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R-585-3-4-27 SITE INSPECTION OF A.I.W. FRANK CORPORATION PREPARED UNDER

TDD NO. F3-8402-06 EPA NO. PAD 004351003 CONTRACT NO. 68-01-6699

FOR THE

HAZARDOUS SITE CONTROL DIVISION U.S. ENVIRONMENTAL PROTECTION AGENCY

SEPTEMBER 19, 1984

NUS CORPORATION SUPERFUND DIVISION

SUBMITTED BY

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Site Name: A.I.W. Frank Corp. TDD No.: F3-8402-06

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SECTION 1

Site Name: <u>A.I.W. Frank Corp.</u> TDD No.: F3-8402-06

Betz-Converse-Murdoch, Inc. (BCM) was engaged by the law firm of Kittredge, Kaufman, and Donley to develop and implement a program of groundwater and soil investigations at the closed A.I.W. Frank site. The program consisted of installing 3 monitoring wells, analyzing groundwater samples from 5 monitoring wells (including 2 existing on-site wells), and analyzing soil samples obtained from borings at the site.

The major contaminants found in the groundwater were TCE and 1,1,1trichloroethane. The core soil samples taken indicated a consistent decrease in TCE concentration with depth. All soil samples below 6 feet exhibited TCE concentrations of less than 0.1 mg/kg (100 ppb), but the TCE in the Mid-County well (off-site well) was above 700 ppb. The PA DER recommended that continued monitoring of observations wells 1 through 5 was necessary, and that monitoring should be done on a semi-annual basis in an attempt to isolate the source and correct the problem.

The Continental Refrigerator Corporation presently owns the property and uses the facility for manufacturing refrigerators.

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SECTION 2

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2.0 THE SITE

2.1 Location

The A.I.W. Frank site is located at 717 E. Lincoln Highway (Route 30), in Exton, Chester County, Whiteland Township, Pennsylvania.

2.2 Site Layout

The site is approximately 17 acres in size. The manufacturing facility and offices are located in a building toward the front of the property, and a large warehouse complex occupies the middle portion. A shed, located east of the factory, was used to store a waste solvent tank and a number of 55-gallon drums containing liquid chemicals. Another shed, located in front of the property, is being torn down.

2.3 Ownership History

A.I.W. Frank Corporation owned the site from 1962 until the fall of 1981 when the company declared bankruptcy. The Continental Refrigerator Corporation is the present owner of the site. Continental purchased the property in October of 1983 and manufactures refrigerators at the facility.

2.4 Site Use History

During their ownership, A.I.W. Frank produced and stored styrofoam cups and plates at the site. Continental Refrigerator presently owns the property and manufactures refrigerators at the site.

2.5 Permit and Regulatory Action History

According to Frank Holmes of the PA DER Norristown office, no records of permits or regulatory actions are available.

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Site Name: <u>A.I.W. Frank Corp.</u> TDD No.: F3-8402-06

2.6 <u>Remedial Action To Date</u>

All contaminated soil was placed in 27 drums, along with approximately 20 other drums which contained ammoniated materials, solidified ink, dilute acids, and roofing materials. The drums were stored in the northwest corner of Building No. 1 (see appendix B, figure 2). All the drums are tightly sealed, stacked 4 drums high and protected from outside weather.

The small storage area in the northeast corner of Building No. 1 (marked with a large X on figure 2 in appendix B) contains a drum which is half full of PCB. This drum is tightly sealed, secured by a locked fence and covered by a roof. The area near the tin shed still contains contaminated soil, and is due to be removed from the site within a few weeks. Four underground tanks are located at the site and contain some crude oil. Continental Refrigerator is looking for a buyer for this oil.

Sampling of the monitoring wells, which is done on a semi-annual basis, was conducted on March 10, 1984, by Suburban Water Testing. The results of this sampling are not currently available.

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SECTION 3

Site Name: <u>A.I.W. Frank Corp.</u> TDD No.: <u>F3-8402-06</u>

3.0 ENVIRONMENTAL SETTING

3.1 Surface Waters

According to the U.S.G.S. Malvern 7.5 Minute Quadrangle, Valley Creek, located approximately 1,000 feet north of the site, is the nearest surface water body and is flood prone.

3.2 Geology and Soils

The facility is located on bedrock units of the Conestoga and Ledger formations. The Conestoga Formation is made up of micaceous limestone and dolomite. The Ledger Formation is made up of light gray, massive, pure, crystalline dolomite, which is siliceous in part (USDA Soil Conservation Survey, Atlas of Prelim. Geol. Quad, Maps of PA., BCM report). The soils of the site have been largely reworked or covered with asphalt and concrete foundation pads. According to the Soil Survey of Chester County and Delaware County, Pennsylvania, natural soil in the area is of the Conestoga Series. The Conestoga Series is described as deep, well drained soils developed from Micaceous limestone. The composition of these soils is silt loam to clay loam and where undisturbed, it can be up to 6 feet deep.

According to well logs from the BCM Report (appendix C - 1.5), 4-6 feet of rust colored clay was encountered north and northwest of the site, overlying gray-blue limestone. The well drilled on the west side of the site was installed in 44 feet of clay material.

3.3 Groundwaters

Based upon monitoring well logs produced by BCM, Inc., the depth to groundwater ranges from 10 to 22 feet. The groundwater flow is radial from the site, which lies on a groundwater divide. Groundwater is utilized as a potable water source in the vicinity of the site. However, the monitoring wells installed by BCM, Inc., maximum depth 50 feet, yielded little water. The 2 wells north and northwest of the site, which were installed as open borings in the limestone, yielded less than 5 gpm. The on-site monitoring well, screened through clays from 23 feet to 43 feet, yielded less than 10 gpm.

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1.0 INTRODUCTION

1.1 Authorization

NUS Corporation performed this work under Environmental Protection Agency Contract No. 68-01-6699. This specific report was prepared in accordance with Technical Directive Document No. F3-8402-06 for the A.I.W. Frank Corporation site located in Chester County, Pennsylvania.

1.2 Scope of Work

NUS FIT III was tasked to conduct a site visit and prepare a desk-top site inspection report based on the site visit, data provided by the Pennsylvania Department of Environmental Resources (PA DER) and any other available information. Using all available information NUS FIT III was also tasked to complete a Hazard Ranking System for the subject site. The HRS will be submitted under separate cover.

1.3 Summary

After a site visit was performed and the data and reports supplied by EPA and PA DER were reviewed, NUS FIT III completed a desk-top site inspection report.

The A.I.W. Frank site is located at 717 E. Lincoln Highway (Route 30), in Exton, Chester County, Pennsylvania. A.I.W. Frank had operated their facilities at the site since 1962 to produce styrofoam cups and plates. These operations ceased in the fall of 1981 after A.I.W. Frank declared bankruptcy. During their operation, A.I.W. Frank used trichloroethylene (TCE) and 1,1,1-trichloroethane (1,1,1-TCE) to clean their machinery. Based on their investigations, the PA DER believes that improper handling and disposal of solvents during the active life of the facility has resulted in groundwater and soil contamination. A groundwater monitoring program, conducted in 1982 by the PA DER, using a number of private water supply wells, determined a pattern of elevated TCE levels. These levels indicated that a source area was at or near the A.I.W. Frank site.

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There are approximately 20 domestic home wells located within a 1/4-mile radius of the site; some of which use carbon filters as a purification process for their drinking water.

The Uwchlan Township Municipal Authority has 6 wells that serve parts of Exton and West Whiteland and Uwchlan Townships. Two of these wells are located off Route 100, north of Route 30 on Shoen Road; 2 are located north of Route 30 off Woodford Road; and the other 2 are located in Downingtown off Bell Tavern Road. All wells are located within a 2-mile radius of the site and serve an estimated 4,800 residences. The West Whiteland Township Municipal Authority has 3 wells serving people in Whiteland Crest and parts of Exton. These wells are located approximately 1 mile northwest of the A.I.W. Frank site, on Swedesford Road near the entrance to the Exton Mall, and serve an estimated 1,055 residences, for a total of approximately 5,855 people served of municipal water supply in the area of the site.

3.8 Critical Environments

There are no known critical environments in the area of the site.

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SECTION 4

ORIGINAL (R.d)

Site Name: A.I.W. Frank Corp. TDD No.: F3-8402-06

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4.0 WASTE TYPES AND QUANTITIES

Presently there are 27 drums of contaminated soil stored in the northwest corner of Building No. 1. The soil itself was discovered in a pile in the middle of the floor of Building No. 1 when Continental Refrigerator obtained ownership of the site. It is not known where the soil originated. Along with the soil drums, approximately 20 other drums containing ammoniated material, chlorinated material, solidified ink, dilute acids, and roofing materials are present (see appendix C - 1.4). All the drums were stacked 4 high and placed in a corner inside the building to insure protection from the outside weather. One drum containing PCBs is stored in a small storage area on the northeast side of Building No. 1. This building is shown on figure 2 in appendix B and is marked with a large X. The storage area is locked, surrounded by a fence, and covered by a tin roof.

The area surrounding the tin shed, which was the former location of the waste solvent tank, still contains contaminated soil. Improper handling and disposal of the solvents during the active life of the facility is believed to have caused this contamination. Exact amounts of the improperly-handled wastes are not known. There are also 4 underground tanks present on the site which contain varying amounts of crude oil.

Bid proposals for the removal of all drums, the crude oil, and the contaminated soil are presently being reviewed by the Continental Refrigerator Corporation.

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SECTION 5

Site Name: A.I.W. Frank Corp. TDD No.: F3-8402-06

5.0 FIELD TRIP REPORT

5.1 Summary

On Tuesday, March 20, 1984, FIT III members James Strickland and Bruce Pluta conducted a site visit to the A.I.W. Frank site, which is presently owned by the Continental Refrigerator Corporation.

The weather during the site visit was breezy and sunny with a temperature of approximately 55° F.

5.2 Persons Contacted

5.2.1 Prior to Field Trip

Frank Holmes Solid Waste Specialist PA DER Norristown, PA 19403 215-270-1920 Herman Miron Project Manager Continental Refrigerator Corp. 717 E. Lincoln Highway Exton, PA 19341 215-524-0400

5.2.2 At The Site

Herman Miron Project Manager Continental Refrigerator Corp. 717 E. Lincoln Highway Exton, PA 19341 215-524-0400

5.3 Site Observations

- o FIT III arrived on site at 10:30 AM.
- o No HNU readings above background levels were recorded throughout the site.
- Approximately 50 drums were observed in the northwest corner of Building No.
 1; 27 of which contained contaminated soil. The remaining drums contained ammoniated material, solidified ink, dilute acids, roofing materials, and chlorinated materials. All drums were tightly sealed, stacked 4 high, and protected from the outside weather.

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o The area has limited personnel access, and the entire building is locked at night.

o The small storage area in the northeast corner of Building No. 1 contains a drum approximately half full of PCBs. The storage area is secured with a locked gate and covered by a tin roof.

- o The area near the shed, which was the former location of the waste solvent tank, still contains contaminated soil, and has no barrier to prevent direct contact.
- Four underground tanks are still present at the site and contain some crude oil. Continental Refrigerator is presently looking for a buyer for this oil.
 - o Three monitoring wells were observed. Well no. 5 contained a locked steel cap. No HNU readings above background were recorded when the cap was removed.
 - FIT III completed the site visit and departed the site at approximately 12:00
 PM.

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VEPA	SITE INSPECTION	REPORT		m	PAD004351003
SENERAL INSTRUCTIONS: C ion on this form to develop a T File. Be sure to include all ap Agency; Site Tracking (complete Sections I and III thro Centat ⁱ ve Disposition (Section propriate Supplemental Report System; Hazardous Waste Enfo	ough XV of this form II). File this form is in the file. Subm procement Tack Ford	m as completely in its entirety i nit a copy of the ce (EN-335); 40	as possible n the region forms to: 1 1 M St., SW;	e. Then use the informa- tal Hazardous Waste Log U.S. Environmental Pro- Washington, DC 20460.
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PARER INFORMATION E James Stricklad . PRINCIPAL INSPECTOR INFO . NAME James Strickland . ORGANIZATION NUS CORPORATION FIT I . INSPECTION PARTICIPANTS I. NAME Bruce Pluta Frank Holmes Herman Miron . SITE REPRESENTATIVES INT I. NAME Herman Miron	III. INSPEC RMATION III 2.0 NUS Corporation PA DER, Norristo Continental Refri ERVIEWED (corporate officiale, 2. TITLE & TELEPHON) Project Manager 215-524-0400	2. MEDIUM 2. TELEPHON 215-68 TION INFORMATIO 2. TITLE 2. TITLE Enviro RGANIZATION FIT III OWN Office igerator Corp. Workers, residents) E NO. Contin 717 F	Dental Refri	chnician 4. TELS 21 21 3. ADORESS gerator (wy. Exto	е (mo., day, & yr.) cch 21, 1984 ерноне но. (area code & no . тецерноне но. 5-687-9510 5-270-1920 5-524-0400 s Corp. on, PA

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	<u><u><u></u><u></u><u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u></u></u>	INSPECTION INFORMATIO	ON (continued)	
D. GENERATOR INFORMATION	(cources of waste)		4000E\$\$	
T. NAME	2. IELEPHONE	3.	. AUURE33	4. WAD IE TYPE GENERATE
A.I.W. Frank	215-524-04	00 717 E. Lincol	n Hwy., Exton PA	TCE, 1,1,1-TCE
	1			
	j			
	i i			
		· · · · · · · · · · · · · · · · · · ·		
. TRANSPORTER/HAULER IN	FORMATION			
1. NAME	2. TELEPHONE N	3	. ADDRESS	4.WASTE TYPE TRANSPORT
N/A			,	
·····			· · · · · · · · · · · · · · · · · · ·	
			·····	
	1.		H	
	L			
. IF WASTE IS PROCESSED O	N SITE AND ALSO	SHIPPED TO OTHER SITES,	IDENTIFY OFF-SITE FACILI	TIES USED FOR DISPOSAL.
1. NAME	2. TELEPHONE N	10.	3. ADDRESS	·····
NT / 8				
N/A	í ·			
·			,	
DATE OF INSPECTION	H. TIME OF INSPE	CTION I. ACCESS GAINED	BY: (credentials must be show	n in all cases)
(mo., day, & yr.) March 20, 1984	· 1030 ł	IS. X. 1. PERMISSIO	N 2. WARRANT	
. WEATHER (describe)	<u></u>			
Clear, breezy, temp	eratures abou	it 55°F.		•
		IV. SAMPLING INFOR	MATION	
Mark 'X' for the types of a	samples taken and	indicate where they have t	oeen sent e.g., regional lab	, other EPA lab, contractor,
etc. and estimate when the	e results will be a	vailable.		
I.SAMPLE TYPE	2.SAMPLE TAKEN	3.5	SAMPLE SENT TO:	4.DATE Results
	(mark 'X')			AVAILABLE
. GROUNDWA TER		No FIT III co	mnling was done	
			inipiling was dolle.	
b. SURFACE WATER	ł	Sampling do	ne by Betz-Converse	-Murdoch Inc
······································	l		propontly available	
		Results are	Diesentiv avaname	
C. WASTE		Results are	presently available.	•
C. WASTE	· · ·	Results are		•
C. WASTE		Results are	presentiy available.	•
C. WASTE	·		presentiy available.	•
C. WASTE d. AIR e. RUNOFF				•
c. WASTE d. AIR e. Runoff é. Spill			presentiv available.	•
C. WASTE d. AIR e. RUNOFF L SPILL	·		presentiy available.	•
C. WASTE d. AIR e. RUNOFF L SPILL g. SOIL				·
C. WASTE d. AIR e. RUNOFF f. SPILL g. SOIL	X			•
C. WASTE d. AIR e. RUNOFF f. SPILL g. SOIL h. VEGETATION	X			·
C. WASTE d. AIR e. RUNOFF f. SPILL g. SOIL n. VEGETATION L. OTHER(specify)	X		presentiy available.	·
C. WASTE d. AIR e. RUNOFF G. SPILL G. SOIL T. VEGETATION . OTHER(epecify)	X			·
C. WASTE d. AIR e. RUNOFF f. SPILL g. SOIL t. VEGETATION I. OTHER(specify) I. FIELD MEASUREMENTS TA	X X KEN (e.g., <i>i</i> adioacti	Results are		·
C. WASTE d. AIR e. RUNOFF f. SPILL g. SOIL h. VEGETATION I. OTHER(epecify) I. FIELD MEASUREMENTS TA 1. TYPE	X KEN (0.g., radioacti 2. LOC	vity, explosivity, PH, etc.)		3. RESUL TS
C. WASTE d. AIR e. RUNOFF f. SPILL g. SOIL 1. VEGETATION I. OTHER(epecify) I. FIELD MEASUREMENTS TA 1. TYPE	X X KEN (0.g., <i>i</i> adioacti 2. LOC	Ivity, explosivity, PH, etc.)		3. RESUL TS
c. WASTE d. AIR e. RUNOFF f. SPILL g. SOIL h. VEGETATION 1. OTHER(epecify) 3. FIELD MEASUREMENTS TA 1. TYPE HNU	X KEN (0.g., <i>iadioacti</i> 2. Loc throug	Results are kesults are vity, explosivity, PH, etc.) ATION OF MEASUREMENTS whout the site	No readings a	3.RESULTS
c. WASTE d. AIR e. RUNOFF f. SPILL g. SOIL h. VEGETATION I. OTHER(specify) 3. FIELD MEASUREMENTS TA 1. TYPE HNU	X KEN (•.g., radioacti 2. LOC throug	Results are vity, explosivity, PH, etc.) ATION OF MEASUREMENTS ghout the site	No readings a	3.RESULTS bove background levels
c. WASTE d. AIR e. RUNOFF f. SPILL g. SOIL h. VEGETATION l. OTHER(epecify) 3. FIELD MEASUREMENTS TA 1. TYPE HNU Mini alert	X KEN (o.g., fadloacti 2. Loc throug throug	Results are kesults are vity, explosivity, PH, etc.) Ation of measurements whout the site whout the site	No readings a	3.RESULTS bove background levels
c. WASTE d. AIR e. RUNOFF f. SPILL f. SOIL h. VEGETATION I. OTHER(epecify) I. FIELD MEASUREMENTS TA I. TYPE HNU Mini alert	X X KEN (0.g., radioacti 2. Loc throug throug	Results are Results are ivity, explosivity, PH, etc.) ATION OF MEASUREMENTS ghout the site ghout the site	No readings a	3.RESULTS bove background levels above background levels
c. WASTE d. AIR e. RUNOFF f. SPILL f. SOIL h. VEGETATION I. OTHER(epecify) I. FIELD MEASUREMENTS TA 1. TYPE HNU Mini alert	X KEN (•.g., radioacti 2. Loc throug throug	Results are Results are ivity, explosivity, PH, etc.) ATION OF MEASUREMENTS ghout the site ghout the site	No readings a No readings a	3.RESULTS bove background levels above background levels
c. WASTE d. AIR e. RUNOFF f. SPILL g. SOIL h. VEGETATION I. OTHER(epecify) 3. FIELD MEASUREMENTS TA 1. TYPE HNU Mini alert	X KEN (•.g., radioacti 2. LOC throug throug	Results are Results are vity, explosivity, PH, etc.) ATION OF MEASUREMENTS ghout the site ghout the site	No readings a No readings a	3.RESULTS bove background levels above background levels

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Continued From Page 2			_			
		IV. SAMPLING INFOR	MA	TION (continued)		
TYPE OF PHOTOS		2. PHOTOS IN		USTODY OF:		
		Needer				
SIT PED?				t by NUS FIT III		
X YES. SPECIFY LOCATION	ŌF	MAPS: NUS FIT	II	I Site Inspection Report		
. COORDINATES	•	•		LONGITUDE (degmin-sec.)		
			1			•
40° 01' 50"				<u>75° 36' 04"</u>		
SITE STATUS		V. SITE INFO	DR.	MATION		
1. ACTIVE (Those inductrial a municipal sites which are being us for waste treatment, storage, or di on a continuing basis, even if infr quently.)	or ied spos e-	x 2. INACTIVE (Those sites which no longer receive wastes.)		3. OTHER (specify) (Those sites that include such inc. where no regular or continuing use has occurred.)	idei of	nts like ''midnight dumping'' the site for waste disposal
. IS GENERATOR ON SITE?		······	1			
X 1. NO 2. YES(sr	eci	fy generator's tour-digit SIC Code):		· · · · · · · · · · · · · · · · · · ·		
. AREA OF SHE (IN ACTOS)		U. ARE THERE BUILDINGS O	N	Int SILES	7	monufocturinglaff
17 acres		building, and 2 sm	al	l sheds.	, 1	manufacturing/office
		VI. CHARACTERIZATIO	N	OF SITE ACTIVITY		
idicate the major site activity(es)) and details relating to each ac	tiv	ity by marking 'X' in the approp	pri	ate boxes.
A. TRANSPORTER	X X	B. STORER	×.	C. TREATER	' X'	D. DISPOSER
1.RAIL	1	1.PILE		1. FILTRATION		1. LANDFILL
2. SHIP	+	2. SURFACE IMPOUNDMENT	-	2. INCINERATION		2. LANDFARM
3. #	x	3. DRUMS		3. VOLUME REDUCTION		3. OPEN DUMP
4. T.	x	4. TANK, ABOVE GROUND		4. RECYCLING/RECOVERY		4. SURFACE IMPOUNDMENT
S. PIPELINE		5. TANK, BELOW GROUND		5. CHEM./PHYS./TREATMENT		5. MIDNIGHT DUMPING
6. OTHER (specify):		6.OTHER(specify):		6. BIOLOGICAL TREATMENT		6. INCINERATION
-				7. WASTE OIL REPROCESSING		7. UNDERGROUND INJECTION
·				8. SOLVENT RECOVERY		8. OTHER (specify):
•				9. OTHER (specify):		
						•
•						
SUPPLEMENTAL DEPORTS. W		site falls within any of the astern		a listed below. Supplemental Peror	1.0	must be completed Indicate
which Supplemental Reports you	have	e filled out and attached to this for	••	·		
1. STORAC.	2. 11	NCINERATION 3. LANDFIL	- 1-	4. SURFACE	5.	DEEP WELL
G. CHEM/BIO/	7.L	ANDFARM 8. OPEN DU	İMI	9. TRANSPORTER] 10). RECYCLOR/RECLAIMER
•		VII. WASTE RELAT	ED	INFORMATION		
WASTE TYPE						
X 1. LIQUID	2. S	SOLID 3. SLUDGE	-	4. GAS ·		
WASTE CHARACTERISTICS		<u></u>		······································		، المحمد بين المحمد ا لم
	2. 1		ידב	VE - 4. HIGHLY VOLATILE		
	6. 5	REACTIVE 7. INERT	~ • •	B. FLAMMABLE		
			;			
9. OTHER (specify):	sc	olvents				
WAST ATEGORIES	> S	pecify items such as manifests. inv	/en	tonies, etc. below.		
	. 5		••	·, ···· · ····	,	,
Yes, Continental Refri	ge	<u>rator Corp invento</u> ry	of	drums		
A Form T2070-3 (10-79)		PAGE	3 (DF 10		Continue On Reverse

Ca	ntinued From Front	: 							بالتريف الأفري		· · · · · · · · · · · · · · · · · · ·			
		<u> </u>	/ <u>п.</u> w	ASTE F	ELAT	TEDIN	FO	RMATIO	N (cor	ntinued))			
2.	Estimate the amou	nt (specify unit of r	neasu	ire) of v	aste t	by cate	gory	r; mark	'X' to	indical	te which waste	es are pi	resent.	
AM	QUNT	AMOUNT		HOUNT	VENT		AM	IOUNT			MOUNT		AMOUNT	
		Unknown		-150		,		25			27	1		
UN	T OF MEASURE	UNIT OF MEASURE			MEAS	IRE	UN	IT OF M	EASUR		NIT OF MEASU	JRE	UNIT OF ME	SURE
				gallo	ns			gallo	ns		55 gallon d	trums		
×	DIGMENTS	X' OILY WASTES	· ×	(1, HAL	OGEN VENT	ATED	• × •		s.	×	(1) FLYASH		(1) LABOR	ATORY. ACEUT.
	(2) METALS Sludges .	(2) [°] OTHER(epecil	'y):	(2) NON	I-HALC	одито <u>.</u> 5		(2) PICK	LING		(2) ASBESJÓS	S	(2) HOSPIT	AL
1	(3) POTW		F	(3) O T.)	ER(#p	ecily):		(3) C A U S	TICS		(3) MILLING	MINE	(3) RADIOA	CTIVE
-	(4) SLUDGE							(4) PEST	ICIDE	s .	(4) FERROUS	SMELT. ES	(4) MUNICI	PAL
	(5) O THER (epecify):						x	(5) DYES	/INKS		(5) NON-FERI	ROUS ASTES	(5) OTHER	(specify)
				, . .		•		(6) C Y A	NIDE	+-	X (6) OTHER (32	ecity):		
						-		(7) PHE	NOLS		TCE cor	ntarnir	ated	
,	•						-	(8) HAL	ÓGENS		80118			•
							x	19) PCB			. ,			
				,	а. I	a nar talara		(10) ME	TALS			· ·		
					• • • •			(1),07	HER(35	ecify)				
									•	}	· .			
٥.	LIST SUBSTANCES	OF GREATEST CONC	CERN	WHICH	ARE O	N THE	SITE	E (place	in desc	ending	order of hezerd)	·····	<u></u>	
				2. FORM 'merk 'X	')	3.	TO) (mar	xicity k 'X')]
	1. SUBST	NCE	1.50 LID	Liq.	C.VA POR	A. HIGH	Ъ. МЕ	с. . Low	d. None	4. CA	S NUMBER	5. A	.MOUNT	6. UNIT
I	PCB			x		x				1109	97-69-1	25 g	allons	
t	richloroethyle	ne	 	x	ļ		x	:		79-0)1-6		<u>unknown</u>	
1	,1,1-trichlore	thane	ļ	x	ļ	 	X	:		71-5	5-6	ļ	<u>unknown</u>	
2	mmoniated ma	aterial		<u> </u>	ļ			x		unkr	lown	ļ	unkrown	ļ
<u> </u>	hlorinatedmat	erial		x	·			x		unkr	iown		unknown	ļ
s	olidified ink		x		. 				_X	unkr	Iown	ļ	unknown-	ļ
I	oofing materia	al	x		<u> </u>				x	unkr	lown		unknown_	<u> </u>
	•												·····	<u> </u>
-				V	ш. нд	LARD	<u>. DE</u>	SCRIPT			Ab = 11 = 4 = 1		Decasily	
h	azard in the space p	provided.	u r 119	UN: PI			ne		indica	ite that	the listed haz	aru exis	Sis. Describ	- ule
	XI A. HUMAN HEAL	TH HAZAROS												

TCE and 1,1,1-TCE found in home well samples near the site.

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Continued From Page 4
VIII. HAZARD DESCRIPTION (continued)
B. NON-WORKER INJURY/EXPOSURE
C. WORKER INJURY/EXPOSURE
C. WORKER INJURY/EXPOSURE
None known.
Documented to exist in some nearby private water supply wells (Betz-Converse-Murdoch, Inc., Hydrogeologic Report, April, 1983).

E. CONTAMINATION OF FOOD CHAIN

None known or reported.

X F. CONTAMINATION OF GROUND WATER

Documented to exist both on and off site. (Betz-Converse-Murdoch, Inc., Hydrogeologic Report, April, 1983).

G. CONTAMINATION OF SURFACE WATER None known.

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Continued From Front

·/···	VIII. HAZARD DESCRIPTION (continued)
H. DAMAGETO FLORA/FAUNA	
. :	
None known or expected.	
	· · · · · · · · · · · · · · · · · · ·
	n na sana ang kana an
None known or expected.	
	· · · ·
J. CONTAMINATION OF AIR	
None known or expected	
mone known of expected.	
:	
K. NOTICEABLE ODORS	
	· · · ·
None observed.	
· .	
L. CONTAMINATION OF SOIL	
Core soil samples taken by E	Setz-Converse-Murdoch Inc. indicate some contamination
is present on site (April, 198	3).
M. PROPERTY DAMAGE	
None known or expected	
none known of expected.	•
	•

	VIII. HAZARD	DESCRIPTION (cont	inued)	
N. FIRE OR EXPLOSION				
None known.		-	· .	
			•	· · · · · · · · · · · · · · · · · · ·
·				·
	· · · · · · · · · · · ·	· · · -	an a	
•			• • • • •	
0. SPILLS/LEAKING CONTAINER	S/RUNOFF/STANDING L	10010	and the second	
Improper handling and dis resulted in groundwater a June 29, 1983).	sposal of solvents and soil contamin	during the activ ation to a limite	e life of the facility has ed degree (PA DER report	,
,				
,			· · · · · · · · · · · · · · · · · · ·	
A P. SEWER, STORM DRAIN PROBL	EMŞ	· · · · · · · · · · · · · · · · · · ·		<u></u>
Possible sources of contain and the septic system (PA	mination on site n A DER report, Jun	nay include unde e 20, 1983).	erground tanks, floor drain	IS,
	••••••	··· · · · ·	•	
			. •	
			·	
	·			
	-			
ROSION PROBLEMS	· · · ·			
ROSION PROBLEMS				
None observed.	· · · ·			
None observed.	· · · · ·			,
None observed.	· · ··			
None observed.	· · ·	•		
None observed.	· · ··			
None observed.	· · ··			
None observed.				
None observed.	cked warehouse.		•	. Y
None observed.	cked warehouse.			,
None observed.	cked warehouse.		•	. Y
None observed.	cked warehouse.			,
None observed.	cked warehouse.			· ·
None observed.	cked warehouse.			Υ.
None observed.	cked warehouse. stored in drums al	ong side of spen cident causing a	t acids. By not segregatin violent reaction.	ng these
None observed.	cked warehouse. stored in drums al	ong side of spen cident causing a	t acids. By not segregatin violent reaction.	ng these
None observed.	cked warehouse. stored in drums al	ong side of spen cident causing a	t acids. By not segregatin violent reaction.	ng these

T. MIDNIGHT DUMPING						
None known or expected.						
· .						
U. OTHER (apocify):	- <u></u>			·····	 	
N/A						
		1				
· · ·						
			•			
					,	
•						
				•		
IV PO	PULLATION DIRE	CTLY AFEEC	TED BY SITE		<u></u>	

VIII. HAZARD DESCRIPTION (continued)

	IX. POPULATION DIRE	CILY AFFECTED BY SIT	E	
A.LOCATION OF POPULATION	B.APPROX. NO. Of People Affected	C. APPROX. NO. OF PEOP AFFECTED WITHIN UNIT AREA	LE D. APPROX. NO. OF BUILDINGS AFFECTED	E. DISTANCE TO SITE (specify units)
I.IN RESIDENTIAL AREAS	380	380/ 1/2 mile	100	1/2 mile
2. IN COMMERCIAL 2. OR INDUSTRIAL AREAS	250 .	250/1/4 mile	12	1/4 mi.
S' TRAVELLED AREAS	Route 30	well travelled hy	vy	50 ft
4. PUBLIC USE AREAS (perks, schools, etc.)	500	500/1/2 mile	8	1/2 mile
	X. WATER A	ND HYDROLOGICAL DATA	•	
A. DEPTHITO GROUNDWATER(#p+c) 12 to 14 feet	Ify unit) B. DIRECTION OF F	FLOW C	c. groundwater use in private wells	VICINITY
D. POTENTIAL YIELD OF AQUIFER	E. DISTANCE TO DE (specify unit of m	RINKING WATER SUPPLY F asure) 100 feet	DIRECTION TO DRINKI	NG WATER SUPPL
G. TYPE OF DRINKING WATER SUP	PLY		······································	
A 1. NON-COMMUNITY	2. COMMUNITY (specify town): > 15 CONNECTIONS			<u>,</u>
3. SURFACE WATER	4. WELL ,			

ontinued From	Page 8						والمتعادية فالجريبين جريبة
			X. WATER AND HYDROLOGICAL DAT	A (c	continued)		
. LIT L DRIN	KING WA	TEF	R WELLS WITHIN A 1/4 MILE RADIUS OF SITE		• • • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·	
1.	2. Di (specif	EPTI yun	H 3. LOCATION (proximity to population/b	uildi	nga)	NON-COM- MUNITY (mark 'X')	COMMUN-
J. D'ambusi	o un	knc	wn 117 E. Lancaster Pike, Paoli, 1	<u>PA</u>	19301	x	
Farm Schl.	unkn	low	n Rt. 30 Exton, PA			x	
& James			Rt. 30 and Ship Road			x	
'Inform	ation f	ora	approximately 17 other wells is not av	ail	able		
OF OF WALLS WALL							
I. NAME	ER		2. SEWERS 3. STRE	: AMS	RIVERS		
Valley Cree	k	•	4. LAKES/RESERVOIRS S. OTHI	ER(.	pecity):		
6. SPECIFY USE	AND CLA	SSIF	FICATION OF RECEIVING WATERS				
Intermittent	: strea	m	- no known use.				•
			XI. SOIL AND VEGITATION D	ATA	<u> </u>		
OCATION OF SIT	E IS IN:						
A. KNOWN F	AULT ZO	NE	B. KARST ZONE C. 10	0 Y I	EAR FLOOD PLAIN	D. WETLAND	· ·
REGUL	ATED FL	.000	WAY F, CRITICAL HABITAT X G. R	ECH	ARGE ZONE OR SOLE SOUR	CE AQUIFER	
Mark	ate the t	ype((s) of geological material observed and specify wh	iere	necessary, the component	parts.	
X A. GVERBUR	DEN	'x' x	B. BEDROCK (specily below)	X ·	C. OTHER (*p*	city below)	
t. SAND	•	x	Impure limestone and dolomites	x	silt loams		
X 2. CLAY	,				•		
3. GRAVEL							
			XIII. SOIL PERMEABILIT	Y			
A. UNKNOWN	E (10 to .	1 c#	B. VERY HIGH (100,000 to 1000 cm/sec h/sec.) E. LOW (.1 to .001 cm/sec.)	z.)	C. HIGH (1000 to 10 ca	m/sec.) 0.00001 cm/se	•c•)
X 1. YES	2. NO		3. COMMENTS				
H. DISCHARGE AF	χ 2. ΝΟ		3. COMMENTS:	<u> </u>			
1. ESTIMATE % O	FSLOPE	:	2. SPECIFY DIRECTION OF SLOPE, CONDITION O	FSL	OPE, ETC.		
3 to 8 per	Cent	ATA	north			••••••••••••••••••••••••••••••	
N/A						· .	
			, · · ·		•		
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Int Affrequencies permits held by the site and provide the related information. P. Int Completion. Intermediate permits held by the site and provide the related information. D. DATE ISUED D. DATE (moder.4x7) F. Int Completion. Intermediate permits held by the site and provide the related information. D. DATE (moder.4x7) E. EXPIRATION F. Int Completion. Intermediate permits held by the site and provide the related information. D. DATE (mod.4x7) DATE (mod.4x7) Intermediate permits is superimediate permits is permits is superimediate permits is permits is superimediate permits permits is permits is permits is permits is permits permits is permits permits is permits			XIV. PERMIT INFO	RMATION				
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on the first page of this form.	NOTE: Based on the info on the first page	ormation in Secti of this form.	ions III through XV, fil	ll out the Tentat	ive Disposition (Section	<i>II)</i> info	ormation



APPENDIX A

ORIGINAL

1. COST CENTER: 2. NO. : **REM/FIT ZONE CONTRACT TECHNICAL DIRECTIVE DOCUMENT (TDD)** F3-8402-06 ACCOUNT NO .: 3. PRIORITY: 4. ESTIMATE OF 5. EPA SITE ID: 6. COMPLETION DATE: 7. REFERENCE INFO .: **TECHNICAL HOURS:** 180 XYES NO П нісн 5A. EPA SITE NAME: 4A. ESTIMATE OF X MEDIUM XATTACHED SUBCONTRACT COST: AIW Frank LOW PICK UP 3/24/84 Perform desk top SI for subject site. 8. GENERAL TASK DESCRIPTION: ___ . 10. INTERIM . 9. SPECIFIC ELEMENTS:____ DEADLINES: 1.) Conduct a site visit and prepare a desk top SI. 2.) Contact DER to update status of clean-up activity. 3.) Prepare HRS based on DER data attached to 11/22/83 PA and any more recent available information. 4.) Look into PCB clean-up activity mentioned in Company proposals attached to PA. 11. DESIRED REPORT FORM: FORMAL REPORT LETTER REPORT FORMAL BRIEFING OTHER (SPECIFY): ____ 12. COMMENTS: ____ 13. AUTHORIZING RPO: 14. DATE: (SIGNATURE) 15. RECEIVED BY: 16. DATE: ACCEPTED WITH EXCEPTIONS CCEPTED REJECTED (CONTRACTOR RPM SIGNATURE)

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APPENDIX B

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APPENDIX C - 1.1

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COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES 1875 New Hope Street Norristown, PA 19401 215 631-2420



June 20, 1983

Mr. Bob Hernan c/o Kittredge, Kaufman, Donley Attorneys at Law 121 South Broad Street Philadelphia, PA 19107

Re: AINE Property Hydrogeologic Investigation West Whiteland Township Chester County

Dear Mr. Herran:

This office has reviewed the above referenced hydrogeologic report and offers the following comments:



The solvent loading and storage area is but one of the possible sources 1. of contamination on site. Others include underground tanks, floor drains and the septic system. Each should be investigated.

- 2. The entire plant property is suspect at this point, not only the drum storage areas. The investigation should cover all facilities within property boundaries and any available information concerning plant operations and design should be provided.
- 3. The well situated at the auto repair shop provides water for surrounding facilities including the Central Penn Bank. Originally, it was suspected that the bank had its own water supply system. The sample from the bank was unknowingly taken after passage through a carbon filter. Results indicate the break through of hydrocarbons (TCE-317 ppb) and, therefore, the filter should be replaced. This condition should be made known to the bank manager.
- 4. The source of contamination in Well No. 3 is most likely within the site boundaries. The presence of significant concentrations of 1,1,1-trichloroethene can not be explained by the various theories presented in this report.
- 5. The AIMS plant may not be the primary source of contamination, but is one of a number of potential sources in the region. Other likely sources include the parcel of land inmediately to the west of the facility and the Mid-County Mustang Shop as evidenced by sample results.

- 6. Improper handling and disposal of solvents during the active life of the facility has resulted in groundwater and soils contamination to a limited degree and, therefore, the present and future owners of this site will probably be liable for any past activities which resulted in pollution.
- 7. The report suggests that the ultimate source of contamination is off site as evidenced by elevation concentrations of trichloroethene in the Mid-County well, and that a localized reversal in the groundwater flow gradient occurred drawing a plume of contamination within the site as a result of the pumping of well No. 5. Well No. 5 was used for drinking and process water during the active life of the plant, and yielded between 50 to 100 gallon per minute. If this was, indeed, the case, the resulting well interference would have caused a substantial reduction in yield in adjacent private and industrial supplies. Pumping at this rate for prolonged periods of time would have produced a cone of depression with a radius on the order of a few hundred feet. There is no evidence which suggests that this had occurred.
- 8. Existing on site contamination of both soils and groundwater should be controlled or mitigated. A viable remedial plan which includes a schedule for clean up activities should be provided.
- 9. Continued monitoring of monitoring wells 1 through 5 is necessary. The wells could be sampled on a semi-annual basis for the immediate future unless incoming results indicate a change in sampling frequency is necessary. In succeeding years, sampling could alternate between spring-fall and summer-winter months. Analyses of samples can be limited to the TCE series. Off site wells, such as Apple Industries and Mid-County should also be sampled on a periodic basis.
- 10. Specifically, the clean up plan should address the following:
 - a. Removal of contaminated soils,
 - b. sampling of drums for chlorinated hydrocarbons and PCB's,
 - c. removal of the druns,
 - d. investigation and possible removal of underground tanks.
- 11. Information in the form of blueprings, schematic diagrams of the existing piping system, floor drains, tanks, sumps, etc. should be provided in order to expedite review and investigation of possible sources of contamination.
- 12. Due to possible adverse health effects, a schedule should be developed for the periodic replacement of carbon filters at the Mid-County well. Filters should be replaced before breakthrough of contaminants occurs.

Mr. Bob Hernan June 20, 1983 - 3 -

- 13. The hydrogeologic study should discuss the following:
 - a. Rates of infiltration and recharge,
 - b. rate of groundwater flow,
 - c. degree of attenuation, dilution and dispersion of contaminants in the soil and groundwater,
 - d. a fracture trace study in the form of photographic evaluation,
 - e. structural geology and the possible influence on groundwater movement,
 - f. the presence of perched and/or shallow groundwater tables,
 - g. dynamics of groundwater flow to carbonate bedrock and overburden deposits.
- 14. It seems unlikely that a remnent of the reversal in the groundwater table gradient would remain 1½ to 2 years after pumping of well No. 5 ceased, especially since bedrock consists of moderately permeable impure limestone/dolomite.
- The concentration of 1,1,1-TCE is higher than than of TCE in well No. 2. In the Mid-County well, the reverse is true. This was not explained.

The facility may not be the only contributor to soil/groundwater contamination, but certainly must accept limited responsibility for the problem. The presence of elevated concentrations of 1,1,1-TCE and TCE is explained by a number of processes in the report:

- a. Groundwater table gradient reversal via a pumping well,
- b. local reversal due to periods of low recharge and a depressed water table,
- c. mounding of the water table around the edge of the paved plant area.

At this point, all of the above processes are unsubstantiated. This Department is not ruling them out completely, but at this point, the consultants are speculating as to the ultimate contaminant/transport medium.


Mr. Bob Hernan June 20, 1983 - 4 -

This Department welcomes any comments on this review. If you have any questions regarding this review, please feel free to contact this office.

AR100038

Very truly yours,

VICTOR JANOSIK Solid Waste Operations Supervisor

cc: Frank Holmes Continental Refrigeration Betz Converse Murdoch Bureau of Water Quality Management Victor Janosik Central Penn Bank West Whiteland Township Chester County Health Department Re HW22



AR100039

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APPENDIX C

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Continued From Pese 2 V. WASTE RELATED INFORMATION (continued) . LIST SUBSTANCES OF GREATEST CONCERN WHICH MAY BE ON THE SITE (place in descending order of hourid). - due to be removed as next few inc. lillaste colmente in drume + tank + oils in soil - due to be nem Jui ney ce-1. Waste solvente NIT: ADDITIONAL CONVENTS OR NARRATIVE DESCRIPTION OF SITUATION KNOWN OR REPORTED TO EXIST AT THE SITE. ly (attack treasely interarea. On aug 2, 1983 e it was dete at this time 4 With qua grouperate antaminates e gj the amentic mene - 11 VI. HAZARD DESCRIPTION B. POTEN-C. ALLEGED D. DATE OF INCIDENT TIAL HAZARD (mork 'X') A. TYPE OF HAZARD INCIDENT (mark 'X') E. REMARKS (mon, day, yr.) . NO HAZARD ÷ HUMAN HEALTH . • • NON-WORKER INJURY/EXPOSURE 1 WORKER INJURY · · . . • , i CONTAMINATION OF WATER SUPPLY ۰. CONTAMINATION OF FOOD CHAIN • . ciema the containinten · Ling C CONTAMINATION longing Hr. ----with in the cill 2.R CONTAMINATION OF SURFACE WATER inte . • DAMAGE TO ٠ ۰. FLORA/FAUNA ۰. . 1 . FISH KILL - ⁻-• LONTAMINATION 2-NOTICEABLE ODORS Slippy randing soluciti . CONTAMINATION OF SOIL X 4. PROPERTY DAMAGE ÷ . FIRE OR EXPLOSION SPILLS/LEACHS CONTAINERS/ HUNDEF/STANDING LIQUIDS 7. SEWEP. STOPY DEAIN PROBLEMS . EPOSIDA PHOBLESS 3. INADEGUATE SECURITY . INCOMPATIBLE MASTES MONSHT DUVE NO 2. OTHER (Weelly) AR100042

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4. WITH RESPECT TO (IIat regul	ation nocie & number)			
	VIII. P	AST REGULATO	RY ACTIONS	
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OTE: Based on the information	on in Sections II	I through X, fill	out the Preliminary Assessment (Section II)	İ

information on the first page of this form.

1 Form T2070-2 (10-79)

PAGE 4 OF 4

FIELD TRIP SUMMARY REPORT

This summary should be prepared in conjunction with the Preliminary Assessment Form, (EPA Form T2070-2), so that a proper site rating can be assigned.

Hame of Site allen I.W. Frank Corporation EPA Case Munber PADO04351003

I. If site is active, has owner/operator notified EPA in accordance with Section 3010 of RCRA. Yes______ No_____

N/A If ies: a) Note EPA I.D. No.

- b) Is the site a generator, storer, treater or disposer of hazardous waste? (CIRCLE ONE).
- II. If the answers submitted in Part VI (Hazard Description) of EPA Form T2070-2 or observations warrant a more thorough site investigation/sampling, please attach a sketch map showing those areas of concern. (i.e.: lagoons, leachate seeps, drum storage, monitoring wells, etc.).
- III. Please list site contacts and accompanying inspectors; include name, title and phone numbers. <u>Horman L. Manager Manager</u>

longloyed by Continental Refugeration Corp price it Curren of property. -

IV. Site observations: (attach a topo map).

A. Population within 1000 ft. of the site is (CHECK CHE)

1. U-10 people 10-100 people creater than 100 people

B. List surrounding land use: (woodlot, agricultrual, playground, industrial, etc.)

Herei: agricultural abuslical ____ South: East: Commercial Some Commercial / residentia

FIELD TRIP SUMMARY REPORT

С. Water supply for area. (CHECK ONE) Surface intakes (locate on attached map) 1. Municipal wells (locate on attached map) 2. (S.) Domestic wells: a. Approximate number within ½ mile. b. Locate a minimum of 3 wells on attached map and list below: Property owner Joseph D'asubasis Clurch Fam School Sta Preiling + Jo 117 E. Lancasta R+ 30 RT30 + SR. Piles, Parli, P-19301 Exton P. Exton Pa Address Phone No. Well records YES X NO _ NO X YES YES NO \times NOX NOX Odor problems YES YES YES NOX Taste problems YES NO X YES NO Y YES NO c. If odor or taste problems are reported please elaborate: Are surface or subsurface, (leachate), drainage areas from site apparent? D. YES NO X. If yes: YES X KO 1. Were unusual odors or stains noted? 2. Was stressed vegetation noted? a. If yes please note area on map. Are streams or receiving waters adjacent to sile? YES K NO If yes, list observations: (i.e.-change in bonthic community, change in plant density/diversity, change in color, siluation, etc.). Too far duras to be affected المراجع الذي المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع ا Site topography: (i.e.-plateau, strip sine revines, etc.). F. Other observations: (i.e.-erosion, located in flood plain, etc.). С. AR100045

FIELD TRIP SUMMARY REPORT

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Agency:				· · ·		
Pliane No.	:		p-		hand - h	4 e.
Is a hydr If no, Se	ogeological su ction III D of	rvey for this EPA Form 1207	site attached? 0-2 must be com	YES X 1:0_ pleted.	····	7
Picase at (i.eSta	tach pertinent te monitoring	copies of rep data, consulta	orts or data ro nt reports, etc	viewed by ins	pector:	•
Name of 1	nspector:	Frank H	oluer	-		
Açency:	RDEI	2 - Non	istrum		• •	
		6.31-2420	2	والمحمد المحمد		
Phone No.	·					
Phone No. Time on S	ite: 080	11/2	2/83			

Page 3

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APPENDIX C - 1.3

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Department of Environmental Resources

1375 New Hope Street Norristom, Pennsylvania 19491 215 631-2409

August 2, 1983 🔔

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tiessers. Joseph D'Arbrosio

sources of the solar fragment n de la complete de la construction de la construction de la construction de la construction de la construction La construction de la construction de la construction de la construction de la construction de la construction d and Cordi Scertozzi 117 Last Lancaster Pike Sec. Sec.

Peoli, PA 19301 Re: Industrial Waste

Pis & Mid County Mistang Property West Whiteland Township Chester County

AR100048

Gentlemen:

This is to confirm the results of my inspection conducted on July 5, 1983 which revealed that floor drains, which have the potential of receiving industrial waste, discharge to groundwater.

Such condition is in violation of Title 25, Chapter 101 Section 101.3(a) of the Rules and Regulations of the Department of Environmental Resources regarding potential pollution. Consequently, you are in violation of the Clean Streams Law, the Act of June 22, 1937, P.L. 1937, as mended and subject to the penalties provided therein.

The well on the property has been found to be contaminated with volatile organic compands, including TCE.

We are requesting that you take the following actions to correct and mitigate the effects of this groundwater pollution problem:

Ib later then September 23, 1983, to retain a qualified hydrogeologist 1. and submit to the Department for approval, a work plan describing the scope and methods of a hydrogeologic study to determine the extent and impact of soil and groundwater contamination at and in the vicinity of the subject property. The work plan should include target dates for completion of the various tasks exprising the study, including a final report and recommendations. The scope of the study should include as a minimm:

Definition of the present extent of soil and groundwater pollution.

Evaluation of the potential for further spread of soil and groundwater pollution.

Definition of all sources of the pollution and a description of the means and methods proposed or used for the eligination of said sources. Messers. Joseph D'Ambrosio and Cordi Scartozzi August 2, 1983

Evaluation of alternatives available to abate the soil and groundwater pollution.

A groundwater quality nonitoring program which will allow for evaluation of long-term groundwater quality conditions and which will ensure the protection of public health.

Conclusions and proposed actions to abate the soil and groundwater pollution and a schedule for accomplishing such actions.

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If you have any questions, please feel free to contact me.

Very truly yours, Marilyn Shup

MAPILITI SHUP Specialist

cc: Frank Holmes, SUM/ Choster County Health Department Re 30 A503

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AR100050

APPENDIX C - 1.4

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NOPRISTOWN NUMBER SEP 1 " CHEMICAL WASTE REMOVAL SERVICE Delaware Container Co., Inc. · FUEL EXTENDERS STEEL DRUMS W. 11TH AVENUE & VALLEY ROAD PHONE: (215) 383-6600 August 9, 1983 Continental Refrigerator Corp. P.O. Box 377 Media, PA 19063 AUG 1 0 10 93 Attention: Herman L. Miron, Project Manager Dear Mr. Miron: Per your request; Delaware Container Co., Inc. is offering the following proposal for the AIWF clean-up project. A. <u>Contaminated Soil Removal/Transport/Disposal</u> Labor and equipment to remove 80 cubic yards of :1. TCE contaminated soil and 20 cubic yards of diesel fuel contaminated soil: \$1250.00 2. Transport and disposal of TCE and diesel fuel contaminated soil: \$125.00 per cubic yard. Disposal will be at a secure chemical landfill in Oregon, Ohio. B. Drum Removal/Transport/Disposal والدار والمعارك مكر Supply six overpack salvage drums to contain leaking drums: \$20.00 each=\$120.00 Labor, 2 men @ \$20.00 per hour x 8 hours each: \$320.00 3. Disposal/Transport a. 12 drums of combustible materials @ \$70.00 per drum = \$840.00 25 drums of non-regulated material @ \$70.00 b. ' per drum = \$1750.003 drums of chlorinated material @ \$70.00 per c. drum = \$210.001 drum of ammoniated material @ \$70.00 per ·d. . drum 2 drums of solidified ink @ \$70.00 per drum = \$140.00 1 drum of roofing material @ \$70.00 per drum f. AR100051

Compliance fee for entire load, \$50.00

Labeling and manifesting, \$100.00 entire load

Total cost for drum transport and disposal, \$3670.00, to include all labor, materials, transport, disposal labeling, and manifesting.

TCE Tank, Removal/Disposal of Contents

. 150 gallons removal/transport, \$150.00

2. 150 gallons disposal @ \$1.27 per gallon, \$190.50

3. Compliance fee, \$25.00

Costs for the entire project, based on given quantites, are as follows:

1. TCE and diesel contaminated soil: \$13,750.00

2. Drum removal/transport/disposal: \$ 3,670.00

3. TCE removal/disposal from tank: \$ 365.50

\$17,785.50 TOTAL

As we discussed previously, the responsible party or agent representing the generator must apply for a temporary EPA I.D. number. This can be done by calling the EPA office at 6th and Arch in Phila. The number is 215-597-8751. Ash for Joan Henry. There is no charge for this but minimal paperwork will follow. The number issued must be valid for two weeks, to allow the contractor ample time for clean-up.

Also, if Delaware Container Co., Inc. is awarded this project, we must be given written notice as to the party or partiec responsible for payment. Monies placed in escrow would be acceptable until the project is completed. Terms are net 30 days from date of invoice. Amounts due over 30 days are subject to a 1½% per month interest charge.

Thank you for the opportunity to bid on this project. If you have any questions or require additional information, please feel free to call me at anytime.

Signature

Kindest Regards.

Sincerely,

DELAWARE CONTAINER CO., INC.

AR100052

en Girmarco

Ken Sirmarco

KS/dlm

AR100053

APPENDIX C - 1.5

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REPORT

PECELLED.

HYDROGEOLOGIC INVESTIGATION OF THE AIWF PROPERTY

APRIL 1983

AR100054



Betz Converse Murdoch Inc. Engineers, Planners and Scientists TABLE 1

SITE MONITORING WELL WATER QUALITY DATA

Well No.	l Date Sampled	BCM Lab No.	Trichloroethylene	Perchloroethylene	1,1,1-Trichloroethane
-	01/27/83	N300696	<0.1	<0.1	<0.1
-	03/15/83	N302167	<0.1	<0.1	0.9
2	01/27/83	N300784	104	13	414
2	03/15/83	N302168	299	16.5	486
ო	01/27/83	N300697	<0.1	<0.1	116
ო	01/31/83	N300785	5.3	<0.1	94.4
m	03/15/83	N302169	. 17.6	1.5	104
4	01/27/83	N300698	40.1	<0.1	<0.1
4	03/15/83	N302170	<0.1	<0.1	4.9
ى	01/27/83	N301071	1.5	<0.1	<0.1
5	03/15/83	N302171	0,5	۲.0>	1.9
, All	values reported	in microo	grams per liter (µg/l		

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AR100055

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Betz · Converse · Murdoch · Inc.

Betz · Converse · Murdoch · Inc.

TABLE 2

SITE MONITORING WELL WATER QUALITY DATA

ID: Well 2 BCM No.: N300784 Parameter* Date Sampled: 01/31/83	Well 3 N300785 Ol/31/83
Chloromethane <0.1	<0.1
Bromomethane <0.1	<0.1
Vinyl Chloride <0.1	<0.1
	<0.1
Methylene Unioride 4.3	3.0
	<0.1
Tel, I-Dichloroethene 69.5	<0.1
<u>Di</u> , 1-Dichloroethane (U.1	13/
Trans-1,2-Utchiordethene <0.1	14.8
La Dichlaracthara	
Carbon Totrachlorida	
Reprodicible and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se	
1 1 2-Trichlonosthano	
Cis-13-Dichloropropopo	
Bromoform /0.1	
1 2-Bichloropropage	4.5
Ronzana 5.5	2.3
Toluene (0.1	2.3 <0 1
Fthyl Benzene 201	
1 3-Nichlorobenzene 1</td <td>10.3</td>	10.3
1,5-Dichtorobenzene (0.1	/0·1
1 2-Dichlorchanzene	
$PCR \ge A_1250$	

*All values reported in microgram per liter (μ g/l)

TABLE 3

OFFSITE WELL WATER QUALITY DATA

1,1,1-Trichloroethane 0.5 N M 335 NA 195 AN Perchloroethylene 9.8 18.2. 0.5 60.] <0.1 **<0.1** [] Trichloroethylene All values reported in micrograms per liter (µg/l) 0.5 <0.1 <0.1 700 712 79 317 BCM Lab No. N302382 N302173 N302173 **06E00EN** N300387 N300389 N300388 03/15/83 03/21/83 01/13/83 01/13/83 03/15/83 01/13/83 01/13/83 Date Sample **Central Penn** Apple Press Apple Press Livingston Mid-County Mid-County Location Lasko

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AR100057

Betz · Converse · Murdoch · Inc.



Parametar	ID:	S-1	S-2	B-1	8-1	8-1	B-2
	Depth(ft):	0.5-1.0	0.5	3-4	6-7	9-10	3-4
	BCM No.:	N300833	N300847	N300837	N300838	N300839	N300841
	Date Sampled:	02/01/83	02/01/83	02/01/33	02/01/83	02/01/83	01/31/83
Trichloroe	thylene	0.13	0.08	ଏ.01	ଏହ.01	ଏ.01	<0.01
Perchloroe	thylene	0.14	<0.02	ଏ.ଫ	ଏହ.02	ଏ.02	<0.02
1,1,1-Tric	thlorosthane	4.4	4.5	ଏ.01	ଏହ.01	ଏ.01	<0.01
Parameter	ID:	8-2	8-2	B-3	8-3	8-4	B-5
	Depth(ft):	6-7	9-10	3-4	6-7	3-4	3-4
	BCM No.:	N300842	N300846	N300844	N300843	N300845	N300852
	Date Sampled:	01/31/83	01/31/83	01/31/83	01/31/83	01/31/23	02/01/83
Trichloroe	sthylene	ଏ.01	0.01	25.6	0.05	0.05	16.6
Perchloroe	sthylene	ଏ.02	0.02	13.1	0.06	0.03	6.9
1,1,1-Tric	shloroethane	ଏ.01	0.01	68.7	0.31	0.21	128
Parzoeter	ID:	B-6	B-6	B-7	B-7	B-8	B-8
	Depth(ft):	1.5-2.5	3-4	3-4	8-9	1.5-2.5	3.5-4.5
	BCM No.:	N300853	N300854	N300850	N300855	N300849	N300851
	Date Sampled:	02/01/23	02/01/83	02/01/83	02/01/83	02/01/83	02/01/83
Trichloro	ethylene	2.1	0.12	0.08	0.07	0.08	0.01
Perchloro	sthyl <i>ene</i>	0.12	0.05	0.06	<0.02	0.06	0.02
1,1,1-Tric	Chloroethane	9.3	4.4	9.5	<0.01	0.02	0.02
Parameter	ID: Depth(ft): BCM No.: Date Sampled:	8-8 10-11 N300848 02/01/83	B-9 1.5-2.5 N300834 02/01/83	8-9 4-5 N30083 02/01/	5 83	B-10 0.5-1.5 N300836 02/01/83	B-10 2.5-3:5 N300846 02/01/83
Trichloro	ethylene	0.08	0.43	<0.01		3.3	14.3
Perchloro	ethylene	<0.02	0.23	<0.02		0.29	0.24
1,1,1-Tri	chloroethane	0.02	2.6	<0.01		4.9	23.0

TABLE 4

SOIL SAMPLING DATA (Values in mg/kg - Milligrams per Kilograms)

12

Betz-Converse-Murdoch-Inc.



Drilling Log

Well Number	
ient <u>Kittredge</u> , Kaufman, 1 Location In field, nort	Donley Project No. 00-5456-01
Driller/Company Jack Coover. Drilling Method Air hammer Sample Type cuttings Surface Elevation Casing Material and Size stee Grouting Type Portland cem Screening Material and Size Packing Material and Size Depth to Static Water 10. Development Method Air Logged by: D. J. Varner	Thomas G. Keves. Inc. Frazer. PAHole Diameter8"/6"Date(s) Drilled1-17-83Sample IntervalN/ANo. Samples RetainedNoneCasing Top Elevation346.63'Total Well Depth50 feetel. 6" IDCased Interval(s)0 - 8.5 ft.entGrouted Interval0 - 8.5 ft.N/AScreened Interval(s)N/AN/APacked IntervalN/A5'Date1-27-83Date1-27-83Approx Well YieldInterval1.5 hours
Comments Open hole from 8.5 feet to 50 feet Locking steel cap in- stalled for security	KETCH MAP Well 1 Well 1 Well DETAIL Well DETAIL Cocking Cap Grow# C Grade Grow# C Grade Grow# C Grade Grow# C Grade Grade Grade
	R. Ster
Scale Sample Elows	Description of Naterials
0 - 4'	Rusty clay soil
4 - 50'	Creamy to blue-gray fine crystalline hard limestone
	Fracture zones detected at:
	$ \begin{array}{r} 18.5 - 19.5' \\ 33.5 - 34' \\ 43.5 - 44' \end{array} $
	· · · · · · · · · · · · · · · · · · ·
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Betz-Converse-Murdoch-Inc. BCM

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Drilling	Log
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Well humber	2			
Client <u>Kit</u> Well Locati Driller/Com Drilling He Sample Type Surface Ele Casing Nate Grouting Ty Screening H Packing Hat Depth to St Development Locged by:	ttredge. K on Loadin pany Jack thod Air/ cuttings vation rial and s pe Portla laterial and atic Water Hethod D.J. Va	aufman. Dor <u>q area on v</u> <u>Coover</u> , Ti <u>H20 harmer</u> Ca Size <u>PVC</u> , <u>nd cement</u> <u>nd cement</u> <u>size <u>Sil</u> <u>22.71'</u> <u>Air</u> rner</u>	hley west side of inactive AIWF homas G. Keyes, Inc. Fraze Hole Diameter <u>8</u> " imple Interval <u>N/A</u> asing Top Elevation <u>367,42</u> 4" ID 1/6" prot. steel lotted PVC, 4" ID ica sand, very coarse Date <u>1-27-83</u>	Project No. 00-5456-01 plant, W. Whiteland, Townshit r. PA Late(s) Drilled <u>1-17 & 18-83</u> No. Samples Retained <u>None</u> 4' Total Well Depth <u>43'</u> Cased Interval(s) <u>0 - 23'</u> Crouted Interval(s) <u>0 - 21'</u> Screened Interval(s) <u>23 - 43'</u> Packed Interval <u>21 - 43'</u> Approx Well Yield <u>less than 10 gpm</u> Cevelopment Time <u>0.5 hr</u>
Comments Lo casing ins depth of security	ocking ste stalled to 10 feet fo		n-e-s- Nove Swate Nove A	NELL DETAIL LOCKING CAP n.C.S. Steel Casing Grade PVC Casing V C Casing V Grout V Grout
Depth Scale	Sample	Spoon Blows	Descriptio	on of liaterials
0 - 0.5'			Asphalt	
0 5 - 12 9			Bright nust silty Clay wi	th some gravel near surface
12.5 - 44		· · · · · · · · · · · · · · · · · · ·	Dark brown to rust clay	
				AR100061

Betz-Converse-Murdoch-Inc. BCM



Drilling Log

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Well Number _____3

ment Kittredge, Kaufman,	Donl	ev	Proje	ct llo.	00-5456-01
Location 100' n.w. of	che	mical storage area, AIWF t	plant.	W. Whit	teland Township, PA
Driller/Company Jack Coover	·, Th	omas G. Keyes, Inc. Frazer	r. PA		
Drilling Hethod Air hammer		Hole Diameter <u>8" / 6"</u>	Date(:	s) Dril	led <u>1-19-83</u>
Sample Type cuttings	_ Sai	mple Interval <u>N/A</u>	No. Sa	amples	Retained <u>none</u>
Surface Elevation	<u> </u>	sing lop Elevation <u>369.35</u>		otal we	11 Depth <u>50 feet</u>
Casing flaterial and Size st	eel,	<u> 6" 1D </u>	Crout	interv od Into	$\frac{1}{0} = \frac{15}{15} \frac{15}{5}$
Screening Naterial and Size	N/	Δ ·	Screel	ned Inte	remults) N/A
Packing Naterial and Size	NZA			d Inter	val N/A
Nepth to Static Water 1	5.98'	Date 1-27-83	Appro	x Well	Yieldless than 5 dom
Development Method Air	<u></u>	· ·	Devel	opment	Time 0.5 hours
Logged by: D. J. Varner			• •		· · · · · · · · · · · · · · · · · · ·
Comments Heavy solvent	CVE	TCU MAD			
odor detected in well	SAE				AIL LOCKINGLAP
water	╏╌┼╌╂			routh	Charles Corder
		H ₂ O land			
<u>Open hole from 15 feet</u>	$\Box \Box \Box$				Over-
to 50 feet				o Steel	111 115 burden
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Locking steel cap in-		Juli Dwale			V V T
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Pepth Spoo	n İ	Descriptio			7.4
Scale Sample Blow	S	Description	on or i	lateria	15
		A		_ 	
		Aspnall			
0.5 - 6'		Rust Clav soil			
6 - 11.7'		Weathered dark brown-gra	y lime	stone	
$11.7 - 50^{\circ}$		Grav-blue hard fine-crvs	talline	limes	tone
		Possible fracture zon	nes at:		
		<u>13.6 and 35 feet</u>			
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APPENDIX D

1.0 LIST OF REFERENCES

- 1. Pennsylvania Department of Environmental Resources files
- 2. Soil Conservation Service, Soil Survey of Chester and Delaware Counties, PA
- 3. Preliminary Geological Quadrangle Maps of Pennsylvania
- 4. USGS Flood-Prone Map, Malvern, PA, Quadrangle 7.5 Minute Series
- 5. Betz-Converse-Murdoch, Inc. water and soil sampling data

AR100064

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Appendix E

Appendix E

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ORIGINAL Rows

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TELECON NOTE

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BETWEEN: Mr. Hermon Min	on OF: Continuited R	ebanaritor PHONE:
	Corp.	() 524-0400
AND:		
Jim Strickland		(NUS)
	<i>,</i>	
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schould Bo Tonnom	March 20th at 10:30.	
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TELECON NOTE

CONTROL NO:	DATE:	TIME:
	3-7-84	10:15
DISTRIBUTION:		
BETWEEN:	OF	PHONE
Hermon Miron	Continented Refregerator C	lonp. () 524-0400
AND:		
Jim Strictland	•	(NUS)
DISCUSSION:		
& Qrad man Ootte	- asping for site becase net	when to me to Day I ser all se
of wrong Zipurde.	S CAWON MA MURA to	Tell him of the dielay.
de ele latter- We	- were to have a site vise	t Gribay-March 9 =
But Mr Mion un	ill be and to Terros that d	ky. We made amount
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meconomy changes in the la	ther, and had it sand to him	<u></u>
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TELECON NOTE

CONTROL NO:	DATE:	TIME:	
	2-29-84	:.2:00	
DISTRIBUTION:			
BETWEEN:	OF:	PHONE:	
Francis Holm		C.R. (215) 2'	70-1920
AND:			
Jum St	Fishland .		(NUS)
DISCUSSION:			
forme petur	ned my call - with n	elerence to a site visit to the	he.
ITU P NET			n
- ALW Frank Sc	G. We made lettor	equinents to meet what end	<u>×</u>
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	2-28-84	2:30	•
DISTRIBUTION:			
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		· · ·	-
BETWEEN:	OF:	PHONE:	
Chester Co. Water Resource Dept	. Chooser C	c. (215) G92-787	7B
AND: Jim Strublen	2	······································	
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- Legunter Denne ogene	al Information on the local	Wats - supply in the area.	
of the AJW frank S	ite.		
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AND: Jun Strickland	· .		(NUS)		
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AND:			24-0400
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AND: Jim Sta	ilolan Q				
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CONTROL NO: DATE: TIME: 9-19-84 DISTRIBUTION: ATW Frank 8402-06 **BETWEEN:** OF: PHONE: AND: Stickland Jamoo (NUS) **DISCUSSION:** me Shurch Pa aske to ~ 00 Day 90 EDI Letween 120-150 Church owered to 80 port Que \mathbf{n} Keyo # -2880 ΩO Church fam Sch ttl deroy (363-7500 one 90 Qoop, and A times e lluchan Authorite - 626 unice (215) tata . ÷U m Dervice the Entry have dept Agea 200 to 300 Root He also stated that the are tapped into is who all the wells to Conestogo formation 000 13300 Wat Unicial White -1215 -9525 363 Ther ACTION ITEMS: Municip the z the site 100 <u> 95</u> 15 5 R at in Neath .