHOLE / WELL LOG  B NUMBER 552 30 79  ELL DIAMETERNA W DEPTHNA HEET _\$ OF			LOCATION (3	LED SEPTHOD GEO	2 Vonks N/Y EMBR 17, 1995 P2036	1-125		
5-6 21  7-8 21  6.70 21  Most/Sac Crox Some 21  Vol. 1.3  11.3  ppm-parts per million in methane equilivalents	-P <b>T</b> H	SAMPLE INTERVAL	SPOON BLOWS	(ppm)			PROFILE	NOTES	
AMPLING METHOD GEOPRESE LOGGED BY BORING NUMBER TELL		ppm - parts persoil sample he	7 - 8  Grant July 10 - 11.	∠ı ∠ı ∠ı All	Must Shrip Must Smrip ST Smil CER. State	CLOV Som	~1	VIJ/L d	

GALSON CORPORATIONS TEST BOREHOLE / WELL  B NUMBER 552 30 79  WELL DIAMETER NA  G W DEPTH NA  IEET _9 OF		LOCATION C	ED SEPTION GOOD 11.3	2 /crks 		_
SAMPLE SPOON (PPT		_/ROCK SIFICATION	PROFILE	N	OTES	
3-4 21	Brown Sana Refisal	Sent Sent  St. Sent  Sen	<i>د</i> ا	8,5-12	-	

LOGGED BY

BORING NUMBER -

AMPLING METHOD GEOFFICEE

GALSON CORPORATION TEST BOREHOLE / WELL LOG  3 NUMBER 252 30 79 VELL DIAMETER NA V DEPTH NA EET 10 OF	LOCATION <u>Ca</u>	ED SEPTHOD GEO	2 /cnx: NY Emesa 17, 1995 P2086	
SAMPLE SPOON (PPM) CL	SOIL / ROCK ASSIFICATION	PROFILE	NOTES	
2. It have for million in methane equilvalents	Seno Gran, Saria	2-4	7 01-	
ppm - parts per million in methane equilvalents soil sample head space measurements				
AMPLING METHOD (FEOFRETE LOGGED BY	est Sence de mon	BOR	ING NUMBER 7813	

PTH INTERVAL BLOWS (APPM) CLASSIFICATION PROFILE NOTES  1.4 for 3.4 2.1 3.4 2.1  4.1.5 for 3.4 5.4  4.1.5 for 3.4  4.1.5	CI ACCIE	LOCATION <u>C.</u> Re.	ESTER WESTER  D SEFFER  OD GEOPS	MBR 14 1995 2086	- - - -
	Dpm - parts per million in methane equilvalents soil sample head space measurements	mod Sing in the Tyr- saus Charlsons	42 5	ANIMARE V. J. LAG	

TES  J 3 NUM WELL DIA  2 'V DEP' EET /	BER _ 254 AMETER _ NA TH _ NA SAMPLE	30 79 14 SPOON	WEL .	L LOG	DATE(S) DRILL DRILLING MET TOTAL DEPTH DRILLING CO.	ED SEFT HOD GEO 11.7'	2 VCTKS NY EMBGR 14 1995 PZ036	1020
PTH	INTERVAL	BLOWS		1' P-12	IFICATION	PROFILE	NOTES	
		3-4	41	2' Brown M Brown Mars Same Brown		3-4	ادا به دین ا	
	2.5° Be -> 6.5° The Samo -1/.7	10.5-11.2	< Z / L / L / L / L / L / L / L / L / L /	Black Strack Charles Dark Brand Strack CKELSIN	to gray	21	9.5-14.7 Vi-1	/ <u>i</u>

SAMPLING METHOD CHECTRUSE

LOGGED BY SENT SENTEDEMENT

BORING NUMBER 1815

GALSON CORPORATION TEST BOREHOLE / WELL LOG	LOCATION CLE	- 1 ¢	2
VELL DIAMETER NA  WELL DIAMETER NA  WAR NA  WA	DATE(S) DRILLED DRILLING METHO TOTAL DEPTH DRILLING CO	10,3	
). TH INTERVAL BLOWS (PPM) CLASS		PROFILE	NOTES
ppm-parts per million in methane equilivalents  soil sample head space measurements	-shad Stone Fill	21 3 pp	EJ-15 VIJLAS

LOGGED BY

BORING NUMBER

TB16

SAMPLING METHOD GEOPETES

GALSON CORPORATION TEST BOREHOLE / WELL LOG	LOCATION C.	ED SEFT	2 /cnxs NY mask 14 1995	1130
VELL DIAMETERNL  LY DEPTHNA  LEET _/-/ OF	DRILLING METH TOTAL DEPTH DRILLING CO.			
SAMPLE SPOON HUM (PPM)	SOIL / ROCK CLASSIFICATION	PROFILE	NOTES	
ppm - parts per million in methane equilvalents soil sample head space measurements	round  man Mest Born  sity sone  Born Sano  (min Cly)	20 han	8,5-10.5 11,5-12	

TES  B NUM  WELL DIA	BER	OLE / \			DATE(S) DE	ROCKEST	CLEASE, WORKS  ROCHESTER NY  LED SEPTEMBER 14 1995  THOO GEOPZOBE					
						00. <u>No-4</u>						
C PTH	SAMPLE INTERVAL	SPOON BLOWS	(ppm)	SOIL CLASS	- / ROCK IFICATION	PROFI	LE	NOTES				
	ppm - parts persoil sample he	7-8-70 75-70 70-70 8	Z	Bran Moise  Bran Spice  Bran S	7 S	2 pp. 2 pp. 3 pp. 3	N VICE / 1					
AMPLING ME	ETHOD G-EUFR	⊅8ε	<u>-</u>	LOGGED BY	Sensepamor	B	ORING NUMBER	TB18				
_												

PROJECT GLEASEN WERE

GALSON CORPORATION TEST BOREHOLE / WELL LOG  TOB NUMBER	LOCATION <u>C</u> c	ES / &  ENEW 6  CHESTER  OD SEF	2 /crxs N/Y Emesa 14 ,19 P2086		
SAMPLE SPOON HWA SOI	L / ROCK SIFICATION	PROFILE	NO	TES	
ppm - parts per million in methane equilvalents soil sample head space measurements	Soll  Soll		und (24 viid /2006	12-11	

LOGGED BY

BORING NUMBER

APLING METHOD CEE-PERS

Attachment D

# TABLE 2 SOIL HEADSPACE SCREENING RESULTS TANKS 1 AND 2 INVESTIGATION PROGRAM THE GLEASON WORKS

SAMPLE	SAMPLE				HIHYL.				TOTAL VO	OC' (PYM)
LOCATION	DEPTH (FT.)	DATE	BENZENB	TOLUBNE	BENZENE	M-XYLENB	0-XYLENE	UNEMOWNS*	by a.c.	by HN11
TB-4	8.5-10	9/13/95						0.07	0.07	<2
	10.5-11	9/13/95			6.30		7.40	41.50	55.20	200
TB-5	9∸10	9/13/95					0.01	0.03	0.04	<2
	10-11	9/13/95			0.22		0.09	1.16	1.47	200
TB-6	10-11	9/13/95						0.02	0.02	<2
	11-12	9/13/95			0.02		0.02	0.06	0.10	<2
TB-7	8-9	9/13/95				~ _	-	0.02	0.02	50
	9-10	9/13/95					1.90	10.00	11.90	200
TB-8	9-10	9/13/95		1				0.06	0.06	<2
	10-11	9/13/95		1	0.19			0.09	0.28	<20
	11-12	9/13/95	0.06		2.00	-	4.90	18.00	24.96	200
TB-9	9.5-11.5	9/13/95							ND	<2
	11-12	9/13/95			0.10		0.11	0.59	0.80	15
	12-12.2	9/13/95					0.02	0.48	0.50	5
TB-10	10-11	9/13/95			0.19		0.13	0.63	0.95	<1
	11-11.9	9/13/95							ND	<1
TB-11	10-11.3	9/13/95		~-			~-		ND	NS
TB-12	8.5-10.0	9/13/95							ND	NS
	10-11.3	9/13/95							NID	NS
TB-13	8.5-9	9/14/95	·		0.80		0.97	4.20	5.97	200
TB-14	8.5-9.5	9/14/95							ND	NS
TB-15	9.5-10.5	9/14/95						0.01	0.01	NS
	10.5-11	9/14/95						0.01	0.01	NS
TB-16	9-10	9/14/95				,		0.01	0.01	NS
TB-17	8.5-10.5	9/14/95							ND	NS
	11.5-12	9/14/95			0.83		1.00	3.90	5.73	NS
TB-18	8-9	9/14/95					0.02	0.11	0.13	NS
	9.5-10	9/14/95						0.05	0.05	NS
	10-10.8	9/14/95							ND	NS
TB-19	10-11	9/14/95						0.03	aæ	NS
	11-11.5	9/14/95			0.51		1.20	5.20	6.91	NS

#### NOTES:

- 1. ALL COMPOUNDS REPORTED IN mg/L OR PARTS-PER-MILLION (PPM).
- 2. ABBREVIATIONS

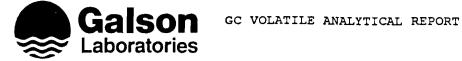
G.C. - GAS CHROMATOGRAPH

NS - NOT SCREENED.

- 4. NOT DETECTED IS REPRESENTED BOTH AS 'ND' AND '--'.
- 5. UNKNOWNS REFER TO UNIDENTIFIED NON-TARGET PETROLEUM COMPOUNDS.

GK:\WK\$24\70532-001\IABLLWK1

<b>La</b> Gaison	- :	iom <b>s</b> 1 -LCHSend	Nar	_			Ī -	•		1 Tin	ŧ	1	-		Page		_	of	/	1	
Laboratories	(,	ーレントラン	<i>I</i> V:,	lui- e	<b>)</b>					ush Service				PA	RAM	1ETE	RS F	FOR	ANA T	LYSI	s
6601 Kirkville Road East E. Syracuse, New York 1309 315-432-0506 or 800-950-09	57	ILNES .	1/2	me / Number 12 74 / TSK 2 / PROT			-I	Date requ Ph # ( Fax # (	ested by: ) )			MEK		mon a	VOA (Wes						
Send Report to: Tom Willoward					Se	end I	nvoid	e to:					773	79 6	ΊĘ	STAKI	¥				
				—							_		ر <sub>م</sub>	الأغ	36		2		Ī	1	
				_			P	.O. #					Saltis	0 A.S	Extrac	84	3				
SAMPLE ID	Date	Time	TYI du o	Grab TH	Aqueous	Soil	Other		nain of 25765-1	Custody		cord umber	8021	Smi Vars	0.73		mer H				
TB16 (9-10)	9/11			v.		Ÿ		t 1.0					1					71.54 2000 2000 2000 2000 2000			
TB10 (11-11.9)				<b>~</b>	00000	x'	5000 0		L25705-	<u> </u>	<u> Paramanan ha</u>	<u>ntissjon et intofnsy</u> rchol <u>e</u>	X	V	146495	10000 ( <u>01 )</u>	*****				<u> </u>
TB17 (11.5-12)	00000010000000			V		9		L	25705-3				×								
TB18 (10-10.8)	9/14			¥		Y.	_	L257	705-4				×								
TB 12 10-11.3)	9/13			V.		×			5705-5				X	*	X	2	٧.	} <b>Co</b>	ts	hul	drin-
TB4 (10,5-11)	**********	0 0000000000000000000000000000000000000		¥		X	í 200	·~ · ·	705-6 1	dobea	nali	Bect >	¥.	X	X	Į	eer	- 7	On	1	latur
TB19 (11-11.5)	9/14	ļ		×	_}	ž	100000	L250	205-7 5)												
_																					
							2000		<u>:::::::::::::::::::::::::::::::::::::</u>		· · · · · · · · · · · · · · · · · · ·			3699990							20000   2000,0
REMARKS: PLEMS - RUN !	STA	KS V	Cov4.	s (	ω/,	M	74	AN	o Semi-	VIA PLI	US ST	17/LJ_	To	lal C	cont	ain	ers -				
VOAs (w/merc)+Seni-Ver.	or.	ATO	المال	o i	λĘ	R	467	-	For So	MAPLE T	-B 4	. IF	'n.	41	PL	ر حی	ms	15J	Lus		
VOLUME IS TOO SMALL	:10	_045c	<del>-</del>	RU	יע	<b>S</b>	THV	V010	LA S'TA	on Th	nord	t Seni-l	1VA,	C)	n	TI	54	_	th	en	
STAMI VOAI (W/MAK) + Se	<u>mi-</u>	VO.AL	or	A				UX	TRACT	ON TE	3 19	<u>^</u>	_				TA	Nij	[M	4/	15/75
SAMPLER'S NAME: Signature Signature			_		SIC	SNAT		25	-Alis	!/		<del></del>									0
NAME: // // DA		1:5/93		A A 4 F			SAN	IPLES	RECEIVE			Custody Solitors Shipment C				nple	X				X(N.A.
SIGNATURE: 15 TILL TILL	<u>ие: //</u>	2/33	s	AME IGN	<u>AT</u> L	JRE:				DATE: TIME:		Temp ~	14	° C		TS	т `	— В	ſΩ	)Û	/m#
SIGNATURE: TII	ATE: ME:		s	AME IGN	AΤι					DATE:									ات 		_ [
	ΛТЕ: <u>М</u> Е:			ecei Signa			Labo	ratory	у Ву: —	DATE: ヿ゚゚゙゙ヷ゚゚ヿ゚ TIME: ゖゔヮ	)	Airbill #	למת	<u>L</u>	1 4	<u>\</u> _					



Account # : 12032 : Tanks 1/2 Site

Date Received: 15-SEP-95 Matrix : Soil

Date Sampled : 13-SEP-95 - 14-SEP-95 Method : SW846 8021

Units : UG/KG

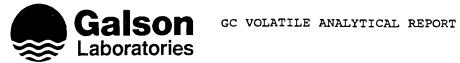
Galson ID: Client ID:	L25705-1 TB 16(9-10)	L25705-2 TB 10(11-11.9)	L25705-3 TB 17(11.5-12)
Benzene	<0.6	<0.6	<2.8
2-Butanone	<6	<5.8	<28
n-Butylbenzene	<0.6	<0.6	<2.8
sec-Butylbenzene	<0.6	<0.6	<2.8
tert-Butylbenzene	<0.6	<0.6	<2.8
Ethylbenzene	<0.6	<0.6	58
Isopropylbenzene	<0.6	<0.6	<2.8
p-Isopropyltoluene	<0.6	<0.6	<2.8
Naphthalene	<0.6	<0.6	<2.8
n-Propylbenzene	<0.6	<0.6	<2.8
Toluene	1.7	0.9	<2.8
1,2,4-Trimethylbenzene	<0.6	<0.6	<2.8
1,3,5-Trimethylbenzene	<0.6	<0.6	<2.8
m,p-Xylene	1.2	<0.6	15
o-Xylene	<0.6	<0.6	<2.8
Percent Moisture (%)	16	14	12
Dilution Factor	1	1	, 5
Analysis Date	09/23/95	09/23/95	09/26/95
Method Blank	QC80922A95-1	QC80922A95-1	QC8092595-1

ug - microgram Approved by :JT

NR - Not Requested NS - Not Specified Date :04-OCT-95 mg - milligram

OC by : friction Date : 10/5/95 kg - kilogram L - Liter - Greater than < - Less than





: 12032 Account # : Tanks 1/2 Site

Date Received: 15-SEP-95 Matrix : Soil

Date Sampled : 13-SEP-95 - 14-SEP-95 Method : SW846 8021

Units : UG/KG

Galson ID: Client ID:	L25705-4 TB 18(10-10.8)	L25705-5 TB 12(10-11.3)	L25705-6 TB 4(10.5-11)
Benzene	<0.6	1.2	<5.1
2-Butanone	<5.6	<5.6	<51
n-Butylbenzene	<0.6	<0.6	<5.1
sec-Butylbenzene	<0.6	<0.6	<5.1
tert-Butylbenzene	<0.6	<0.6	<5.1
Ethylbenzene	<0.6	<0.6	64
Isopropylbenzene	<0.6	<0.6	<5.1
p-Isopropyltoluene	<0.6	<0.6	<5.1
Naphthalene	<0.6	<0.6	<5.1
n-Propylbenzene	<0.6	<0.6	11
Toluene	1.6	1.9	7.1
1,2,4-Trimethylbenzene	<0.6	<0.6	12
1,3,5-Trimethylbenzene	<0.6	<0.6	6.8
m,p-Xylene	1.1	0.8	48
o-Xylene	<0.6	<0.6	7.5
Percent Moisture (%)	10	11	51
Dilution Factor	1	1	5
Analysis Date	09/23/95	09/23/95	09/26/95
Method Blank	QC80922A95-1	QC80922A95-1	QC8092595-1

ug - microgram mg - milligram NR - Not Requested Approved by :JT
NS - Not Specified Date :04-

kg - kilogram - Greater than

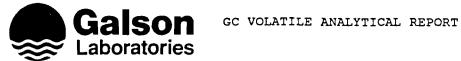
L - Liter < - Less than

Date : 04-OCT-95

QC by : # 10/5/97

Date : 10/5/97





Account # : 12032 : Tanks 1/2 Site

Date Received: 15-SEP-95 Matrix: Soil
Date Sampled: 13-SEP-95 - 14-SEP-95 Method: SW846 8021

Units : UG/KG

-	Galson ID: Client ID:	QC8092595-1 METHOD BLANK	QC80922A95-1 METHOD BLANK	
		<del></del>		
	Benzene	<0.5	<0.5	
_	2-Butanone	<5	<5	
_	n-Butylbenzene	<0.5	<0.5	
	sec-Butylbenzene	<0.5	<0.5	
	tert-Butylbenzene	<0.5	<0.5	
***	Ethylbenzene	<0.5	<0.5	
	Isopropylbenzene	<0.5	<0.5	
	p-Isopropyltoluene	<0.5	<0.5	
	Naphthalene	<0.5	<0.5	
-	n-Propylbenzene	<0.5	<0.5	
	Toluene	<0.5	<0.5	
	1,2,4-Trimethylbenzene	<0.5	<0.5	
_	1,3,5-Trimethylbenzene	<0.5	<0.5	
-	m,p-Xylene	<0.5	<0.5	
	o-Xylene	<0.5	<0.5	
	Percent Moisture (%)	NA	NA	
	Dilution Factor	1	1	
	Analysis Date	09/25/95	09/22/95	
-	Method Blank	QC8092595-1	QC80922A95-1	

Approved by :JT ug - microgram

NR - Not Requested
NS - Not Specified
L - Liter mg - milligram Date :04-OCT-95

QC by : fn & CT Date : 10/5/95 kg - kilogram < - Less than - Greater than



### 2B SOIL GC VOLATILE SURROGATE RECOVERY

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1 SAS No.:

SDG No.: L25705

Level: (low/med) LOW

	01/01		01/06		
	SMC1	SMC2	SMC3	OTHER	TOT
SAMPLE NO.	(FBZ)#	( )#	( )#		OUT
	=====	=====	======	=====	===
Method Blank-QC80922A95-	101			PID	0
TB 16(9-10)	103		}	PID	Ö
MD 10(9-10)		ſ			
TB 10(11-11.9)	92			PID	0
TB 18(10-10.8)	105		l	PID	0
TB 12(10-11.3)	107	}		PID	0
Method Blank-QC8092595-1	102			PID	0
TB 17(11.5-12)	82			PID	Ŏ
TB 4(10.5-11)	94			PID	١٥
15 4(10.5-11)	94			ודים	J
				l	
<del></del>	<del></del>				
<u> </u>					
	·				I — I
			·		
			· ———		
· — — — — — · — · — · — · — · — · — · —					

SMC1 (FBZ) = Fluorobenzene

QC LIMITS (72-126)

# Column to be used to flag recovery values
\* Values outside of QC limits
D Surrogate diluted out

page 1 of 1

FORM II-CLP

### SOIL MOISTURE ANALYSIS

LOGIN: L25705 QC BATCH: LAB GROUP: INORGANIC REF. #: 989

Wet Weight by: PL Date : 21-SEP-95 Time : 14:40

Dry Weight by: PH Date : 22-SEP-95 Time : 9:40

<b>-</b>								<del></del>
GALSON ID	SAMPLE DESC	D C T	PAN WT (gm)	NET WET WT (gm)	GROSS DRY WT (gm)	NET DRY WT (gm)	MOIST	% SOLID
25705-1 125705-2 125705-3 25705-4 25705-5 125705-6	TB 10(11-11.	NNNNN	1.00 0.99 0.99 0.98 1.00 0.98	5.14 5.80 5.35 6.43 5.72 5.01	5.34 5.96 5.71 6.77 6.08 3.46	4.34 4.97 4.72 5.79 5.08 2.48	15.6 14.3 11.8 10.0 11.2 50.5	84.4 85.7 88.2 90.0 88.8 49.5
•			.1					
•								
•								
-	·							
•								

(net wet weight) - (net dry weight) ----- x 100 Percent Moisture = ----net wet weight

\_\_)/04/95 22:35



# SEMIVOLATILE ANALYTICAL REPORT

Client : Gleason Works

Account # : 12032 Site : Tanks 1/2

Date Received : 15-SEP-95 Matrix : Soil

Date Sampled : 13-SEP-95 Method: SW846/3550/8270

Date Extracted: 20-SEP-95 Units : UG/KG

	Galson ID: Client ID:	L25705-2 TB 10(11-11.9)	L25705-6 TB 4(10.5-11)	Q-2918 METHOD BLANK	
	Naphthalene	<390	<680	<330	
	Acenaphthene	<390	<680	<330	
	Fluorene	<390	<680	<330	
	Phenanthrene	<390	<680	<330	
	Anthracene	<390	<680	<330	
	Fluoranthene	<390	<680	<330	
	Pyrene	<390	<680	<330	
	Benzo(a)anthracene	<390	<680	<330	
	Chrysene	<390	<680	<330	
-	Benzo(b)fluoranthene	<390	<680	<330	
	Benzo(k)fluoranthene	<390	<680	<330	
	Benzo(a)pyrene	<390	<680	<330	
_	Indeno(1,2,3-cd)pyrene	<390	<680	<330	
_	Dibenzo(a,h)anthracene	<390	<680	<330	
	Benzo(g,h,i)perylene	<390	<680	<330	
	Percent Moisture (%)	14	51	NA	
	Dilution Factor	1	1	1	
	Analysis Date	09/26/95	09/26/95	09/26/95	

ug - microgram NR - Not Requested mg - milligram

NS - Not Specified L - Liter kg - kilogram

< - Less than - Greater than

Approved by :PK Date :29-SEP-95

OC by : fn Ctt Date : 10/5/95





# SEMIVOLATILE ANALYTICAL REPORT

Client : Gleason Works

Account # : 12032 Site : Tanks 1/2

Naphthalene

Date Received: 15-SEP-95 Matrix : Soil

Date Sampled : 13-SEP-95 Method: SW846/3550/8270

<330

Date Extracted: 20-SEP-95 Units : UG/KG

Galson	ID:		Q-29	18GPC
Client	ID:	•	GPC	BLANK

	Acenaphthene	<330
	Fluorene	<330
	Phenanthrene	<330
	Anthracene	<330
	Fluoranthene	<330
	Pyrene	<330
	Benzo(a)anthracene	<330
	Chrysene	<330
-	Benzo(b)fluoranthene	<330
	Benzo(k)fluoranthene	<330
	Benzo(a)pyrene	<330
_	<pre>Indeno(1,2,3-cd)pyrene</pre>	<330
	Dibenzo(a,h)anthracene	<330
	Benzo(g,h,i)perylene	<330
_	Percent Moisture (%)	N.T.

Percent Moisture (%)	NA
Dilution Factor	1
Analysis Date	09/26/95

microgram ug mg - milligram

kg - kilogram - Greater than

NR - Not Requested NS - Not Specified

L - Liter < - Less than

Approved by :PK Date :29\_SEP-95 OC by : 1716 TO
Date : 10/5/95

# SOIL SEMIVOLATILE SURROGATE RECOVERY

Client : Gleason Works Login # : L25705

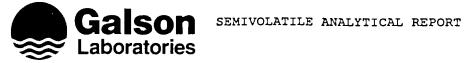
Level: (low/med) LOW

( ) #   ( ====	)# OUT ==
	0
	0
	II
	—   <del></del>
	-
	-
	<u> </u>
	<u> </u>

				QC LIMITS
S1	(NBZ)	=	Nitrobenzene-d5	(23-120)
S2	(FBP)	=	2-Fluorobiphenyl	(30-115)
			Terphenyl-d14	(18-137)
			1,2-Dichlorobenzene-d4	(20-130)

- # Column to be used to flag recovery values
  \* Values outside of QC limits
  D Surrogate diluted out

page 1 of 1 FORM II-CLP 12/91



Account # : 12032 Site : Tanks 1/2

Date Received : 15-SEP-95
Date Sampled : 13-SEP-95 Matrix : Leachate

Method: SW846/1311/8270-TCLP

Date Extracted: 20-SEP-95 Units : UG/L

-	Galson ID: Client ID:	L25705-6 TB 4(10.5-11)	Q-2933 Method Blank	Q-2933TP TCLP Blank	
	Naphthalene	<7		<7	
	Acenaphthene	<10	<8	<9	
	Fluorene	<10	<8	<9	
	Phenanthrene	<12	<10	<11	
	Anthracene	<10	<8	<9	
-	Fluoranthene	<11	<9	<10	
	Pyrene	<10	<8	<b>&lt;</b> 9	
	Benzo(a)anthracene	<12	<10	<11	
	Chrysene	<12	<10	<11	
-	Benzo(b)fluoranthene	<12	<10	<11	
	Benzo(k)fluoranthene	<12	<10	<11	
	Benzo(a)pyrene	<12	<10	<11	
_	Indeno(1,2,3-cd)pyrene	<12	<10	<11	
	Dibenzo(a,h)anthracene	<12	<10	<11	
	Benzo(g,h,i)perylene	<12	<10	<11	
-	Dilution Factor	1	1	1	
	Analysis Date	09/26/95	09/26/95	09/26/95	

NR - Not Requested NS - Not Specified L - Liter ug - microgram mg - milligram kg - kilogram < - Less than - Greater than

Approved by :PK () Date :29-SEP-95 QC by : forcek
Date : 10/5/95



### LEACHATE SEMIVOLATILE SURROGATE RECOVERY

Client : Gleason Works Login # : L25705

	·									
	SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (DCB)#	S5 ( )#	S6 ( )#	S7	S8 ( )#	TOT
-	SAMPLE NO.	(NDZ)#	(FBP)#  ======	(1PA/#	(DCB)#	(		\		===
_	Method Blank-Q-	78	74	86	68					0
	TCLP Blank	71 *	69	78	63					1
	TB 4(10.5-11)	76	72	48	64					0
#										[
					<del></del>					
	-									
-	<del></del>		<del></del>							
-		<u> </u>					 			
-	<del></del>									
						<u> </u>				
-								i		
									<del></del> i	
		<del></del>						<del></del>		
			·			<del></del>				
ļ										
ļ							·			
•										
ļ										
Ì								·		
-							-			

QC LIMITS S1 (NBZ) = Nitrobenzene-d5 S2 (FBP) = 2-Fluorobiphenyl S3 (TPH) = Terphenyl-d14 S4 (DCB) = 1,2-Dichlorobenzene-d4 S1 (NBZ) = Nitrobenzene-d5 (74-122)(56-113)(46-132)(54 - 94)

# Column to be used to flag recovery values
\* Values outside of QC limits
D Surrogate diluted out

\_age 1 of 1

FORM II-CLP



# GC VOLATILE ANALYTICAL REPORT

Client : Gleason Works

Account # : 12032 Site : Tanks 1/2

Date Received: 15-SEP-95 Matrix : Leachate Date Sampled : 13-SEP-95 Method: SW846 8021

Units : UG/L

•	Galson ID: Client ID:	L25705-6 TB 4(10.5	5-11)	QC8092795-1 Method Blank	QC8092795-1TP TCLP Blank	
	Benzene	<0.5		<0.5		
	2-Butanone	<5		<5	<5	
	n-Butylbenzene	<0.5		<0.5	<0.5	
	sec-Butylbenzene	<0.5		<0.5	<0.5	
	tert-Butylbenzene	<0.5		<0.5	<0.5	
	Ethylbenzene	4.2		<0.5	<0.5	
	Isopropylbenzene	<0.5		<0.5	<0.5	
	p-Isopropyltoluene	<0.5		<0.5	<0.5	
	Naphthalene	0.7	T	<0.5	0.8	
•	n-Propylbenzene	0.6		<0.5	<0.5	
	Toluene	0.9	T	<0.5	0.9	
	1,2,4-Trimethylbenzene	0.8		<0.5	<0.5	
	1,3,5-Trimethylbenzene	<0.5		<0.5	<0.5	
_	m,p-Xylene	3.8	T	<0.5	0.6	
	o-Xylene	<0.5		<0.5	<0.5	
	Dilution Factor	1		1	1	
	Analysis Date	09/27/95		09/27/95	09/27/95	
	Method Blank	QC8092795-1		QC8092795-1	QC8092795-1	

ug - microgram NR - Not Requested Approved by :JT

Date: 04-0CT-95
QC by: // Ltc
Date: /2/5/95 mg - milligram NS - Not Specified kg - kilogram L - Liter - Greater than < - Less than

### Footnotes:

T : Compound was also detected in TCLP blank.



# LEACHATE GC VOLATILE SURROGATE RECOVERY

Lab Name: GALSON LABORATORIES

Contract:

Lab Code: Case No.: 1 SAS No.:

SDG No.: L25705

	SMC1	SMC2	SMC3	OTHER	TOT
CAMPLE NO		SMC2	SMC3	OTHER	OUT
SAMPLE NO.	(FBZ)#	( )#	( )#		1
	#=====	=====	=====	======	===
Method Blank-QC8092795-1	100			PID	0
TCLP Blank	99			PID	0
TB 4(10.5-11)	87			PID	0
·					
	·				
	l		l <del></del>	l	
					<b> </b> ——
		l			
				]	
	l				
					l —
			-		
			_		
<del></del>	<del></del> -			<del></del>	
<del></del>	l ———				
	l ———				<b></b>
	ĺ				
					ĺ
				l <b>_</b>	
· · · · · · · · · · · · · · · · · · ·					
	l			l	ı l

SMC1 (FBZ) = Fluorobenzene

QC LIMITS (72-126)

# Column to be used to flag recovery values
\* Values outside of QC limits
D Surrogate diluted out

page 1 of 1

FORM II-CLP

Attachment E