



December 14, 1995

Project Reference #2371 FID #230006920 County of Kenosha HW GENCL

Mr. Scott Ferguson State of Wisconsin Department of Natural Resources Southeast District P.O. Box 12436 4041 North Richards Street Milwaukee, WI 53212

Re: Geoprobe Investigation

Arctic Laundry and Cleaners

5619 22nd Avenue

Kenosha, Wisconsin 53140-3885

Dear Mr. Ferguson:

Sigma Environmental Services, Inc. (Sigma) conducted a geoprobe subsurface investigation at Arctic Laundry and Cleaners (Arctic) located at 5619 22nd Avenue, Kenosha, Wisconsin (Figure 1). The investigation was conducted to determine the extent of impacts resulting from the disposal of dry cleaning by-products behind the building. Impacted soil and groundwater were initially detected in samples from geoprobe boring GP-1, which was completed in August 1994.

Sigma oversaw the completion of five soil borings (GP-2 through GP-6) at locations on and adjacent to the subject property on October 20, 1995 (Figure 2). One soil sample per boring was collected and submitted to CBC Environmental Laboratories, Inc. of Oak Creek, Wisconsin, for Volatile Organic Compounds (VOC) analysis. Groundwater samples were collected from geoprobe borings GP-2, GP-3, and GP-4 on October 20, 1995. Because groundwater did not readily accumulate in boring GP-5 and GP-6, ¾-inch slotted PVC screens were temporarily installed in these borings. Groundwater samples were collected from GP-5 and GP-6 on October 26, 1995. The groundwater samples were analyzed for VOCs. The soil boring logs and borehole abandonment forms are presented as Attachment 1.

State of Wisconsin Department of Natural Resources December 14, 1995 Page 2

Review of the soil analytical results (Table 1) indicates that no VOCs were detected in the samples from three of the soil borings (GP-2, GP-5, and GP-6). These borings were located south, northeast, and north of the former disposal area, respectively. The soil sample collected from one to three feet below ground surface (bgs) in boring GP-1 (drilled in the former disposal area in August 1994) contained Tetrachloroethene (PCE) at a concentration of 0.079 milligrams per kilogram (mg/kg), and o-Xylene at 0.0014 mg/kg. The soil sample collected from five to seven feet bgs in boring GP-1 contained PCE at 2.7 mg/kg. The soil sample from boring GP-3 (seven to nine feet bgs) contained n-Butylbenzene at 0.0015 mg/kg; while the soil sample from nine to 11 feet bgs in boring GP-4 contained PCE (0.0093 mg/kg) and cis-1,2-Dichloroethene (0.028 mg/kg). The latter compound can result from the degradation of PCE. The spatial distribution of soil analytical results indicates that the lateral extent of impacted soil has not been delineated north and west of the former disposal area. The soil analytical results are summarized on Table 1, and the laboratory analytical reports are presented as Attachment 2.

Review of the groundwater analytical results (Table 2) indicates that VOCs were detected in samples from four of the six geoprobe borings. PCE was detected in the groundwater samples from GP-1 [42 micrograms per liter (μ g/l)], GP-2 (13 μ g/l), GP-3 (50 μ g/l), and GP-4 (14 μ g/l). Two degradation products of PCE, Trichloroethene (TCE) and cis-1,2-Dichloroethene, were detected at 2.2 μ g/l and 6.2 μ g/l, respectively, in the groundwater sample from boring GP-4. TCE (1.0 μ g/l) and Toluene (7.2 μ g/l) were also detected in the groundwater sample collected from boring GP-1. No VOCs were detected in the groundwater samples collected from boring GP-5 and GP-6, indicating that the lateral extent of impacts to the east and northeast of the former disposal area have been defined. However, the spatial distribution of the groundwater analytical results indicates that the lateral extent of impacted groundwater has not been delineated north, south and west of the former disposal area. The groundwater analytical results are summarized on Table 2, and the laboratory analytical reports are presented as Attachment 2.

State of Wisconsin
Department of Natural Resources
December 14, 1995
Page 3

Groundwater samples collected from geoprobe borings are generally used for screening purposes. Because geoprobe borings are not NR 141 compliant monitoring wells, in a strict sense the analytical results from geoprobe groundwater samples should not be compared to NR 140 Groundwater Enforcement Standards (ES). Because geoprobe borings do not have a filter pack, and are not developed prior to sampling, the groundwater samples collected from them are generally very silty. Many organic compounds readily adsorb to silt particles. For this reason, the concentration of these organic compounds may be biased high in silty groundwater samples.

In several instances within Sigma's experience, a NR 141 monitoring well was installed adjacent to a geoprobe boring. The groundwater sample from the monitoring well had very low VOC levels, while the groundwater sample from the adjacent geoprobe boring had VOC concentrations which were several orders of magnitude higher.

Sigma recommends that another phase of investigation, consisting of the installation and sampling of four to five monitoring wells, be conducted to delineate the extent of impacted soil and groundwater.

If you have any questions or comments, please contact me at (414) 768-7144.

Sincerely,

SIGMA ENVIRONMENTAL SERVICES, INC.

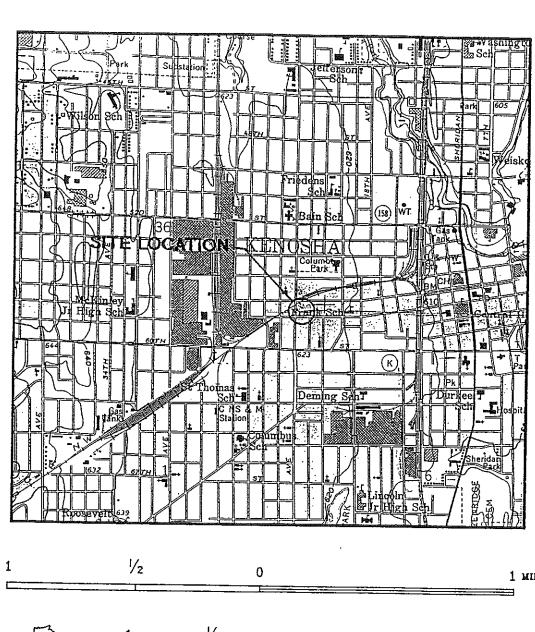
Stephen M. Owens, P.G. Project Hydrogeologist

SMO:mk

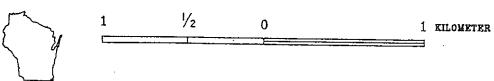
Attachments

			TABLE 1				
SUMMA	ARY OF SOI	IARY OF SOIL ANALYTICAL RESULTS - DETECTED COMPOUNDS	AL RESULT	S - DETECT	ED COMPO	ONDS	
	4	ARCTIC LAUNDRY AND CLEANERS	NDRY AND	CLEANERS			
		5619	5619 22ND AVENUE	IUE			
		KENOS	KENOSHA, WISCONSIN	NSIN			
		Project	Project Reference #2371	2371			
		7704-11	***************************************	Sample ID			
Laboratory	GP-1	GP-1	GP-2	GP-3	GP-4	GP-5	GP-6
	1-3.	5-7'	7-9'	7-9'	ა -11-	11-13	13-15
Analysis			a	Date Collected	- Di		
(in mg/kg)	08/23/94	08/23/94	10/20/95	10/20/95	10/20/95 10/20/95	10/20/95	10/20/95
Tetrachloroethene (PCE)	0.079	2.7	<0.001	<0.001	0.0093	11	<0.001
o-Xylene	0.0014	< 0.001	< 0.001	<0.001	<0.001	<0.001	<0.001
n-Butylbenzene	<0.001	< 0.001	< 0.001	0.0015	< 0.001	<0.00	************************************
cis-1,2-Dichloroethene	< 0.001	< 0.001	< 0.001	<0.001	0.028	<000 0 1000 1000 	<000V
KEY: Sample depths in feet below ground surface	hs in feet be	elow ground	surface				0000
mg/kg = milligrams per kilogram {equivalent to parts per million (ppm)}	ligrams per	kilogram (ec	quivalent to	parts per mi	llion (ppm)}		
< = not dei	tected above	e the detecti	ion limit (the	numerical \	zalue followi	< = not detected above the detection limit (the numerical value following the < symbol)	mbol
NOTES: Samples analyzed for Volatile Organic Compounds (EPA Method SW 8021).	lyzed for Vo	latile Organ	ic Compoun	ds (EPA Met	thod SW 80	21).	• - -
Only detected compounds are included in this table	d compound	ds are includ	led in this ta	he.		x	

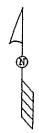
						Groundwater Quality Standarde	Spino Amp	Q	-	1 (C.D	0.5	68.6	, r							
	MPOUNDS					Groundwater O.		ŭ.)	C 1	0.0	2.0	343	70	,						
	DWATER ANALYTICAL RESULTS - DETECTED COMPOUNDS						GP-6		10/26/95	0.51	? (0.1.0	<1.0	V 1.0	billion (nnh)						
	SULTS - DE	CLEANERS	E	NISI	2371		GP-5		10/26/95	0 - 1	200	0.1.0	<1.0	<1.0	to parts per					3W 8021)	
TABLE 2	LYTICAL RE	ARCTIC LAUNDRY AND CLEANERS	5619 22ND AVENUE	KENOSHA, WISCONSIN	Project Reference #2371	Sample ID	GP-4	Date Sample Collected	10/20/95	22		#-	<1.0	6.2	equivalent	roethene)	•			EPA Method	
	ATER ANA	SCTIC LAUN	5619	KENOSH	Project F	Samp	GP-3	Date Sampl	10/20/95	<1.0	EO	20	<1.0	<1.0	J/l) which is	or Tetrachlo	ed in ppb)		tandard) spunodwo	ed in this table.
	GROUNDW	Ą					GP-2		10/20/95	< 1.0	12	2	<1.0	<1.0	per liter (ug	synonym f	ard (express	Limit	orcement St	e Organic C	re included i
	SUMMARY OF GROUN						GP-1		08/25/94	1.0	CT	ı	7.2	<1.0	micrograms	Perchlorothylene (a synonym for Tetrachloroethene)	Enforcement Standard (expressed in ppb)	= Preventative Action Limit	= Exceeds WDNR Enforcement Standard	d for Volatil	ompounds a
	ins .						Laboratory	Analysis	The second secon	Trichloroethene (TCE)	Tetrachloroethene (PCE)		l oluene	cis-1,2-Dichloroethene	KEY: All results are in micrograms per liter (µg/l) which is equivalent to parts per billion (nnh)	PCE = Perchlo	ES = Enforce	PAL = Prevent	= Exceeds	NOTES: Samples analyzed for Volatile Organic Compounds (EPA Method SW 8021).	Only detected compounds are include



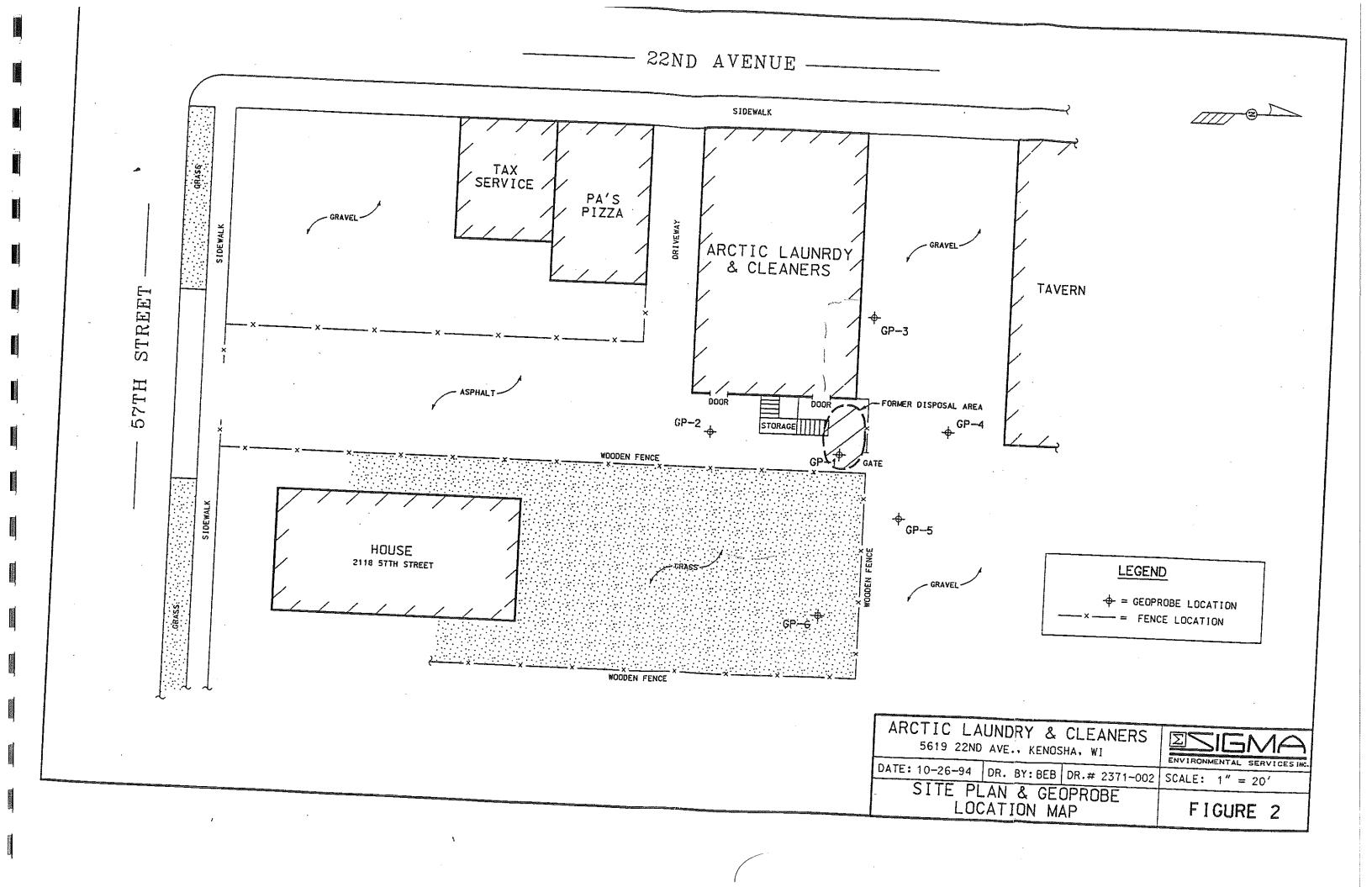




ADAPTED FROM U.S.G.S. T.S HINUTE SERIES. KENOSHA. WISCONSIN QUADRANGLE



	561	19 22ND AVE KE		ENVIRONMENTAL SERVICES INC.
APP. B	Y:	DRAWN BY: JWH	DRAWING NUMBER	SCALE: SEE ABOVE
ļ		REV.:	2371-001	DATE: 9-23-94
		TE LOCATI	ON MAP	FIGURE 1



	of Wis rtment			esourc	es			ncy Resp	onse	□ Uı	az. W.	round	Tanks		SOII Form	L BOI 4400-	RING 122	LOG	INFO	RMA Rev	ATION 7. 5-92
-			e ne e ne e e e e e e e e e e e e e e e	The surface su	<u> </u>		Wastew Superfu		The same and safe for the same	☐ Ot						,		Page		_ of	1
Arct		indry	& Cle								Licer	ise/Pe	rmit/M	lonitori	ng Nu	mber	Bori	ng Nur	nber	GP-	1
Briol Darr	hn En en Fe	viron: rgusoi	nental n		ind nam			et)	Q		_0	<u>8</u> /_	ng Star 23 / 0 D		_0	Drillir 9 8 / M I	<u>23</u> /			prob	
DNK	leacrlit 	y Well	l No	WI Uni	ique We	ll No.	Cc	mmon W	Vell N	lame	Final	Statio	Water Feet		Surfa	ice Ele		t MSL			iameter inches
Boring State I	Local	tion	***************************************		N,_				E	S	L	at	٥	1 59	Loca	l Grid		on (If a IN	_ L		· · · · · · · · · · · · · · · · · · ·
Count		of SV	<u>V</u> 1/4	of Sect	ion	31,	Τ	2 N, R		3 E	Lon	.g		, ,,			Feet [Fe	□E et□W
	,		Kenos	ha						JNK C	30 30	Code	Civil	City o			ge				
San	nple							A () () () () () () () () () (7	Prope	erties	T.	tem (f) (** en els (senementen)
Number and Type	Length Att. & Recevered (in)	Blow Counts	Depth in Feet			And (Geologi	Descriptical Origin jor Unit			į	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			=		***************************************		and the same of th														
Tool Comments	7"	_	E-1.0 E-2.0	1.0	to 3.		Silty, C Moist.	LAY. (I	Light	brown	1).	CL			0		М				No Odors
2	17''		3.0	3.0	to 5.		-	ne, Silty, orown). l		D.		SM			0.		D		-		No Odors
3	15"		5.0	5.0	to 7.0) \$	Same as	above.	Moist	.		SIM			44.5	,	M				No Odors.
4	13"		7.0 -8.0	7.0	to 9.0			e, Silty, sh gray).				SM			0		М				No Odors.
5	6" -		9.0	9.0	to 11.0	(e B	Gray).	e, Silty, S Very mo Cerminat	ist to	wet.		SM			0		M/W				No Odors.
l hereb	y cer	tify t	-12.0	ne info	ormati	on o	n this	form is	s true	e and	corr	ect t	o the	best	of m	у кпо	wled	je.			-
Signatur					ens					Fin	m S	igma	a Env Rd., Oa	'ironi	nent	al Se	rvice	s, In	i c. 7144		ATTACA
This form than \$10 both for e	nor m	ore tha	an \$5,0	100 tor	each vio	olation	ı. Fine	d not less	s than	mpletic \$10 or	on of	this re	eport is	manda	tory.	Penalti	es: For	feit no	t leco		

	of Wis		n tural R	esource	25		Emer	o: Waste gency Re ewater	sponse	U	az, Wa ndergi ater R	round	Tanks		SOII Form	BOR 4400-1	ING 122	LOG	INFO	RMA Rev	TION : 5-92
**************************************				***			Super				ther _		ces			<u></u> .		Page	1	of	1_
Arct		ndry	& Clea								<u></u>		rmit/M					ng Nur		GP-2	
Brio Dan	hn En [.] Rezne	vironi r	(Firm : nental								_1		ng Star 20 / _ D D		1	Drillin 0 /	20 /			probe	
			l No.	VI Uni	que W	ell No) 	Commor	ı Well I	Name	Final -	Statio	Water _Feet l		Surfa	ce Elev		t MSL	Borel 1.0		iameter inches
State I			V 1/4	of Sact	N,	31	T	2 N		E S 23 E		at	0	1 11	Loca	l Grid I		N	pplicat	•	ЩE
County	_ 1/ C	//////	Kenosl		1011	,	T	2 N,	K		Lon County 30		Civil	Town/ City o		r Villag	Teet C ge	. Z 1		Fee	et 🗆 W
San	nple			Ī		Pazzer de marze participation	Kezetzgovozon		CARREST AND	Printer la presentation					IZCU	isua	Soil	Prope	erues	VIII CAN TAL III II I	
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet		ann san ann an ann an ann an ann an ann an	And (Geolo	k Descri ogical Or Major Un	igin Fo	r		uscs	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content		Plasticity Index	P 200	RQD/ Comments
1	8"		2.0	1.0	to 3		(Ligi	ly, Silty, ht yellow medium	ish br	own).	6/3	cr			0		D				No Odors.
2	8"		-3.0 -4.0 -5.0	3.0	to 5	5.0 -	Same	e as abov	/e.			CL			0		D			•	No Odors.
3	12"	_	6.0	5.0	to 7.	(olive	SAND. brown). ed, poor	Dry, fi	ine	ıt	SM		,	2.5		D				No Odors.
4	10"		8.0	7.0	to 9.	6	6-7" :	Same as Silty, CI ⁄ish brov	AY. 2.			CL			0.8		М				No Odors.
5	12" -		-10.0 -11.0		to 11.	(g H b	(Gray graine Borin b.g.s.	y, SILT. vish brov ed, poori g Termi	vn). Wally sorted a	et, Fine ed. ut 11 ft	1	SM			0.4		w				No Odors,
hereb ignatur	y cer e	tify t	hat th	ne info	ormat	ion o	on th	is form	is tru	e and	corr	ect	to the	best	of m	y kno	wled	1e.			
	, fr	en	<u> </u>	A	74/5	,				22	20 E. I	Ryan I	a Env Rd., Oa	ık Cree	ek, W	53154	4 (414	1) 768-	7144		
nus form an \$10	n is au nor m	thoriz	ed by C	hapter	s 144, each v	147 ar	nd 16	2, Wis. S	Stats, C	ompleti	on of	this r	eport is	manda	itory.	Penalti	es: For	feit no	t less		

Ti th than \$10 nor more than \$5,000 for each violation. Fined not less than \$10 or more than \$100 or imprisoned not less than 30 days or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

		ot Na		.csource	28	ב	coute 10:] Solid Wasto] Emergency			az. Wi		Tanks		Form	4400-	IING 122	LOG	INFO:		TION . 5-92
						Ω	Wastewater Superfund	•		ater F					•		Page	1	of	1
Facilit Arcti	y/Pro ic Lai	ject Na indry	ame & Cle	aners	And desired the least of the le	ATT 100	And the second	almos y y y y y y y y y y y y y y y y y y y			ise/Pe	rmit/M	onitori	ng Nu	nber	Bori	ng Nur	nber	GP-3	
Boring	g Drill	ed By	(Firm	name a	nd n	ame o	f crew chief)		······································			ng Star			Drillin					
Briot Dan			mental							$\frac{1}{M}$	$\frac{0}{M}/\frac{1}{1}$	<u>20</u> /	<u>95</u> 7 Y	$\frac{1}{M}$	$\frac{0}{\mathbf{M}} / \frac{1}{\mathbf{D}}$	<u>20</u> /-	<u>95</u> Y Y	Geo Bor	probe	e
DNRI	enculii	y Wei	l No	Wl Uni	que	Well	No. Comn	non Well	Name	Final	Statio	Water		Surta	ce Elev			Borel	iole D	iameter
Boring		tion			name and many				an in the state of	<u> </u>		_Feet l	VISL	Loca	i Grid		t MSL on (If a	1.0		inches
State F		of SV	W 1/4	of Sect		۷, 3	1, T 2 1		E S 23 E	Lor	at	_ _o	1 49] N		•	□ E et □ W
County		the street of th		***************************************	name		VI CONTRACTOR OF THE PARTY OF T	*, **	DNRC	ounty					r Villa		3 D _	× 11 11 11 11 11 11 11 11 11 11 11 11 11		21 TT AA
San	ıple		Kenos	na 		Delen Brysnessen		en commens met ent e	<u> </u>	30	1		City of	f Kend	osha I	Soil	Prope	erties		
	æ.≘	S S	i i i			5	Soil/Rock Des	cription							0	1	LADP			1
ype	Length Att. & Recovered (in)	Blow Counts	Depth in Feet			An	d Geological Each Major		or		o ₂	.g	g	A	Compressive Strength	2 to		ţi		ents
Number and Type	ccor	3low)cpth								usc	Graphic Log	Well Diagram	PID/FID	ompi	Moisture Content	Liquid Limit	Plasticity Index	700	RQD/ Comments
****		1	-	<u> </u>	***************************************	- Anna Carlo Contract		THE CONTRACTOR STREET, NAME AND ADDRESS OF THE PARTY OF T						μ.	OS	40		ਯਾਹ	<u>.</u>	AO
			-																	
1	14 "		1.0	1.0	to	3.0	Silty, CLA dark gray				CL			0		D				No Odors
			2.0				medium p													
			Ė	İ																
2	14"		-3.0	3.0	to	5.0	Silty, SAN				SM			0		D				No Odors.
			4.0				yellowish i grained, p			е										
			E																	
3	16"		-5.0	5.0	to	7.0	Silty, SAN		5/3		SM			0		D				No Odors.
	j		6.0				(Brown), L	ry.												
			=										,					l		
4	18'''		7.0	7.0	to	9.0	Silty, SAN	D. 2.5Y 5	5/2		SM			0		D				No Odors.
			E -8.0				(Grayish b	rown). D	ry.											
			-0.0																	
5	_		9.0	9.0	to .	11.0	Same as ab	ove.	- Chillian May 1 - 12		SM			0		D				No Odors.
			-				Boring Ter		at 11 ft											140 Ógota:
	ĺ		10.0				b.g.s.											Ì		
Ц			11.0					······································												
	İ																			
hereb	y ce	rtifv	-12.0 that t	he inf	orm	ation	on this fo	rm ie tr	TIE and	1 COT	rect	to the	host	0+ ~	V kee	10100				
Signatur	e /	2	_/	` ≪/ ×	-yı .	/	TOTAL CITE TO	UBLIO (Fir	m S	igm	a Env	iron	ment	tal Se	rvice	es, In	ıc.		
This for	n is a	uthorn	zed by	 Chapte	<u>//.</u> rs 14	y 4, 147	7 and 162, Wi	s. Stats. (Complet	ion of	this r	Rd., O	manda	itory.	Penalti	es Fo	rfeit no	t less		a didde
man 210	nor r	nore ti	1an 35,	000 for	each	ı viola	tion. Fined ned violation is	ot less th	an \$10 c	or mor	e thai	1 \$100 d	ar impr	isoned	not le	ee than	30 da	ys or	•	
	/							-1					/ U	17	11		·~·		····	ACCOMPANIES AND ACCOMPANIES AN

State of Wisconsin Route To: Department of Natural Resources Solid Waste	Haz. Waste				BOR: 4400-1		LOG	INFO)	RMA'	TION . 5-92
☐ Emergency Response ☐	Underground			1 01111	7 100-1				ICCY.	. J -9 4
	Water Resou	ırçes					Page	1	of	1
Facility/Project Name Arctic Laundry & Cleaners	License/F	ermit/M	onitorii	ıg Nur	nber	Bori	ng Nun	iber	GP-4	
Boring Drilled By (Firm name and name of crew chief)	Date Dril	ling Star	ed	Date	Drilling	Com	pleted			
Briohn Environmental Dan Rezner		20 /		1	$\frac{0}{\mathbf{M}} / \frac{2}{\mathbf{D}}$	20_/	<u>95</u> _	Geo	probe	
Dan Rezner DNR-Facility Well No. Wildingue Well No. Common Well Name	ł				m D		ΥΥ	Bore		iameter
		Feet N					t MSL	1.0		inches
Boring Location State Plane N, E S	Lat	٥	1 11	Local	Grid L		n (If ap IN	plicab	le)	
SW 1/4 of SW 1/4 of Section 31, T 2 N, R 23 E	~ —	•	"			eet 🗀			Fee	□ E et□ W
County DNR Kenosha	County Coc		Town/C City of			e				
Sample			Cary Or	IXCHU		Soil	Ргоре	rties	printer il little become	
왕 🗒 🙎 🔞 Soil/Rock Description					υ					
Number and Type Length Att. & Recovered (in) Blow Counts Depth in Feel Each Major Unit	S	l _s	[Compressive Strength	5.7		τŢ		ants
Number And Geological Origin For Each Major Unit Depth in P Country Each Major Unit	SC	[품	Well Diagram	PID/FID	mpr	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
Za ZZ m O	Þ	<u>193</u>	ĕĞ	PI	ರ <i>ಪ</i>	Σర	EE	Eğ	<u>.</u>	≊రి
1 14" - 1.0 1.0 to 3.0 Sandy, GRAVEL 2.5Y	3/1 GM	1 6035%		O		D				No Odors.
(Very dark gray). Dry, f		188								110 Ouois.
type soil.		20			l				:	
3.0										
2 8" — 5.0 3.0 to 5.0 Same as above. [wood fragments]	GM			0	1	D				No Odors.
-4.0		Jô ù	1		ľ					
							1	Ī		
3 2" 5.0 to 7.0 Same as above.	GM	0.05	ļ	0		D				No Odors.
	:	1.88.1	Ì		İ					110 020151
-6.0		801.0	1							
7.0		000	-			l				
4 8" 7.0 to 9.0 Silty, Sandy, GRAVEL 5/2 (Grayish brown). Dr			ı	0		D				No Odors.
E-8.0	,	\$0.0								
						ļ				
5 - 9.0 9.0 to 11.0 Silty, SAND. 2.5Y 5/2	SM	000		0		w				No Odors.
(Grayish brown). Wet, fi										0
Boring Terminated at 11 b.g.s.	. IE		Ì		1					
11.0										
					ļ					
I hereby certify that the information on this form is true a Signature	nd correct	to the	best	of m	y kno	wled	ge.	L		
Signature Sont AM	Firm Sign 220 E. Ryar	n a £ny 1 Rd., Oa	i ron i ik Cree	nent k, W	a. Se : [53154	rvice 4 (414	:s, 11 1 1) 768-	i c. 7144		
This form is authorized by Chapters 144, 147 and 162, Wis. Stats. Complian \$10 nor more than \$5,000 for each windsting. Find the state of the state	letion of this	report is	manda	itory.	Penalti	es: Fo	rfeit no	t less	,	Control of the Contro
than \$10 nor more than \$5,000 for each violation. Fined not less than \$1 both for each violation. Each day of continued violation is a separate offer	o or more the ense, pursuar	it to ss 14	or impr 14.99 a	isoned nd 162	not les 2.06, W	is than	ı 30 day ıts.	ys or		

State of Depart	ment	consin of Nat	ural Re	source	es		oute 10: Solid Waste Emergency Respons		laz. Wa Indergr		Conka			4400-1		LOG	INKOI		5-92
							Wastewater Superfund	\square W	Vater R Other							Page_	1	of	2_
Facilit Arcti			me & Clea	ners		Mary de la				se/Per	mit/Mo	nitorii	ıg Nur	nber	Bori	ıg Nun	iber	GP-5	
_		•	(Firm r nental	iame a	nd nam	ie of	crew chief)	PH-10-10-10-10-10-10-10-10-10-10-10-10-10-			ig Start 20 /			Drilling 0 / 2				ng Me probe	
Dan l	Rezne	r							M	M D	\overline{D} \overline{Y}	Ϋ́	M	M D	D 3	ŹŸ	Bori	ng	
DNR I	acility	y Well	No.	VI Uni	que We	ell N	o Common Well	Name	Final	Static	Water _Feet N		Surfa	ce Elev		MSL	Boreh		iameter nches
Boring State P		ion			N.	*******		E S	La	nt.	9 1	11	Loca	Grid I		n (If ap N	plicab	le)	ΠE
sw	1/4 o	f SV	V 1/4	of Sect			,T 2 N, R	23 E	Lon	g)!			eet 🗆			Fee	t□W
County	,		Kenosl	12				DNR (County 30	Code		City of			ge				
Sam					Accesses to the second		tide 200 fg. f. Org. (1884 and 1884 and 1884 and 1884 and 1885 from 1884 and 1885 and 1885 and 1885 and 1885 a	_	<u> </u>						Soil	Ргоре	rties	1	
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet			And	oil/Rock Description Geological Origin F Each Major Unit	or		uscs	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
							and a grant learning and a second and a second and a second and a second and a second and a second and a second	nggyðu máldadskjungðu um											
1	14"		-1.0 -2.0	1.0	to 3	3.0	Silty, CLAY. 2.5Y yellowish brown). medium plasticity	Dry,		CL			0		M				No Odors.
2	24"		3.0	3.0	to 5	5.0	Silty, CLAY. 2.5Y olive brown). Dry, plasticity, mottling	mediur		CL			0		M				No Odors.
3	20"	<u>-</u>	5.0	5.0	to 7	.0	Clayey, Silty, SAN 5/3 (Light olive br Dry. [4" silty sand 6.5 ft b.g.s.]	own).		SM		,	0		α				No Odors.
4	18"		-7.0 -8.0	7.0	to 9	.0	Silty, SAND. 2.5Y (Grayish brown).			SM			0		M				No Odors.
5	20"		10.0	9.0	to 11	1.0	0-6" Sandy, Grave CLAY. 6-18" Silty, SAND		y,	SM			0		М				No Odors.
6	18"		11.0		to 13		Same as above.			SM			0		М				No Odors.
l herel Signatu	ov ce re	rtify	that t	he int	forma	tion	on this form is		in S								nc.		
Security of the second design of the second design of		20	u	<u> 9</u>	4_7		() 160 W = G		220 E.	Rvan	Rd., O	ak Cre	ek, V	T 5315	4 (41	4) 768	-7144		famou (pp. 2005)005 a.e.
than \$10) nor 1	nore t	han \$5,	000 fo	r each v	viola	and 162, Wis. Stats. tion. Fined not less t	than \$10	or mo	re thai	1 \$100	or imp	risone	d not le	ss tha	n 30 da			
ooth for	each	violati	on. Ea	ch day	of cont	linue	d violation is a separ	ate offer	nse, pu	rsuant	to ss 1	44.99	and 16	2.06, V	Vis. St	ats,	energia Mandadorena		Special region from the region (

State of Wisconsin Department of Natural Resources Boring Number GP-5

SOIL BORING LOG INFORMATION SUPPLEMENT Form 4400-122A Rev. 5-92

Use only as an attachment to Form 4400-122.

GP5 Page_ 2 of ___

Sample Soil Properties Compressive Strength Blow Counts Depth in Fect Soil/Rock Description Length Att. And Geological Origin For Plasticity Index Well Diagram Moisture Content USCS Graphic Log PID/FID Each Major Unit Liquid Limit P 200 13.0 14.0 15.0 16.0 17.0 19.0 19.0 122.0 123.0 124.0 124.0 125.0 124.0 125.0 125.0 126.0 127.0 128.0 129.0 12 18" 13.0 to 15.0 SM M/W Same as above. 0 No Odors. 8 18" 15.0 to 17.0 SM Same as above. 0 M/W No Odors. Boring Terminated at 17 ft b.g.s.

State (Depar				lesourc	es		oute To: Solid Waste Emergency Respons	se 🔲 U	łaz. Wa Indergr	ound			SOU Form	BOR 4400-1	ING 22	LOG	INFO:	R MA Rev	TION : 5-92
							Wastewater Superfund		Vater R Other	esour	ces			,		Page	1	of_	2
Facilit Arcti			ame & Cle	aners			-		Licer	ise/Pe	rmit/M	onitoru	ng Nu	nber	Bori	ng Nur	aber	GP-	6
Briol		viron.	(Firm menta		and nam	e of	crew chief)		1 _1		ng Star 20 / DD '		1	Drillin 0 / 2 M D	<u>20</u> /_		Drilli	ng Mo prob	ethod
DNRI	acilit	y Wel	l No.	WI Un	ique We	il N	o. Common Wei	Name	Final	Static	Water Feet N		Surfa	ce Elev		t MSL	Borel 1.0		iameter inches
Boring State I	lane		W 1/4	of Sec	N,		, T <u>2</u> N, R	E S 23 E	Lon	at	•) II	Loca	Grid I	ocatio	on (If a	. —	ole)	DE EDW
County				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			, <u> </u>		County		Cívil			r Villag		10 -		rec	:LLI W
San	iple	an Samuely Science or	Kenos	na	Holistorijima v mežiržene žiližirijimos	mesionipis	approxima anno amporto i estado telefonido escendo en esta estado en estado en estado en estado en estado en e Contractor en estado en estado en estado en estado en estado en estado en estado en estado en estado en estado		30	HINDRAY) NOTATI	ing and a second second second second second second second second second second second second second second se	City of	Kend	sha I	Soil	Prope	erties	Antonia (mining panga	
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet			And	oil/Rock Description Geological Origin F Each Major Unit	or		uscs	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content		Plasticity Index	P 200	RQD/ Comments
3 4 5	24" 20" 14"		1.0 -2.0 -3.0 -4.0 -5.0 -6.0 -7.0 -10.0	3.0 5.0 7.0	to 7.	0	0-12" Gravelly, Si 2.5Y 5/3 (Light olibrown). Dry. 12-24" Silty, SAN Silty, CLAY. 2.5Y olive brown). Dry, plasticity, mottling 0-12" Same as abo 12-24" Silty, SAN (Light olive brown). I Silty, SAND. 2.5Y (Grayish brown). I	ive D. 5/3 (Li low g. ve. D. 2.5Y). Dry.	ght	SM SM SM			0		D D M				No Odors. No Odors. No Odors.
heren		rtifv	-12.0					rile e-	d som	ļ		h •							No Odors.
Signatur	e e	ouly solution	uiat (ve iii	omati	<u>1011</u>	on this form is t	Fi	irm S	igm	a Env	'iron	ment	al Se	rvice	es, Ir	ıc.) - - - - - - - - - - 	and the second second
man 210	nor n	nore ti	ıan 55,	000 for	r each vi	iolati	and 162, Wis. Stats. ion. Fined not less the violation is a separa	Comple	tion of or mor	this r	: \$100 d	manda or impr	itory. isoned	Penalti not les	es: For	rfeit no	t less		thintlerics and trains

Form 4400-122A

Use only as an attachment to Form 4400-122.

GP-6 Page 2 of

Sample Soil Properties Length Att. & Recovered (in) Blow Counts Depth in Fect Compressive Strength Soil/Rock Description And Geological Origin For Well Diagram Moisture Content Plasticity Index PID/FID Graphic Log USCS Each Major Unit Liquid Limit P 200 13.0 14.0 15.0 16.0 17.0 19.0 19.0 19.0 10.0 24 SM 13.0 to 15.0 Same as above. 0 W No Odors. Boring Terminated at 15 ft b.g.s.