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INDUSTRIAL WASTE SITES

SPAULDING FIBRE COMPANY, INC.

INDUSTRIAL PLASTICS DIVISION

TONAWANDA, NEW YORK 14150

12/83

INDUSTRIAL WASTE SITES

 \mathtt{AT}

SPAULDING FIBRE COMPANY, INC.

INDUSTRIAL PLASTICS DIVISION

310 WHEELER STREET

TONAWANDA, NEW YORK 14150

DECEMBER 13, 1983

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1. BACKGROUND

Spaulding Fibre Company, Inc.'s Industrial Plastics Division located at 310 Wheeler Street, Tonawanda, New York, County of Erie has two (2) inactive disposal waste sites on its property. One (1) is listed under NYSDEC site code as #915050-b and the other as #915050-c. The 915050-b site contains approximately 750 - 55 gallon drums of resin and was used from February 1978 to September 1978. The 915050-c site contains approximately 40 tons (7,500 cubic yards) of Spauldite® dust in polyethylene bags and was used from the fall of 1977 to September 1978.

The manufacture of Spauldite® brand high pressure industrial laminate involves the use of a reinforcing web in a resin matrix. The reinforcing webs used at this facility during the 1977 and 1978 time period were: cellulose paper, asbestos paper, woven cotton fabric (linen and canvas), woven asbestos fabric and woven glass fabric. These continuous webs are dipped in a thermosetting liquid resin (adhesive) system and cured (dried) to a B-stage or prepreg condition. Several sheets of B-state are then placed in a press where heat (300-365°F) and pressure (1000-1500 psi) are used to fuse the individual B-stage plies into one homogeneous mass with a thickness determined by the weight (number of plies) put into the press. Since the resins used are all thermosetting the chemical reaction that takes

place is irreversible and the resin is permanently cured (set). An analysis of our production records indicate that the average product mix is 95% phenolic, 2% epoxy and 3% melamine laminate. All the sheets are saw trimmed and most are sawed into thirds or halves. About 5-10% of the laminates are also surface sanded for various reasons such as close thickness tolerance control, roughened surface for bonding, etc. It is the saw and sanding dust that was bagged and disposed of in the dust area #915050-c. This material is solid, inert, water insoluble and non-volatile.

As stated, liquid resin systems are used to impregnate and/or coat the reinforcing webs. It is the tank heels and cleanup residual material that is in the drums in area #915050-b. These systems are thermosetting and have the catalyst in them so that they will polymerize to their cured (C-stage) form. The polymerization process is a chemical reaction that is temperature dependent. The reaction rate doubles for each 10°C increase in temperature. These resins cure at 50 to 300 seconds at 300°F. Since these reactions are condensation polymerization in nature, the by-product is water. The last drum was disposed of in #915050-b in September 1978, over five (5) years ago. We would fully expect that these materials have solidified in that time period. The raw chemicals in these systems are: phenol, formaldehyde, cresylic

acid, dibutyl phthalate, butyl octyl phthalate, aniline, epichlorohydrin, bisphenol-A, methanol, toluol, methyl-ethyl-ketone and ethyl alcohol.

2. DUMP LOCATION AND DESIGN

The original 1961 blueprint of the Spaulding buildings and property updated as of November 1983 shows the location, dimensions and vertical section design of the dump sites.

The dust site has a mounded cover approximately 25 x 70 feet. This site contains two (2) trenches 6 x 40 feet and one (1) trench 6 x 20 feet. The bottom of the trenches is ten (10) feet below ground level and twelve (12) feet below the mounded cap. There is approximately four (4) feet of cover on top of the bagged dust. The bags of dust are in layers with each layer covered with earth.

The drum site has a mounded cover 50×70 feet containing trenches seven (7) feet wide. The drums are positioned in a randomed manner in the trenches with about four (4) feet of earth cover.

3. DATA

- A. USGS Test Borings 1982
 - 1. Site 915050a (lagoon to collect Spauldite® tube wet grinding waste containing phenol)

Lagoons were excavated 1972 and filled with clean material. The excavated material was disposed of at Seaway Landfill. NYDEC reports that this area has been properly closed.

Well No.	Depth (ft)	Description
1	0 - 0.5	Topsoil
	0.1 - 1.5	Clay, red, intermixed with
		gravel, extremely tight
		SOIL SAMPLE: 2 - 3.5 ft.
2	0 - 5.5	Clay, red, tight, dry,
		with layers of gravel
	5.5 - 7.0	Clay, red, wet
	7.0 - 11.5	Clay, red, tight, dry
	11.5 - 16.5	Clay, Ted, tight, dry
		SOIL SAMPLE: 5.5 - 7.0 ft.
3	0 - 5.0	Clay, reddish, tight, dry,
		some gravel
	5.0 - 5.5	Clay, reddish, wet
	5.5 - 26.5	Clay, reddish, dry
		SOIL SAMPLE: 5 - 5.5 ft.

Well No.	Depth (ft)	Description
4	0 - 0.5	Topsoil
	0.5 - 3.5	Clay, reddish, tight, dry
	3.5 - 4.5	Clay, reddish, damp
	4.5 - 16.5	Same as above but with
		gravel layers.
		SOIL SAMPLE: 3.5 - 4.5

As indicated, soil samples were collected from each boring at depths ranging from 2 - 7 feet.

No phenols were reported in these samples.

B. Earth Dimensions, Inc. Test Borings - 1978

Attached are copies of these boring data plus
a summation letter dated September 27, 1978 by Mr.

Donald W. Owens, Soil Scientist for Earth Dimensions,

Inc.



DIMENSIONS, INC.

Soil Investigations and Natural Resource Assessments
797 Center Street • East Aurora, New York 14052 • (716) 655-1717

September 27, 1978

Mr. David Meber Krehbiel Associates, Inc. 1868 Niagara Falls Boulevard Tonawanda, New York 14150

RE: SOILS REPORT - SPAULDING FIBRE

Dear David:

Three soil borings were augered September 22, 1978 near the eastern and southern side of the buildings of Spaulding Fibre in the City of Tonawanda. The placement sites were located by David Weber of Krehbiel Associates.

The soils were logged at these sites based on split spoon samples taken from every major horizon. In addition, undisturbed soil samples were collected in Shelby tubes from two depths at each bore site for permeability laboratory tests.

A thin mantle of clayey lake sediment was described as the surficial original sediment at all three sites. This mostly stone free sediment rested on a silty clay loam (CLAYEY-SILT) dense glacial till containing some stone fragments. The lower boundary of this very impervious clayey mantle ranged from 3.0 to 4.5 feet below the surface. A silty lake sediment layer was a transition zone between the clayey lake sediment and glacial till in boring mb.

The (CLAYEY-SILT) dense glacial till, sometimes called "hard-pan" is very high in silt with moderate (about 25 to 55%) amount of clay and low content (less than 15%) of sand. This till is very uniform, even in the distribution of the stone fragments which is estimated to be less than 15%. Water movement through this dense zone is also very slow.

water tends to perch above the clayer lake sediment as was the case in soil boring of with the water seeping into the bore hole from the more permeable industrial waste cap. This surficial perched water table usually disappears in late spring reappearing in fall except after intense summer thunderstorms or extended wet periods. The permanent water table was below sampling depth, though the moisture content did increase with depth in borings of and of.

repared by:

Jonald W. Owens

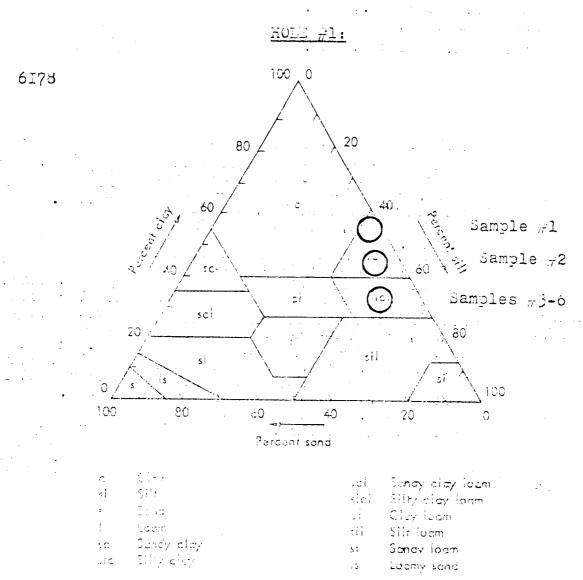
Joil Icientist

D#0/dew 6178



Test Borings and Logs 797 Center Street • East Aurora, New York 14052 • (716) 655-1717

5I75	HOLE NO.	1	<u> </u>	SURF. ELEV.
•	PROJECT	Spauld	ing Fibre Co., Inc. LOCATION	
		_		<u>310 wheeler street</u> RTED <u>9/22/78</u> COMPLETED <u>9/22/78</u>
DEPTH	PLE .	LOWS ON SAMPLER		
(feet)	SAMPLE NO.	12/15/15/N	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
	1 8 4	4 8	and industrial wastes, very fraction able to firm, in 5 to 6 inch	into bore hole from the man deposited fill
5	2 27 M	py tube	layers. Moist, reddish-brown silty of (CLAYAY-SILT) with less than gravel, massive soil structur extremely firm (stiff) Moist, reddish-brown, silty ol loam (CLAYAY-SILT) with 5 to 1 subangular, gray, hard shale a dolomitic gravel, massive soil structure, extremely firm, sli ly plastic. This deposit is v compact and uniform.	ght moved. 2 foot thick lake seding to ment resting on very dense silty glacial to end of boring. The original approximate 4 feet of clayey lake suficial material was removed. 2 foot thick lake seding to end of very glacial to end of very lake suficial material was removed. 2 foot thick lake seding to end of the en
10		nel oy		ples taken at thi depth and below.
	5 27 53 5 27 53		(Note change in scale between 10 and 15 feet with sample 4 secured between 14.5 and 15.0 feet)	water table at 11.5 feet below surface at completion.



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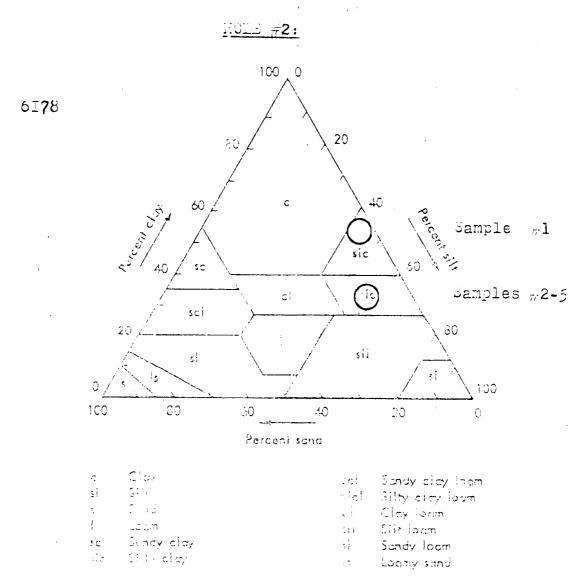
DIMENSIONS, INC.

Test Borings and Logs
797 Center Street • East Aurora, New York 14052 • (716) 655-1717

óI78	HOLE NO.	2	<u> </u>	SURF. ELEV.
•	PROJECT	Spauld City o	ing Fibre Co., Inc. LOCATION	O mheeler Street
	CLIENT	•		9/22/78 COMPLETED 9/22/78
DEPTH	SAMPLE NO.	BLOWS ON SAMPLER 12 10 18 24 N	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
· · · · · · · · · · · · · · · · · · ·	1 27 3	9 44 53	Extremely moist, black, cinder fill, very friable hoist, black, silt loam (CLAYAY-STLT) topsoil hoist, dintictly mottled, reddish-brown STLTY-CLAY, with gray vertical dessication cracks, extremely firm (stiff), plastic	Clayey lake sediments to 2 feet over dense, silty clay loam glacial till to end of boring.
5		T lby tube ple //l	Moist, reddish-brown silty clay loam (GENYEY-SIET) with 10 to 15, subangular hard dolomite and shale gravels and occasional cobble, massive soil structure, extremely firm, slightly plastic.	Mr-not taken due to Shelby tube samples taken at this depth and below.
10	3 33 4	55 ò 10		(Note scale change between 10.0 and 15.0 feet.)
<u>15</u>		T tube	Moist, brown, silty clay loam (CDAYDY-SILT) with 10 to 15% subangular hard dolomite and shale gravel, massive soil sturc-	(Sample 94 taken at 14.5 to 15.0 depths)
_ 20	17 2	\$2 4 295	ture, firm, slightly plastic Boring completed at 20 feet	No water at completion
dew			TO DRIVE 2 "SPOON 12 "WITH 140 & mith -10- SH	No. WT. FALLING 50 PER BLOW. HEET 1 OF 1

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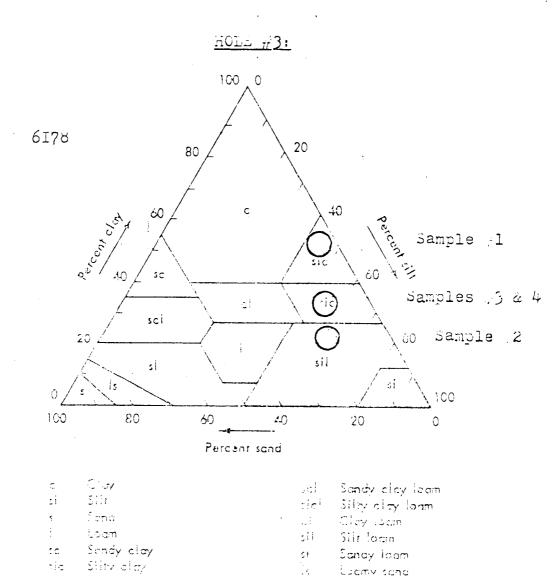
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6178	HOLE NO3			SURF. ELEV
•	PROJECT Spaul	ding Fibre Co., Inc.	ŁOCATION	jlo "neeler Street
	· · · · · · · · · · · · · · · · · · ·	oiel Associates, Inc.	DATE STARTED	9/22/78 COMPLETED 9/22/
DEPTH	BIOWS ON SAMPLER 9 12 18 24	DESCRIPTION & CLASSIFICA	ATION .	WATER TABLE & REMARKS
<u>. 1000)</u>		Moist, black, silt loa		
·	1 8 12 20	Moist, distinctly motor dish brown, SILTY-CLAN dessication cracks, venue	Y with gray ery firm	Clayey and silty lak sediments to 6 feet
_5	shelpy tubs	Moist, reddish-brown, loam (CLAYAY-STLT), the firm, nonclastic, non-	ninly bedded	over dense, silty cl
		clear transition Moist, reddish-brown to loam (CLAYEY-SILT) with subangular, hard, gray dolomite gravels, mass structure, extremely to structure.	STLTY CLAY th 10 to 15,5 y shale and sive soil	
10	18 214 0 5	01		
	shelby subsequently sample #2	Moist, to extremely me silty clay loam (CLAY) with 10 to 15% subangulard shale and dolomic massive soil structure	oist, brown BY-SIET) ular, gray te gravels,	
•	1 1722	Continued or	n Fage 2	
áew ———	N = NUMBER OF BLOW LOGGED BYOwen	S TO DRIVE "SPOON12		Ib. WI. FALLING 30 " PER BLOW. HEET 1 OF 2 .



Terroral tiles a cheems, the persons see that we have the charge and a consolir structure of the basic soil textural classes cadapted from Soil Souver Stat. 1951 May 1988.



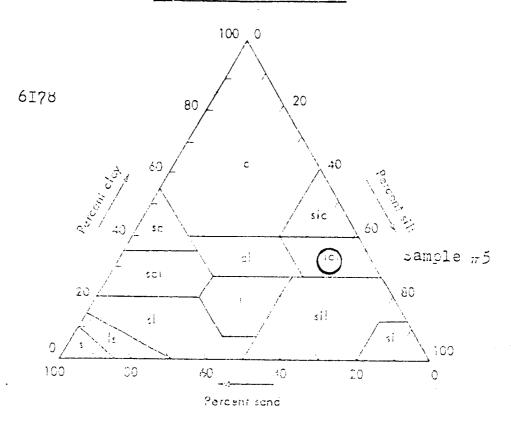
HOLENO. 3 continued

DIMENSIONS, INC.

Test Borings and Logs 797 Center Street • East Aurora, New York 14052 • (716) 655-1717

6 17 8	НО	LE N	0		<u>} c</u>	ont	<u>nued</u>			S	JRF. ELEV.
•	PROJECT <u>Spauldi</u> City of		ng Fiber Co., In Tonawanda	c	LOCATION	NO meel	er street				
	CLIE	ENT					el Associates. In	c.	DATE STARTED		
DEPTH	PLE O		Bt C	OWS AMPL	ON ER						
(feet)	SAMPLE	11/6	6 12	12/ 18	18/ 24	N	DESCRIPTION :	& CLASSIFICATI	ION	raw	ER TABLE & REMARKS
		12	24	24	29	53	(Same horizon as bottom of page	s descri l of 2)	bed at the		table 9.5 feet surface at com-
20	5				_					hie or	511
							Boring compl		20 feet		
* .											
đew							O DRIVE 2 "SPOO	ON 12 -12-		Ib. WT. FALLING	
			•				∞ Smith		· ·	ontti	Ur1

HOLE #3 - Continued:



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9 i	S() r		Silay alay loom
5	Example 1		Clay John
	Le cm	<u>.</u> :1	Silt loam
	Suncy clay	si	Sandy learn
ic	Stilly play	٢.	Loamy sand

Normal family shows the percentage of the contraction of amount ones of 0.05-2.0 mm to the finite of terms of amount of 0.05-2.0 mm to the finite of terms of assets adjusted from 8.01 Servey Sub. 1951 to

C. Calspan Corporation Soil Permeability Coefficients (k) - 1978

Shelby tube samples were taken from two (2) depths at each of the three (3) bore sites augered September 22, 1978 by Earth Dimensions, Inc. and cited in B. above. These samples were tested by Calspan Corporation for natural soil permeability coefficient with the following results:

Test Boring	Sample Zone (ft)	Permeability Coefficient (cm/sec)
1	4.5 - 5.5	$k = 1.06 \times 10^{-7}$
	15 - 17	$k = 2.1 \times 10^{-7}$
2	5 – 6	$k = 2.0 \times 10^{-5}$
	15 - 17	$k = 2.3 \times 10^{-7}$
3	3.5 - 4.5	$k = 2.2 \times 10^{-5}$
	14.5 - 15.5	$k = 1.4 \times 10^{-6}$

- D. Aerial Photograph Review and Interpretation
 - 1951, 1961, 1972 and 1978 aerial photos were reviewed with the following observations:
 - 1951 Some activity was noted in the area of
 Site 915050c. The soil appears to have
 been disturbed and some piles of material
 or containers were noted in this area.

- 1961 Continued activity noted at Site 915050c.

 A depression, possibly a pit was evident
 in the general area of 915050a. No deposition of material evident.
- 1972 Extensive accumulations of material and disturbance of soils noted in the area of Sites 915050 a, b, and c. Also apparent storage of material noted next to the building in the northeastern corner of property.
- 1978 Only minor activity noted at Site 915050b.

 No determination possible on the type of activity.

The aerial photo review generally confirms reported disposal activity by Spaulding Fibre.

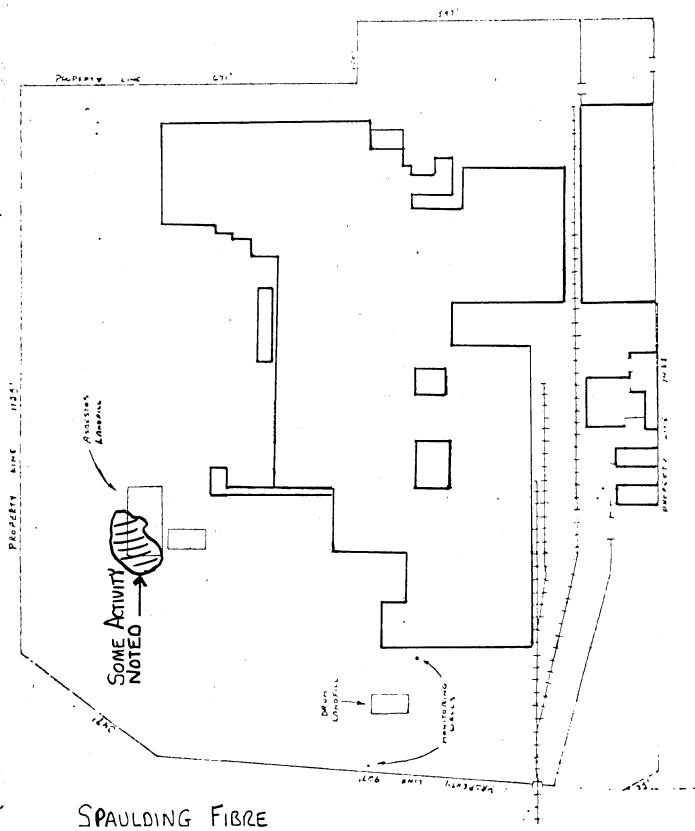
E. Town of Tonawanda Hydrogeologic Investigation By
Thomson Associates - July 1983

This information was reviewed because of the proximity of this site to Spaulding Fibre (approximately 1/4 miles south).

An executive summary on Page 7 of this report indicates that the Tonawanda Landfill areas overlay thick glacial till deposits with low vertical and horizontal permeability. The unconsolidated deposits were described as between 56 and 95.5

feet thick and consisting primarily of a red-brown silty clay glacial till. These materials were tested and showed a mean vertical and horizontal hydraulic conductivity of 1.7 x 10^{-6} cm/sec and 1×10^{-5} cm/sec respectively.

This data generally confirms the soil data reported by Krehbiel and USGS for the Spaulding Fibre site.



1951 - AERIAL PHOTO INTERP. A VOELL - DEC-1983

CILLYY DEANING DIES PUSC 11

FURN AFRICAL CHRIS NO 158 SARON

F. Spaulding Fibre Gas Well Log Information - 1978

Spaulding Fibre Company, Inc. installed three

(3) gas wells on its property in 1978. The

following is an excerpt from the drilling logs:

Well #1 (Water Tower Area - North Side of Property)

Depth (ft)	Description
0 - 24	Fill and glacial debris
24 - 170	Salina

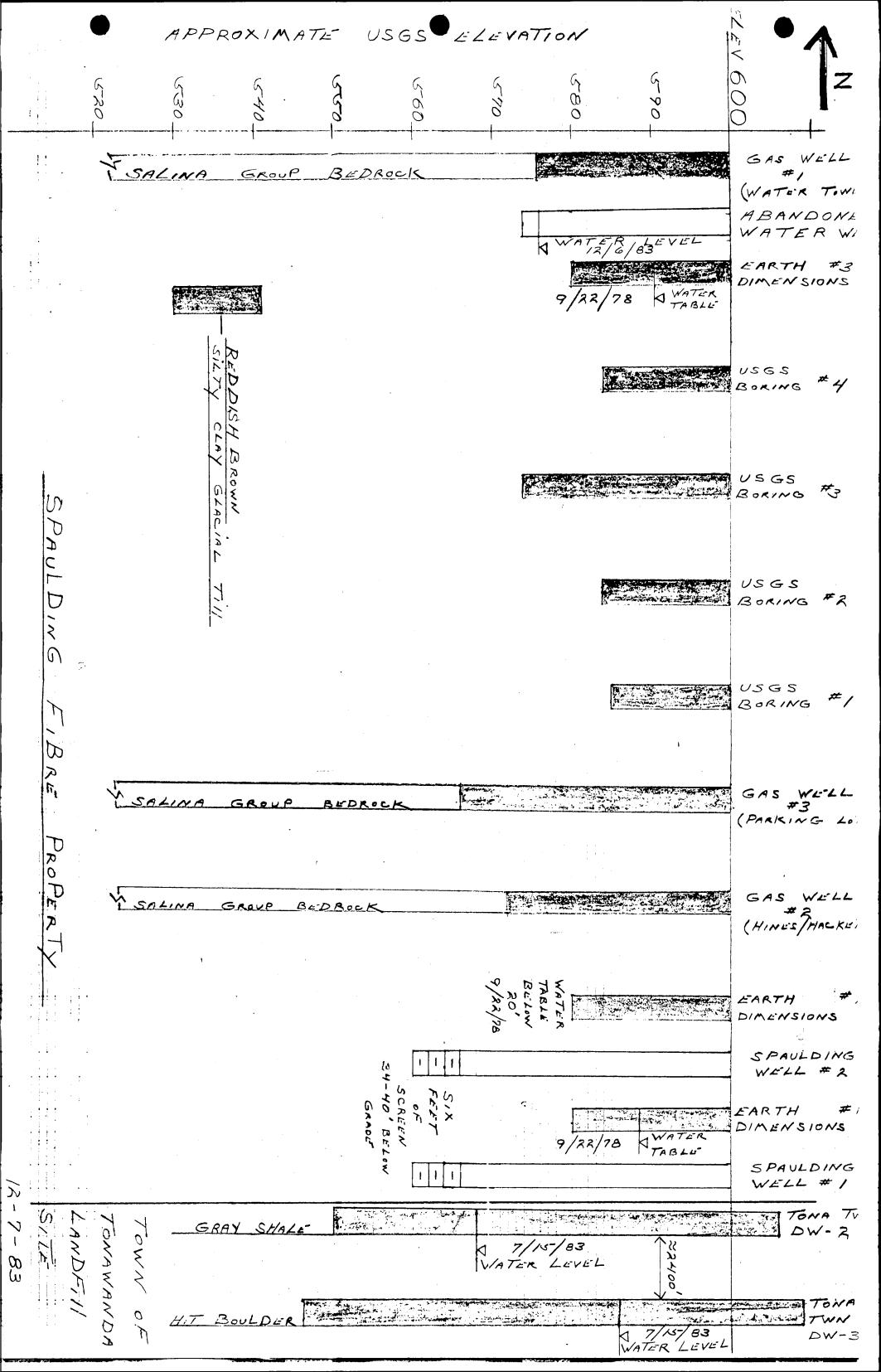
Well #2 (Hines Street - Hackett Street - Southwest
Corner of Property)

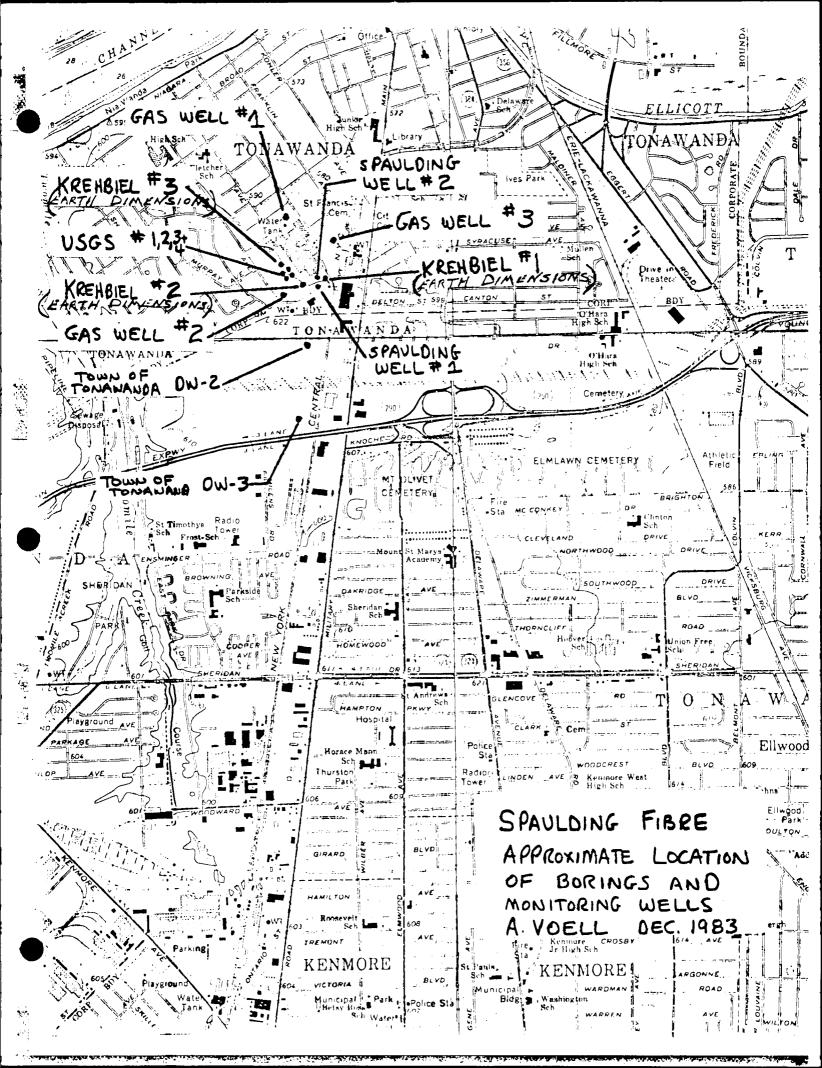
Depth (ft)	Description
0 - 28	Fill and glacial till
28 - 202	Salina

Well #3 (Parking Lot Across Wheeler Street - East Side of Property)

Depth (ft)	Description
0 - 34	Glacial fill
34 - 196	Salina

On the Spaulding property is an abandoned water well. This well was measured on December 6, 1983 for well depth and water level. The well is twenty-six (26) feet deep from ground level and the water level was at twenty-four (24) feet below the ground level.

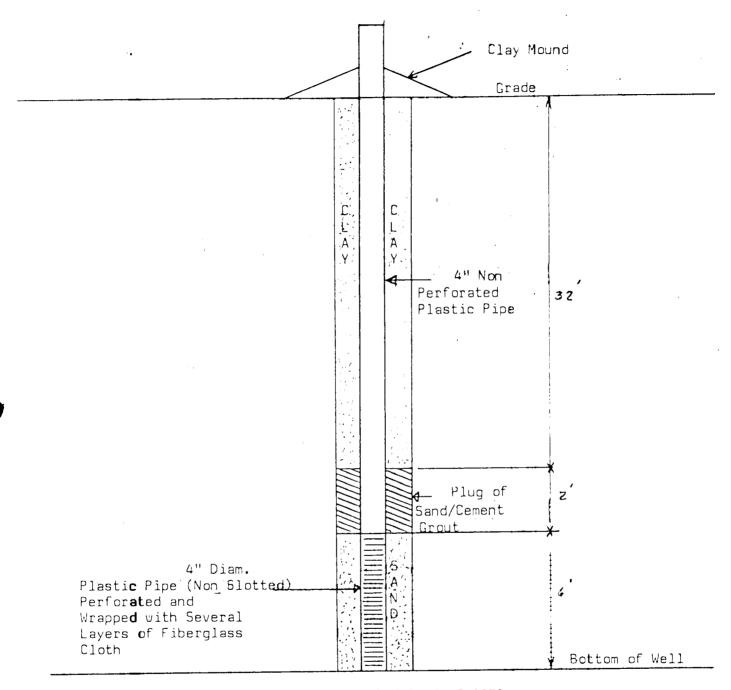




H. Well Monitoring Results - 11/23/78 through 9/29/83

Pittsburgh Testing Lab. 605 Young Street, Tonawanda, New York was contacted to put in two (2) monitoring wells, one upstream and one downstream of the drum dump site (915050b). These wells were put in October 6-7, 1978. The driller's log shows that both wells were sunk to a depth of forty (40) feet below grade. Four (4) inch plastic pipe was used with the bottom six (6) feet perforated and wrapped with fiberglass cloth. The bottom six (6) feet was backfilled with sand then with two (2) feet of cement grout on top of the sand and the thirty-two (32) feet remainder backfilled with the excavated material. The upstream well core was dry for the top thirteen (13) feet and damp from fourteen (14) to forty (40) feet. The well was left open overnight and filled with water to 1.4 feet below the surface. The downstream well filled with water to two (2) feet below grade at the end of the drill.

Following are the test results since 11/23/78.



Water Wells 1 & 2 Installed 10-6, 7-1978

· ·	/\ Z S/W					,,, , , , , , , , , , , , , , , , , , ,
	IPD	MONIT	ORING	WELL	<u>s - P</u>	² / ₋ -7
SAMPLE	P	HENOL	As	Timory		00
DATE	UP	Down	UP	DOWN	UP	DOWN
11-23-78	۲.25	K.10	K.01	K.01	175	89
1-25-79	.22	.09	K.01	5.01	78	59
3-22-79	.07	. 23	K.01	5.01	22.8	76
5-17-79	18	.24	K./	<./	93	38.8
8-18-79	.04	.03	<./	K./	26.5	49.1
9-20-79	.15	.08	K.005	K.oas	24.4	50.1
12-20-79	.07	.08	K.oas	- K.00s	19.8	32.2
5-15-80	. २ उ	. 19	K.001	K.001	7.9	19.9
10-23-80	K.03	1.03	K.007	K.007	18.8	55.6
3-26-81	.21	.26	4.00	K.005	7.7	11.5
12-10-81	K.03	K.03	K.00%	1.002	<5	
10-12-82	<.03	5.03	K.002	K.007	<1.0	14
	25K 11	119/82	17 =	:/: //Y.S	DEC TO	450
	/			THO*		
			UP	DOWN		
3 - 17- 83	K.03	<.o3	008	** . 013	16.0	53.5
9-29-83	K.03	K.03	K,01	K.01	100.0	5.2
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10-11-82

I. Expended Well Testing - November/December 1983

As a result of NYSDEC's decision to go to

Phase II for both the dust and drum sites, it was
decided to gather additional data from the test
wells. This involved analyzing for additional
chemicals and analyzing to a lower sensitivity
level. The results are in table form.

SAMPLE DATE	11/2	3/83	12/1	/83	12/6	/83
PARAME T ER	UP STREAM	DOWN STREAM	UP, STREAM	DOWN STREAM	UP STREAM	DOWN STREAM
Phenol	<2	<2	<2	<2		
Cresols	<5	<5	< 5	< 5		
Dibutyl Phth a late	<15	<15	<15	<15		
Butyl Octyl Phthalate	<20	<20	<20	<20		
Formaldehyde	5	30	14	10	3.4	8.3
Methyl Alcoh o l	3	11	2	2	2.9	2.9
Ethyl Alcohol	13	8	13	13	1.5	2.4
Methyl Ethyl Ketone	6	3	5	6	5.8	6.2
Toluene	9	3	13	9	3.4	5.1

NOTES: 1. Analysis by ACTS TESTING LABS, INC. using 606, 602, 604

EPA methods.

2. All results in parts per billion.

J. EP Toxicity Tests Spauldite® Dust - November 1983

A sample of Spauldite® dust was composited according to our average product mix as described under the section headed BACKGROUND i.e. 95% phenolic, 2% epoxy and 3% melamine. This sample was tested according to the EP toxicity test with the following results:

PARAMETER	DUST SAMPLE RESULT	EPA MAXIMUM CONCENTRATION
Arsenic	0.014 ppm	5.0 ppm
Barium	0.2 ppm	100.0 ppm
Cadmium	<0.01 ppm	1.0 ppm
Chromium	<0.01 ppm	5.0 ppm
Lea d	<0.1 ppm	5.0 ppm
Mercury	<0.002 ppm	0.2 ppm
Selenium	<0.002 ppm	1.0 ppm
Silver	<0.01 ppm	5.0 ppm
Phenol	<2 ppb	NA
o-Cresol	<5 ppb	NA
p,m-Cresol	<5 ppb	NA
Dibutyl Phthalate	5,910 ppb	NA
Butyl Octyl Phthalate	2270 ppb	NA
Formaldehyde	<0.8 ppb	NA
Methyl Alcohol	<0.3 ppb	NA
Ethyl Alcohol	15 ppb	NA
Methyl Ethyl Ketone	3 ppb	NA.
Toluene	7 ppb	NA

4. SUMMARY AND CONCLUSIONS

- Considerable data has already been accumulated in connection with the dump sites on Spaulding Fibre Company, Inc.'s property.
- 2. This data indicates that:
 - a. there has been no evidence of contaminant leaching from the sites or of groundwater contamination.
 - b. the geology of the soil in the area shows a reddish brown silty glacial till down to and below the water table. This is firm, uniform and impermeable,
 - c. soil natural permeability coefficients (k) range from 2.0×10^{-5} to 2.1×10^{-7} cm/sec.,
 - d. EP toxicity tests on Spauldite® dust do not show the material to be a hazardous waste as as defined by RCRA.
- 3. In view of the data, it is felt that Phase II work at the sites is not required, but that the on-going monitoring program be continued.