Phase II Subsurface Investigation

at

Perry Property 988 – 1020 Willard Dr. Parcel VA-120-5 Ashwaubenon, Brown County, WI

for

Wisconsin Department of Natural Resources 2984 Shawano Ave. Green Bay, WI 54313-6727

February 23, 2015

N2162B14

Don Brittnacher OMNNI Associates One Systems Dr. Appleton, WI 54914

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Appendix

EXECUTIVE SUMMARY

OMNNI Associates has performed a Phase II subsurface investigation on the property at 988 – 1020 Willard Dr., Ashwaubenon, WI. The project was intended to determine soil PCB concentrations resulting from past disposal of fill materials on the property. Three 5.5-foot borings were installed. Upper and lower soil samples were tested from each boring.

Obvious fill materials were found in two of the borings, along with PCBs. In boring B3, placed in the center of the western half of the property, the concentrations of a number of arochlors exceeded their respective non-industrial direct-contact residual contaminant levels (RCLs). The concentrations in the 3 - 4 foot interval were an order of magnitude higher than in the 1 - 2 foot interval.

In both boring B3 and boring B1, placed in the southeastern corner of the property, the level of total PCBs exceeded the groundwater pathway RCL.

INTRODUCTION/BACKGROUND

The subject property is located at 988 – 1020 Willard Dr., Ashwaubenon, in the SE ¼ of the SE ¼ of section 4, T23N, R20E, Brown County, WI. (See Site Location Map, Appendix 1.) The property consists of tax parcel VA-120-5.

The subject property is part of a larger land parcel, which was initially a farm field. In the 1930's, the subject property and off-site land to the south were excavated as a borrow pit, and then later used by a paper mill as a waste disposal area. Elevated PCB levels have been found in the surface soils on the land to the south of the subject property.

The Wisconsin DNR has requested OMNNI to install three borings on the subject property to determine soil PCB concentrations.

The following are the primary contacts for the project:

- Client: Wisconsin DNR, 2984 Shawano Ave., Green Bay, WI 54313-6727: (920) 662-5164. Contact: Bob Klauk.
- Consultant: OMNNI Associates, One Systems Drive, Appleton, WI 54914; (920) 735-6900. Contact: Don Brittnacher.
- Driller: Horizon Construction and Exploration, 1402 7th Avenue, Grafton, WI 53024-2330; (262) 377-2896.
- Laboratory: Pace Analytical Services, 1241 Bellevue Street, Suite 9, Green Bay, WI 54302; (920) 469-2436.

GEOLOGY AND HYDROGEOLOGY

The geology and hydrogeology of the area were determined by studying existing geologic, topographic, hydrogeologic, and soil maps, and by obtaining information during the present investigation.

Based on maps and information included in "Water Resources of Wisconsin – Fox-Wolf River Basin" by P. G. Olcott (1968), the pre-development surface soils in the area are glacial lake deposits, consisting of clay, silt, and sand. The subject property was once farmed, and later was part of a larger borrow site, and subsequently a fill site. Significant filling has taken place on the property. Dolomite bedrock is expected to be approximately 90 feet below the ground surface at the site.

The topography at the site is flat. (See Topographic Map, Appendix 1.) In the area, the topography slopes to the east-southeast towards the Fox River, located 1.4 miles from the subject property.

The depth to groundwater at the site is expected to be 4-8 feet below the ground surface. The shallow groundwater flow direction is assumed to be to the east towards the Fox River.

The pre-development soil at the site consisted of Kewaunee silt loam, which is a welldrained soil.

FIELD ACTIVITIES

On February 12, 2015, OMNNI coordinated the installation of three geoprobe soil borings (B1 – B3) on the subject property. (See Site Detail Map, Appendix 1.) Boring B1 was placed in the southeast corner of the parcel, on the east side of the garage. Boring B2 was installed between the two building complexes on the east end of the site. Boring B3 was placed west of the northwest corner of the site's north central parking lot.

The borings were installed to a depth of 5.5 feet. (See Soil Boring Log Information Forms, Appendix 3.) Groundwater was not encountered.

Soil samples were obtained from the 0.5 – 3 foot interval, and the 3 – 5.5 foot interval for field screening with a photoionization detector (PID). Representative portions were also collected for laboratory analysis of PCBs. (See Handbook of Field Procedures, Appendix 4.)

The boreholes were properly abandoned. (See Borehole Abandonment Forms, Appendix 3.)

FIELD AND ANALYTICAL RESULTS

The soil in boring B1 consisted of six inches of topsoil over 2.5 feet of fill material, which included silty clay, clay, and silty sand. Sand was present from 3 – 5.5 feet. No elevated headspace readings were detected in the boring. (See soil boring log for details, Appendix 3.)

The soil in boring B2 consisted of a one-foot layer of topsoil over red-brown clay to 5.5 feet. No elevated headspace readings were observed.

The soil in boring B3 consisted of one foot of topsoil over 1.5 feet of silty clay, sand, and gravel fill material, which was underlain by a foot of black fly ash. A greenish-gray silty clay layer was present from 3.5 - 5 feet, which was underlain by native clay. The discoloration in the 3.5 - 5 foot interval appeared to be contaminant-related. No elevated headspace readings were detected in the boring.

No petroleum odors were detected in any of the borings.

Based on laboratory analytical results, elevated PCB concentrations were found in borings B3 and B1. In boring B3, the concentrations of a number of arochlors exceeded their respective non-industrial direct-contact residual contaminant levels (RCLs). (See Table 1 – Summary of Laboratory Analysis, Soil Samples, Appendix 2, and Laboratory Analysis Results and Chain of Custody Documentation, Appendix 5.) The concentrations in the 3-4 foot interval in this boring were an order of magnitude higher than the concentrations in the 1-2 foot interval.

In both borings B1 and B3, the total PCBs level exceeded the groundwater pathway RCL.

CONCLUSIONS

The Phase II environmental site investigation was intended to determine soil PCB concentrations on the subject property, resulting from past disposal of fill materials on the property. Three 5.5-foot borings were installed. Upper and lower soil samples were tested from each boring.

Obvious fill materials were found in two of the borings, and PCBs were also identified in these borings. In boring B3, placed in the center of the western half of the property, the concentrations of a number of arochlors exceeded their respective non-industrial direct-contact residual contaminant levels (RCLs). The concentrations in the 3 - 4 foot interval were an order of magnitude higher than in the 1 - 2 foot interval.

In boring B3, as well as in boring B1, placed in the southeastern corner of the property, the level of total PCBs exceeded the groundwater pathway RCL.

STANDARD OF CARE

The conclusions presented in this investigation were arrived at using generally accepted hydrogeologic and engineering practices. The conclusions presented herein represent our professional opinions, based on the data collected at the time of the investigation, at the specific boring and sampling locations discussed in this report. Conditions at other locations on the property may be different than described in this investigation. The scope of this report is limited to the specific project and location described herein.

Prepared By:

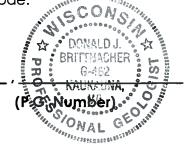
Don Brittmacher

Don Brittnacher, P.G., P.E, Hydrogeologist, Engineer

"I, Don Brittnacher, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

Don Brittmacher

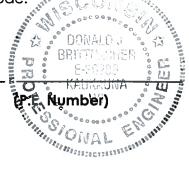
(Professional Geologist)



I, Don Brittnacher, certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

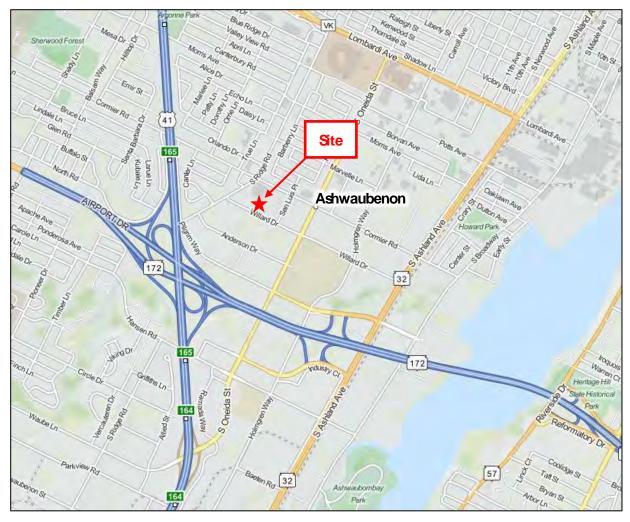
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(Professional Engineer)

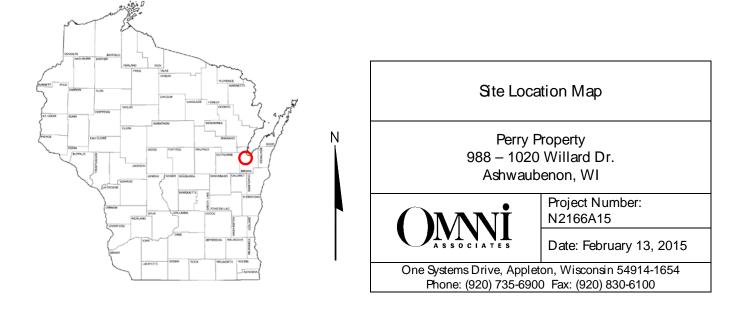


APPENDIX 1

FIGURES



Source: Mapquest, reviewed 2/13/2015.



VA-99 1001 CORMIER RD TARGET CORP T 1247

a

VA-120-9 1030 WILLARD DR BARKER LAFOND PROPERTIES LLP

> VA-120-5 988-1020 WILLARD DR CHARLES & MARILYN PERRY

B1

B2

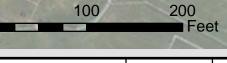
VA-120-8 980 WILLARD DR MCOOK PROPERTIES LLC

VA-120-4 964 WILLARD DR 43 APPLE HILL LLC

VA-129-1 2391 S RIDGE RD ASHWAUBENON SCHOOL DISTRICT 1

Willard Dr

B3





0

ASHWAUBENON INVESTIGATION SITE DETAIL MAP

 Project Manager:
 BDW
 SCALE:

 Project Engineer:
 DJB
 1 " = 100 '

 Drawn By:
 JCW
 PROJECT NO.

 Checked By:
 DJB
 N2166A14

 Date:
 2/23/2015
 FIGURE NO.

 A-1
 A-1

980 WILLARD DRIVE VILLAGE OF ASHWAUBENON, BROWN COUNTY, WISCONSIN

Topographic Map



Note: Contour interval is two feet.

APPENDIX 2

TABLE

TABLE 1 SUMMARY OF LABORATORY ANALYSIS SOIL SAMPLES

Boring &	Sample		PID	PCBs (ug/kg)												
Sample	Date	Depth (feet)	(iui)	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs, Total					
Non-indus	trial RCL			3,930	159	159	221	221	221	221	-					
Groundwater Pathway RCL				-	-	-	-	-	-	-	9.4					
B1-1	2/12/15	1 - 2	0	< 32.7	< 32.7	< 32.7	< 32.7	< 32.7	199	126	325					
B1-2	2/12/13	3 - 4	0	< 27.7	< 27.7	< 27.7	< 27.7	< 27.7	< 27.7	< 27.7	< 27.7					
B2-1	2/12/15	1 - 2	0	< 30.4	< 30.4	< 30.4	< 30.4	< 30.4	< 30.4	< 30.4	< 30.4					
B2-2	2/12/15	3.5 - 4.5	0	< 30.1	< 30.1	< 30.1	< 30.1	< 30.1	< 30.1	< 30.1	< 30.1					
B3-1	2/12/15	1 - 2	0	< 28.9	< 28.9	< 28.9	< 28.9	227	224	136	587					
B3-2	2/12/15	3 - 4	0	< 126	< 126	< 126	< 126	2,550	1,270	1,170	4,990					

Notes: RCL = Residual contaminant level

BOLD entry indicates that concentration detected above non-industrial RCL

Italics entry indicates that concentration detected above groundwater pathway RCL

APPENDIX 3

DNR FORMS

State of Wisconsia Department of Natural Resources

SOIL BORING LOG INFORMATION Form 4400-122 Rev. 7-98

Route Ter Watershei/Wastewater 🔲 Waste Management 🛄 Remediation/Revelopment Other

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	Crid C	light		timated:) or Bar	ing Location D B S/C/I			0 1		Local		Feet N				ches
						B S/C/			• •			Fe					
Feellin	yD			Co	Bro		County C	3	CM	Gwa/	City/ a	Villa	0				
Sam	ple		1		010	wn				175	hwa	4 De		Tope	rties		
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet		And Geol Each	ik Description ogie Origin For Major Unit		uscs	Cemphic Log	Well Diagram	PID/FID	Compressive Strength	8	Liquid Limit	Planticity Index	P 200	RQD
* -			ساسب		-brow	n siltycla clay fill	r fill				Ø		d				
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This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsia Department of Natural Resources

SOIL BORING LOG INFORMATION Form 4400-122

Rev. 7-98

Route Ter Wetershei/Wastewater 🔲 Waste Management 🔲 Remediation/Revelopment 1 Other

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Pecilit			_	County Bro	wn	County C	25	CIVE			4 be					
Sam			,Î	Soi/Ro	sk Description								Tope	ties		
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SOIL BORING LOG INFORMATION Form 4400-122 Rev. 7-98

Rotte To: Watershed/Wastewater 🔲 Waste Management 🔲 Remediation/Revelopment I Other

P		y/Proj			Dr. Ashwaubenon	Licens	r/Pag	W.Ma	ltarin	, Num			Page Numb B 3	1	of	<u> </u>
	Plan N Plan	Ho	nizo	Nem	s of crew chief (first, last) and Firm Last Nume	Date Drilling Started <u>21124015</u> mm/d/y/y/y/y				Date Drilling Completed						
		dque V	_		timated: D) or Boring Location D N. Boring Location	Final Static Water Level Feat MSL				Surface Elevation Feet MSL Local Orid Location				Borehole Diameter		
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		4 (i)	Blow Counts	Depth in Ford	Soil/Rock Description And Geologis Origin For Each Major Unit		USCS	Graphic Log	Wall Diagram	PLD/FLD	Compressive Strength	Mointure Content	Liquid Limit	Plasticity Index	P 200	RQDY Comments
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This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wis., Dept. of Natural Resources dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page

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	Verification Only of Fill and Seal Verification Information						Wastewater	Remed	liation/Redevelopment
		gr- 1,82	9		2. Facility	/ Owner Ir	nformation	1 36	
Brown WI Unique Removed	e Well # of d Well 	Hicap Bo	# Fing E	31		Willard	(Dr., Ashwai	u benor	า
Latitude / Longitude (Degrees and Mir	nutes) Me	thod Code	(see instri	uctions)	-Facility ID (F	ID or Pvv5)			
°	'N				License/Perr	nit/Monitoring	1#		
%1% SE % SE	Section	Township	Range	RΓE	Original Well			T	
or Gov't Lot #	4	23	N 20	₽°	Charles	& Marily	n Perry Living	Irust	-
Well Street Address					Drocont Woll	Owner	in Perry Livin		
988-1020 Willard D	r.							girus	Γ
Well City Village or Town		We	II ZIP Cod	e		ess of Preser			
Ashwanbenon			54304				y Terrace	1	
Subdivision Name		Lot	#		City of Prese			State	ZIP Code 53122-1607
Ashview Terrace Apt	3.				Elm Gi			WI	
Reason For Removal From Service	WI Unique	Well # of F	Replaceme	ent Well	4. Pump, I	Liner, Scre	en, Casing & Seali	ng Matei	
no longer needed			<u> </u>		Pump and	piping remov	ved?		
3. Well / Drillhole / Borehole In			20		Liner(s) re	moved?		Ū,	
Monitoring Well	iginal Constru			ууу)	Screen re	moved?			Yes No N/A
	02/12	./ 201.	5		Casing lef	t in place?		`	
Water Well	a Well Const	truction Re	port is ava	ailable,	Was casir	ng cut off belo	w surface?		Yes No XN/A
	lease attach.				Did sealin	g material rise	e to surface?	\boxtimes	
Construction Type:		— 1			Did mater	ial settle after	24 hours?		
Drilled Driven (Sa	· ·		ug		If yes,	was hole rete	opped?	Ū	
Other (specify): <u>geoprot</u>	<u>e</u>				If bentonit	e chips were	used, were they hydra n safe source?	ated	
Formation Type:							ng Sealing Material		Yes No KANA
Unconsolidated Formation	Пв	edrock				ctor Pipe-Gra		Pipe-Pump	ed
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5,5			()		(Bento Sealing Mate	nite Chips) rials		<u> </u>	
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ર		-				Cement (Con			-Sand Slurry " "
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If yes, to what depth (feet)?	Depth to W						Monitoring Well Boreh	-	
		> 5.5				ite Chips		ite - Ceme	
	l				Granul	ar Bentonite		ite - Sand	
5. Material Used To Fill Well / Drillh	ole	<u>. </u>			From (ft.)	To (ft.)	No. Yards Sacks or Volume (circle	e one)	Mix Ratio or Mud Weight
Bentonite					Surface	5,5	Y3		
6. Comments								-	

7. Supervision of Work	DNR Use Only					
Name of Person or Firm Doing Filling & Sealing OMNNI Associates	Licen	se #	Date of	Filling & Sealing (mm/dd/yyyy)	Date Received	Noted By
Street or Route One Systems Dr.				Telephone Number (920) 735 - 6900	Comments	
City Appleton	State W (ZIP Code 54914	ť	Signature of Person Doing W Don Brittmach	//	Date Signed

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Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 7

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			Route to:					·					
Verification Only of Fill	and Se	al				Watershed/V	Vastewater	Remed	liation/Redevelopment				
		-	Waste Ma	nageme		Other:							
1. Well Location Information						/ Owner In	formation						
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Latitude / Longitude (Degrees and I	Vinutes)	Method	Code (see instru	ictions)	-Facility ID (F	ID or PWS)							
°	۱۰ <u> </u>				License/Permit/Monitoring #								
<u>1/1/4 SE 1/4 SE</u> or Gov't Lot #	Section 4	Town 2	2 20	₫E	Original Well Charles		n Perry Living	Trust	4				
Well Street Address	9		3 N 20	W									
988-1020 Willard	De				Charles	\$ Marily	n Perry Livin	g Irus	Ŧ				
Well City Village for Town			Well ZIP Code			ess of Presen							
Ashwaybenon			54304	1			y Terrace						
Subdivision Name			Lot #		City of Prese			State	ZIP Code				
Ashview Terrace Ap	ts.				Elm Gi			WI	53122-1607				
Reason For Removal From Service	WUr	ique Well #	I # of Replaceme	nt Well	4. Pump, I	Liner, Scree	en, Casing & Seal	ing Mate	rial				
no longer needed		•	•		Pump and	piping remov	ved?						
3. Well / Drillhole / Borehole	Informat	ion			Liner(s) re								
	Monitoring Well Original Construction Date (mm/dd/yyyy) Water Well 02/12/2015 If a Well Construction Report is available.				Screen re								
Monitoring Well					Casing lef	t in place?							
						ng cut off belo	w surface?						
Borehole / Drillhole	please at				Did sealing material rise to surface?								
Construction Type:		-	_		Did mater	al settle after	24 hours?						
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Other (specify): <u>geopre</u>	obe				If bentonit with water	e chips were from a know	used, were they hydi n safe source?	rated					
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5,5		-			Sealing Mate			J					
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<u>a</u>							crete) Grout		-Sand Slurry " "				
Was well annular space grouted?]Yes [nknown		ete	Monitoring Well Bore	Bentonite	Chips				
If yes, to what depth (feet)?	Dept	h to Water	(feet)			ite Chips		nite - Cem					
		> 5	.5			ar Bentonite		nite - Cent					
5. Material Used To Fill Well / Dril	lhole				From (ft.)	To (ft.)	No. Yards Sacks or Volume (circ	Sealant	Mix Ratio or Mud Weight				
Bentonite		<u> </u>			Surface	5,5	¥3		mud Weight				
							·	-	<u>+</u>				
									<u> </u>				
6. Comments					L	L	L.,,		J				
7 Supervision of Work													

7. Supervision of Work	DNR Use Only				
Name of Person or Firm Doing Filling & Sealing OMNNI Associates	License #	Date of Filling & Sealing (mm/dd/yyyy) 02 / 12 / 2015	Date Received	Noted By	
Street or Route One Systems Dr.		Telephone Number (920) 735-6900	Comments		
City	State ZIP Code		lock	Date Signed	

State of Wis., Dept. of Natural Resources dnr.wi.gov

Well / Drillho	ole / Borehole	Filling & Sealir	۱g
Form 3300-005 (I	R 4/08)	Pa	ge

Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill	and Seal	Route to: Drinking Water Waste Managemen	nt 🗌	Watershed/W Other:	Vastewater D	Remedia	tion/Redevelopment
1. Well Location Information			2. Facility	/ Owner In	formation		
County WI Uniq Brown		Boring B3		Willard	Dr., Ashwau	benon	
Latitude / Longitude (Degrees and M	inutes) Method	Code (see instructions)	Facility ID (FI	D or PWS)			
	'N 'W			nit/Monitoring	#		
<u>%/%</u> SE % SE or Gov't Lot #	Section Town		Original Well Charles	Owner \$ Marily,	n Perry Living	Trust	
Well Street Address		3 N 20 W			n Perry Livin		
988-1020 Willard [Jr.			ess of Present		J	······
Well City Villageor Town		Well ZIP Code 54304	1360 0	ireenwa	y Terrace		
Ashwaybenon Subdivision Name	<u></u> .	Lot #	City of Prese				ZIP Code
Ashview Terrace Ap	ts.		Elm Gr	ove		WI	53122-1607
Reason For Removal From Service		# of Replacement Well	4. Pump, I	iner, Scree	en, Casing & Seali	ng Materia	al
no longer needed			Pump and	piping remov	red?		
3. Well / Drillhole / Borehole I	nformation		Liner(s) re	moved?		L Y	
Monitoring Well		Date (mm/dd/yyyy)	Screen re	moved?			
Water Well	02/12/2	2013	Casing lef	t in place?	<u> </u>		
	If a Well Construction please attach.	on Report is available,	Was casin	g cut off belov	w surface?		
Construction Type:			Did sealin	g material rise	e to surface?		
	andpoint)	Dug		al settle after was hole reto			
Other (specify): <u>geopro</u>			If bentonit	e chips were	used, were they hydr	ated	
Formation Type:			with water	from a know	n safe source?		es INO NA
	Bedro			ctor Pipe-Gra		Pine-Pumpe	d
Total Well Depth From Ground Surfa		iameter (in.)	Screer	ed & Poured			
5, 5			(Bento Sealing Mate	nite Chips)			
Lower Drillhole Diameter (in.)	Casing D	epth (ft.)	Neat C	ement Grout			Slurry (11 lb./gal. wt.) Sand Slurry " "
Was well annular space grouted?	Yes			ete	Monitoring Well Borel	Bentonite C	
If yes, to what depth (feet)?	Depth to Water	(feet) 5.5	Bentor	ite Chips ar Bentonite	Bentor	nite - Cemer nite - Sand S	
5. Material Used To Fill Well / Drill	lhole		From (ft.)	To (ft.)	No. Yards Sacks or Volume (circl	Sealant	Mix Ratio or Mud Weight
Bentonite			Surface	5,5	Y3		
	·····						
6. Comments							

7. Supervision of Work	- 12			D	NR Use Only
Name of Person or Firm Doing Filling & Sealing OMNNI Associates	License #	Date 02	of Filling & Sealing (mm/dd/yyyy)	Date Received	Noted By
Street or Route One Systems Dr.			Telephone Number (920) 735-6900	Comments	
City Manlotan	State ZIP C	Code	Signature of Person Doing W	lock	Date Signed

APPENDIX 4

HANDBOOK OF FIELD PROCEDURES

HANDBOOK OF FIELD PROCEDURES

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PERSONNEL QUALIFICATIONS

	Completed 40-hour hazardous waste training.	
	Bachelors Degree in Electrical Engineering from University of Wisconsin-Milwaukee.	
Brian D. Wayner:	Masters Degree in Environmental Engineering from University of New Haven.	
	PECFA Consultant Registration #47551.	
	Licensed Professional Engineer (no. 35304), State of Wisconsin	
	Completed 40-hour hazardous waste training.	
	Bachelors Degree in Geology from University of Notre Dame.	
Don Brittnacher:	Masters Degree in Environmental Health Engineering from University of Notre Dame.	
	Licensed Professional Geologist (no. 462), State of Wisconsin	
	Licensed Professional Engineer (no. 30286), State of Wisconsin	
	PECFA Consultant Registration/Certified Site Assessor-42127.	
	Completed 40-hour hazardous waste training.	
Jason C. Weis:	Bachelors Degree in Civil Engineering from University of Wisconsin-Platteville.	
	Masters Degree in Environmental Engineering from University of Wyoming.	
	Licensed Professional Engineer (no. 36681), State of Wisconsin	
	Completed 40-hour hazardous waste training.	
Deanna L. Drum:	Associate Degree in Mechanical Design, Fox Valley Technical College.	

SOIL BORING INSTALLATION PROCEDURES

A number of different drilling and Geoprobing®firms are used for environmental investigations. Borings intended to be converted to monitoring wells are advanced using 7 5/8" outside diameter (O.D.) x 4.5" inside diameter (I.D.) hollow stem augers or 6.25" O.D. solid stem augers powered by a truck-mounted drill rig. If bedrock drilling is required, borings are advanced using either air or mud-rotary drilling techniques. Soil borings not intended for monitoring wells are typically advanced using 4" O.D. solid stem augers. The Geoprobe®typically advances a 2" diameter hole. All soil borings that are not converted to permanent or temporary groundwater monitoring wells are properly abandoned per chapter NR 141, Wisconsin Administrative Code.

Samples are typically obtained from each boring at 2.5' intervals by split-spoon sampling according to American Society for Testing and Materials (ASTM) Standard D 1586. A portion of each sample is screened with a photoionization detector (PID). At each sampling interval, a representative portion of the soil is also collected for possible laboratory analysis. Soil samples are chosen from each boring for laboratory analysis based on headspace screening data, and visual and olfactory observations. In general, the sample from each boring that exhibits the highest PID reading is chosen for analysis. See the Soil Sampling Procedures below for further information pertaining to field headspace analysis and sample collection procedures.

SOIL SAMPLING PROCEDURES

All soil sampling is performed in accordance with the Wisconsin Department of Natural Resources (WDNR) publication PUBL-SW-127, <u>Soil Sampling Requirements for LUST Ste</u> <u>Investigations and Excavations</u> and chapter COMM 10, <u>Flammable and Combustible</u> <u>Liquids</u>, Wis. Adm. Code. The soil samples are collected and analyzed in accordance with methods described in Table C-3 in Appendix C of WDNR PUBL-RR-614, <u>Interim Guidance</u> <u>On Natural Attenuation For Petroleum Releases</u>, 1999. Our standard instruments and sample collection procedures are as follows:

- 1. Soil samples are collected from a split-spoon sampler or a polyethylene tube during environmental drilling.
- 2. Sample collector wears new latex exam gloves when collecting samples to decrease the risk of personal exposure and cross contamination.
- 3. A portion of the sample is collected in a sampling syringe and placed in an appropriate container (see Table 1), immediately placed on ice, and later delivered to a WDNR-certified laboratory for analysis. This procedure is discussed in more detail later in this report.

4. The remaining portion of the sample is placed in a clean 4 oz. jar (approx. halffilled), and sealed with aluminum foil and a teflon-lined lid. The headspace sample is then agitated for a minimum of 30 seconds and allowed to equilibrate. Minimum equilibration time will correspond to the following specifications:

Minimum Sample Headspace Equilibration Time

Ambient Outside Air Temperature at the Time of Sample Collection:	Minimum Amount of Time Sample Must equilibrate at 70° F or Greater Temperature:
< 40 ° F	40 minutes
41 – 55 ° F	20 minutes
56 – 69 °F	10 minutes
> 70 °F	5 minutes

Instrument Specifications

When the sample has completed equilibration, it is promptly field analyzed with a portable PID. OMNNI uses either a Photovac Inc. Microtip HL-200 or ML-1000 or a Thermo Environmental Instruments Model 580A organic vapor monitor (OVM), both equipped with an 11.2 ev lamp. A background reading is first taken. The PID probe is then inserted into the jar through a single hole in the aluminum foil. The instrument reading is measured at one-half the distance between the foil seal and the sample surface. The measured reading is then recorded.

Isobutylene at a concentration of 100 ppm is used for field calibration gas. The PID meter is field calibrated at the following times:

- At the beginning of each day
- After any significant change in temperature or humidity
- Every three hours
- After any repairs to the instrument are performed

All samples are returned to the laboratory as soon as possible, usually the day the sample was collected. All samples are returned to the laboratory under chain-of-custody protocol, using form #4400-151. Time of sample collection and sample PID reading are listed. Care is taken to ensure that the chain-of-custody form is properly and fully completed before submitting to the laboratory. The samples are sent to a laboratory certified by the WDNR.

Table 2 on page 9 outlines the required WDNR laboratory analysis for specific contaminants. Soil analyses, other than those in Table 2, will be conducted in accordance with methods approved by the WDNR.

MONITORING WELL INSTALLATION AND DEVELOPMENT PROCEDURES

The permanent monitoring wells are typically constructed of two-inch, schedule 40, flushthread polyvinyl chloride (PVC) casings and slotted well screens. Temporary wells are constructed of one-inch diameter, schedule 40 PVC casings and slotted screens. Prior to use, well parts are individually wrapped in plastic.

Permanent wells are installed and developed according to chapter NR 141, Wis. Adm. Code. The monitoring wells are installed with five to fifteen-foot screens which are placed in the borings to intersect the water table. Piezometers are installed with five-foot screens sealed beneath the water table. Filter pack and annular space seal material are installed by gravity as the augers are withdrawn from the hole. Wells are cut to the required height using a PVC pipe cutter.

An as-constructed well and boring survey is performed by OMNNI once field work is complete. Elevations are either based on a local datum of 100 feet, or a United States Geological Survey (USGS) elevation, assigned to a mark on a reference point located at the site. Ground elevation is surveyed to the nearest 0.1 foot, and the top of the well casing to the nearest 0.01 foot.

A horizontal grid system is established at the site with the origin of the grid set on the reference point. Wells and borings are located with respect to this grid system.

To properly develop each permanent monitoring well, water is removed until a consistent water quality is obtained. This is done by removing 10 times the water volume in the well and filter pack, removing water until it is free of sediment, or removing the water until the well is purged dry. Water is removed from the wells by bailing the water with as little agitation as possible. If the water level is unaffected by bailing and large amounts of water are to be removed, the well is developed by using the surge and purge method with a centrifugal pump. No water is added to the well during development. Temporary wells may be developed by allowing the peristaltic pump to run until the water is as clear as possible.

The development water is drummed, pending the results of analytical testing. If the well is suspected to be clean and small volumes of water are to be removed, the water may be spread on pavement to volatilize any possible contaminants. If the water is contaminated, it is properly disposed.

GROUNDWATER SAMPLING PROCEDURES AND VOLATILE ORGANIC COMPOUND (VOC) SAMPLING NOTES

- A. Devices used to measure water elevation, purge wells and retrieve samples:
 - 1. Groundwater levels are measured with a fiberglass reel tape with a weighted stainless steel "sounder" at the end.
 - 2. In wells that have free product on top of the water surface, depth to water and depth to product are measured with a fiberglass reel tape with an interface probe at the end.
 - 3. Wells are purged and samples are collected by one of the following methods:
 - a) Wells are purged with a disposable bailer.
 - b) Alternate purging and sampling equipment consisting of a peristaltic groundwater sampling pump.
- B. Procedures for calculating purge volumes, purging wells and sampling:
 - 1. Wells are normally sampled starting from the upgradient area and progressing toward the downgradient area of the site. When the degree of contamination is known, least contaminated wells are sampled first, the more contaminated wells sampled last.
 - 2. All the wells are opened before the depth to groundwater is determined to allow groundwater to equilibrate.
 - 3. Wells are purged with a bailer by removing four water volumes within a casing or all the water until the well runs dry. When using a peristaltic pump, water is removed for 10 to 20 minutes.
 - 4. Once all the wells have been purged, the samples are drawn using equipment mentioned above. (See Table 3 Water Sample Preparation Guide)
 - 5. Sample odor, turbidity, temperature, conductivity, dissolved oxygen (DO) and pH are determined on the unfiltered portions of the sample and recorded on the well specific field sheet.
 - 6. When the sample requires filtering, the sample is filtered with a hand pump or an in-line pump (as soon after collection as possible).
 - 7. Quality Assurance/Quality Control Samples

- a) Trip and field blanks each consist of three new 40 milliliter (ml) vials filled with deionized water. These are sent to the laboratory for petroleum volatile organic compound (PVOC) or VOC analysis.
- b) One field blank should be analyzed for every 10 samples collected. At least one trip blank is taken per site visit. Trip blanks are poured, labeled, and sealed, then taken out in the field. Field blanks are poured, labeled, and sealed at the site. Trip blanks are kept with all samples collected until reaching the field. If there is a possibility for field cross-contamination of samples, field blanks may be taken at the sample collector's discretion.
- c) One temperature blank may be collected per batch of samples.
- d) One duplicate sample may be collected with every 10 samples.
- 8. Samples are refrigerated, then transported to a WDNR-certified laboratory for testing as soon as possible.
- 9. A chain-of-custody form is filled out, listing all samples collected, requested laboratory analysis, date and time of collection, and the name of the sample collector. This document remains with the samples at all times and bears the names of all persons handling the samples until they are received at the laboratory.
- C. Procedures for cleaning equipment:
 - 1. In the field, sampling equipment is rinsed with a 10% methanol solution and then flushed three times with deionized water between each well sampled.
 - 2. Equipment that is still contaminated after field cleaning will be rinsed with tap water, washed off with detergent, rinsed with a 10% methanol solution, and flushed three times with deionized water.
- D. Transporting samples to laboratory:
 - 1. Filtered, preserved, labeled, and sealed samples are placed on ice and transported to the laboratory for analysis as soon as possible.
 - 2. The laboratory will be notified by the sample collector when courier service is required.
- E. The above procedures constitute normal groundwater sampling procedures for permanent groundwater monitoring wells. Modifications to each of the outlined items may be applicable for site specific conditions or special volatile organic sampling considerations. Methods used are consistent with WDNR's <u>Groundwater</u>

Sampling Field Manual, Publ. DG-038 96, September 1996 and WDNR's Groundwater Sampling Desk Reference, Publ. DG-037 96, September 1996.

DECONTAMINATION PROCEDURES

Decontamination is the process of removing and/or neutralizing contaminants that may have accumulated on personnel protective equipment (PPE) and equipment. Proper decontamination is a critical element in the control of hazards which helps ensure the health and safety of workers. Proper decontamination also contains the contamination to the site, thus preventing further environmental problems.

Drilling

The following decontamination procedures should be used when completing borings, installing monitoring wells, and/or installing remediation systems.

- A. Between samples, the split spoon will be cleaned in a multiple rinse, surfactant solution (soap and water or Alconox solution.)
- B. The sample will be collected while wearing new latex exam gloves.
- C. The surface upon which the sample is collected is cleaned between samples.
- D. The latex exam gloves are changed between samples.
- E Soil which has accumulated around the boring will either be stockpiled or drummed. If the soil is stockpiled, it will be placed on and covered with plastic. The stockpiled or drummed soil will later be disposed in compliance with the WDNR regulations.
- F. Upon completion of the boring, the augers will be decontaminated by drilling contractors before they are used again. The following procedures will be followed when decontaminating drilling equipment:
 - 1. A decontamination basin lined with plastic is set up near the work area.
 - 2. All contaminated equipment is placed in the decontamination basin.
 - 3. A pressurized steam cleaner is used to clean all contaminated equipment.
 - 4. Following steam cleaning, the auger is removed from the decontamination basin.
 - 5. Upon completion of the job, the accumulated water in the decontamination basin is pumped out and placed in a drum. Wash water used for cleaning the split spoons is also added to the drum. The drum will be disposed in

compliance with all regulatory agencies. The plastic used in the decontamination basin is disposed in compliance with all regulatory agencies.

TABLE 1 – SOIL SAMPLE PREPARATION GUIDE*

TEST	CONTAINER SIZE* *	SAMPLE SIZE	PRESERVATIVE	HOLDING TIME
GRO Gasoline Range Organics	2 oz. wide mouth glass jar or 40 ml vial (2 per sample)	25 g – jar 13 g – vial	25 ml Methanol (purge & trap grade) – jar none required – vial	4 days
DRO Diesel Range Organics	2 oz. wide mouth glass jar or 40 ml vial (2 per sample)	25 g – jar 13 g – vial	None	4 days
Total Lead/ or all RCRA Metals	4 oz. wide mouth plastic jar (2 per sample)	4 oz.	None	6 months
VOC / PVOC Volatile Organic Compounds	2 oz. wide mouth glassjar or 40 ml vial (2 per sample)	25 g – jar 13 g – vial	25 ml Methanol (purge & trap grade) – jar none required – vial	4 days preserved , 48 hours non- preserved
PCB Polychlorinated Biphenyls	4 oz. wide mouth glassjar (2 per sample)	4 oz.	None	14 days
PAH Polynuclear Aromatic Hydrocarbons	4 oz. wide mouth glassjar (2 per sample)	4 oz.	None	14 days

* All samples will be sealed, labeled, and placed on ice immediately after collection.

** To ensure a proper seal between the sample container and the cap, no soil shall remain on the jar or cap threads. When samples are collected with the syringe, a 40 ml vial is used and the sample is preserved by the laboratory.

TABLE 2 – SOIL SAMPLE ANALYSIS GUIDE FOR PETROLEUMCONTAMINATION

PETRO LEUM SUBSTANCE	CLOSURE ASSESSMENT	SOLID WASTE PRO./LANDFILLS	SITE INVESTIGATIONS
Gasoline Aviation Fuel	GRO	Free Liquids GRO Benzene Haz. Waste Det.	GRO PVOC/VOC Pb
Diesel Jet Fuel No.'s 1, 2, 4 Fuel Oil	DRO	Free Liquids GRO Benzene Haz. Waste Det.	DRO PVOC PAH
Crude Oil Lubricat. Oil No. 6 Fuel Oil	DRO	Free Liquids DRO Haz. Waste Det.	DRO PAH
Unknown Petroleum	GRO and DRO	Free Liquids GRO and DRO Pb, Cd, CN, S Haz Waste Det.	GRO and DRO VOC/PVOC PAH Pb, Cd
Waste Oil	DRO	Free Liquids DRO VOC Pb, Cd, CN, S Haz. Waste Det.	DRO VOC/PVOC PAH PCB Pb, Cd

TABLE 3 – GROUNDWATER SAMPLE PREPARATION GUIDE*

TEST	SAMPLE SIZE / CONTAINER	PRESERVATIVE	HOLDING TIME
VOC / PVOC Volatile Organic Compounds	3 - 40 ml vials filled with no headspace	0.5 ml of 1:1 HC1	14 days
DRO Diesel Range Organics	1 - 1 liter amber glass bottles	5 ml of 1:1 HC1	7 days
GRO Gasoline Range Organics	3 - 40 ml vials filled with no headspace	0.5 ml of 1:1 HC1	14 days
PAH Polynuclear Aromatic Hydrocarbons	1 - 1 liter amber glass bottles	None	7 days
PCB Polychlorinated Biphenyls	1 - 1 liter amber glass bottle	None	7 days
LEAD / RCRA metals * *	1 - 250 ml plastic bottle	2 ml of HNO ₃ or to a pH of < 2	6 months

* All samples will be sealed, labeled, and placed on ice immediately after collection.

** When testing for dissolved metals, the sample will be field filtered before preservation.

APPENDIX 5

LABORATORY ANALYSIS RESULTS AND CHAIN OF CUSTODY DOCUMENTATION



Pace Analytical Services, Inc. 1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

February 18, 2015

Don Brittnacher OMNINI Associates One Systems Drive Appleton, WI 54914

RE: Project: N2166A15 DNR-ASHWAUBENON Pace Project No.: 40110548

Dear Don Brittnacher:

Enclosed are the analytical results for sample(s) received by the laboratory on February 12, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

D-VM-

Steven Mleczko steve.mleczko@pacelabs.com Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS



CERTIFICATIONS

Project: N2166A15 DNR-ASHWAUBENON

Pace Project No.: 40110548

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302 Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334

New York Certification #: 11888 North Dakota Certification #: R-150 South Carolina Certification #: 83006001 Texas Certification #: T104704529-14-1 US Dept of Agriculture #: S-76505 Wisconsin Certification #: 405132750

REPORT OF LABORATORY ANALYSIS



SAMPLE SUMMARY

Project: N2166A15 DNR-ASHWAUBENON

Pace Project No.: 40110548

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40110548001	B1-1	Solid	02/12/15 14:10	02/12/15 15:40
40110548002	B1-2	Solid	02/12/15 14:14	02/12/15 15:40
40110548003	B2-1	Solid	02/12/15 14:30	02/12/15 15:40
40110548004	B2-2	Solid	02/12/15 14:32	02/12/15 15:40
40110548005	B3-1	Solid	02/12/15 14:52	02/12/15 15:40
40110548006	B3-2	Solid	02/12/15 14:54	02/12/15 15:40



Pace Analytical Services, Inc. 1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

SAMPLE ANALYTE COUNT

Project:N2166A15 DNR-ASHWAUBENONPace Project No.:40110548

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40110548001	B1-1	EPA 8082	BLM	10	PASI-G
		ASTM D2974-87	SDW	1	PASI-G
40110548002	B1-2	EPA 8082	BLM	10	PASI-G
		ASTM D2974-87	SDW	1	PASI-G
40110548003	B2-1	EPA 8082	BLM	10	PASI-G
		ASTM D2974-87	SDW	1	PASI-G
40110548004	B2-2	EPA 8082	BLM	10	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40110548005	B3-1	EPA 8082	BLM	10	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40110548006	B3-2	EPA 8082	BLM	10	PASI-G
		ASTM D2974-87	SKW	1	PASI-G



ANALYTICAL RESULTS

Project: N2166A15 DNR-ASHWAUBENON

Pace Project No.: 40110548

Sample: B1-1	Lab ID: 40110	548001 Collecte	d: 02/12/15	5 14:10	Received: 02	/12/15 15:40 Ma	atrix: Solid	
Results reported on a "dry-wei	ight" basis							
Parameters	Results Unit	s LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method	I: EPA 8082 Prepa	ration Methe	od: EP/	A 3541			
PCB-1016 (Aroclor 1016)	<32.7 ug/kg	65.3	32.7	1	02/13/15 10:34	02/14/15 05:15	12674-11-2	
PCB-1221 (Aroclor 1221)	<32.7 ug/kg	65.3	32.7	1	02/13/15 10:34	02/14/15 05:15	11104-28-2	
PCB-1232 (Aroclor 1232)	<32.7 ug/kg	65.3	32.7	1	02/13/15 10:34	02/14/15 05:15	11141-16-5	
PCB-1242 (Aroclor 1242)	<32.7 ug/kg	65.3	32.7	1	02/13/15 10:34	02/14/15 05:15	53469-21-9	
PCB-1248 (Aroclor 1248)	<32.7 ug/kg	65.3	32.7	1	02/13/15 10:34	02/14/15 05:15	12672-29-6	
PCB-1254 (Aroclor 1254)	199 ug/kg	65.3	32.7	1	02/13/15 10:34	02/14/15 05:15	11097-69-1	
PCB-1260 (Aroclor 1260)	126 ug/kg	65.3	32.7	1	02/13/15 10:34	02/14/15 05:15	11096-82-5	
PCB, Total	325 ug/kg	65.3	32.7	1	02/13/15 10:34	02/14/15 05:15	1336-36-3	
Surrogates								
Tetrachloro-m-xylene (S)	83 %	50-130		1	02/13/15 10:34	02/14/15 05:15	877-09-8	
Decachlorobiphenyl (S)	88 %	18-134		1	02/13/15 10:34	02/14/15 05:15	2051-24-3	
Percent Moisture	Analytical Method	I: ASTM D2974-87						
Percent Moisture	23.5 %	0.10	0.10	1		02/12/15 16:44		

 Sample:
 B1-2
 Lab ID:
 40110548002
 Collected:
 02/12/15
 14:14
 Received:
 02/12/15
 15:40
 Matrix:
 Solid

 Results reported on a "dry-weight" basis
 Collected:
 02/12/15
 14:14
 Received:
 02/12/15
 15:40
 Matrix:
 Solid

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical	Method: EPA	8082 Prepa	ration Metho	od: EP/	A 3541			
PCB-1016 (Aroclor 1016)	<27.7 u	ıg/kg	55.5	27.7	1	02/13/15 10:34	02/14/15 05:32	12674-11-2	
PCB-1221 (Aroclor 1221)	<27.7 ເ	ıg/kg	55.5	27.7	1	02/13/15 10:34	02/14/15 05:32	11104-28-2	
PCB-1232 (Aroclor 1232)	<27.7 ເ	ıg/kg	55.5	27.7	1	02/13/15 10:34	02/14/15 05:32	11141-16-5	
PCB-1242 (Aroclor 1242)	<27.7 ເ	ıg/kg	55.5	27.7	1	02/13/15 10:34	02/14/15 05:32	53469-21-9	
PCB-1248 (Aroclor 1248)	<27.7 ເ	ıg/kg	55.5	27.7	1	02/13/15 10:34	02/14/15 05:32	12672-29-6	
PCB-1254 (Aroclor 1254)	<27.7 ເ	ıg/kg	55.5	27.7	1	02/13/15 10:34	02/14/15 05:32	11097-69-1	
PCB-1260 (Aroclor 1260)	<27.7 ເ	ıg/kg	55.5	27.7	1	02/13/15 10:34	02/14/15 05:32	11096-82-5	
PCB, Total	<27.7 ເ	ıg/kg	55.5	27.7	1	02/13/15 10:34	02/14/15 05:32	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	81 %	6	50-130		1	02/13/15 10:34	02/14/15 05:32	877-09-8	
Decachlorobiphenyl (S)	89 %	6	18-134		1	02/13/15 10:34	02/14/15 05:32	2051-24-3	
Percent Moisture	Analytical	Method: AST	M D2974-87						
Percent Moisture	9.9 %	6	0.10	0.10	1		02/12/15 16:45		



ANALYTICAL RESULTS

Project: N2166A15 DNR-ASHWAUBENON

Pace Project No.: 40110548

Sample: B2-1 Lab ID: 40110548003 Collected: 02/12/15 14:30 Received: 02/12/15 15:40 Matrix: Solid Results reported on a "dry-weight" basis Parameters Results Units LOQ LOD DF Prepared Analyzed CAS No. Qual 8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3541 PCB-1016 (Aroclor 1016) <30.4 ug/kg 60.8 30.4 02/13/15 10:34 02/14/15 05:49 12674-11-2 1 30.4 PCB-1221 (Aroclor 1221) <30.4 ug/kg 60.8 1 02/13/15 10:34 02/14/15 05:49 11104-28-2 <30.4 ug/kg 60.8 30.4 PCB-1232 (Aroclor 1232) 1 02/13/15 10:34 02/14/15 05:49 11141-16-5 PCB-1242 (Aroclor 1242) <30.4 ug/kg 60.8 30.4 1 02/13/15 10:34 02/14/15 05:49 53469-21-9 PCB-1248 (Aroclor 1248) <30.4 ug/kg 60.8 30.4 1 02/13/15 10:34 02/14/15 05:49 12672-29-6 PCB-1254 (Aroclor 1254) <30.4 ug/kg 60.8 30.4 02/13/15 10:34 02/14/15 05:49 11097-69-1 1 <30.4 ug/kg PCB-1260 (Aroclor 1260) 60.8 30.4 02/13/15 10:34 02/14/15 05:49 11096-82-5 1 <30.4 ug/kg 60.8 30.4 02/13/15 10:34 02/14/15 05:49 1336-36-3 PCB, Total 1 Surrogates Tetrachloro-m-xylene (S) 80 % 50-130 02/13/15 10:34 02/14/15 05:49 877-09-8 1 Decachlorobiphenyl (S) 88 % 18-134 1 02/13/15 10:34 02/14/15 05:49 2051-24-3 Analytical Method: ASTM D2974-87 **Percent Moisture** 17.8 % 02/12/15 16:45 Percent Moisture 0.10 0.10 1

Sample: B2-2 Lab ID: 40110548004 Collected: 02/12/15 14:32 Received: 02/12/15 15:40 Matrix: Solid Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical	Method: EP/	8082 Prepa	ration Metho	od: EP/	A 3541			
PCB-1016 (Aroclor 1016)	<30.1 U	ıg/kg	60.2	30.1	1	02/13/15 10:34	02/14/15 06:07	12674-11-2	
PCB-1221 (Aroclor 1221)	<30.1 u	ıg/kg	60.2	30.1	1	02/13/15 10:34	02/14/15 06:07	11104-28-2	
PCB-1232 (Aroclor 1232)	<30.1 u	ıg/kg	60.2	30.1	1	02/13/15 10:34	02/14/15 06:07	11141-16-5	
PCB-1242 (Aroclor 1242)	<30.1 u	ıg/kg	60.2	30.1	1	02/13/15 10:34	02/14/15 06:07	53469-21-9	
PCB-1248 (Aroclor 1248)	<30.1 u	ig/kg	60.2	30.1	1	02/13/15 10:34	02/14/15 06:07	12672-29-6	
PCB-1254 (Aroclor 1254)	<30.1 u	ıg/kg	60.2	30.1	1	02/13/15 10:34	02/14/15 06:07	11097-69-1	
PCB-1260 (Aroclor 1260)	<30.1 u	ıg/kg	60.2	30.1	1	02/13/15 10:34	02/14/15 06:07	11096-82-5	
PCB, Total	<30.1 u	ıg/kg	60.2	30.1	1	02/13/15 10:34	02/14/15 06:07	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	81 %	6	50-130		1	02/13/15 10:34	02/14/15 06:07	877-09-8	
Decachlorobiphenyl (S)	88 %	6	18-134		1	02/13/15 10:34	02/14/15 06:07	2051-24-3	
Percent Moisture	Analytical	Method: AS	FM D2974-87						
Percent Moisture	16.9 %	6	0.10	0.10	1		02/17/15 16:14		



ANALYTICAL RESULTS

Project: N2166A15 DNR-ASHWAUBENON

Pace Project No.: 40110548

Sample: B3-1 Lab ID: 40110548005 Collected: 02/12/15 14:52 Received: 02/12/15 15:40 Matrix: Solid Results reported on a "dry-weight" basis Parameters Results Units LOQ LOD DF Prepared Analyzed CAS No. Qual 8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3541 PCB-1016 (Aroclor 1016) <28.9 ug/kg 57.8 28.9 02/13/15 10:34 02/14/15 06:24 12674-11-2 1 28.9 PCB-1221 (Aroclor 1221) <28.9 ug/kg 57.8 1 02/13/15 10:34 02/14/15 06:24 11104-28-2 <28.9 ug/kg 57.8 28.9 PCB-1232 (Aroclor 1232) 1 02/13/15 10:34 02/14/15 06:24 11141-16-5 PCB-1242 (Aroclor 1242) <28.9 ug/kg 57.8 28.9 1 02/13/15 10:34 02/14/15 06:24 53469-21-9 PCB-1248 (Aroclor 1248) 227 ug/kg 57.8 28.9 1 02/13/15 10:34 02/14/15 06:24 12672-29-6 PCB-1254 (Aroclor 1254) 224 ug/kg 57.8 28.9 02/13/15 10:34 02/14/15 06:24 11097-69-1 1 136 ug/kg PCB-1260 (Aroclor 1260) 57.8 28.9 02/13/15 10:34 02/14/15 06:24 11096-82-5 1 28.9 02/13/15 10:34 02/14/15 06:24 1336-36-3 PCB, Total 587 ug/kg 57.8 1 Surrogates Tetrachloro-m-xylene (S) 83 % 50-130 02/13/15 10:34 02/14/15 06:24 877-09-8 1 Decachlorobiphenyl (S) 87 % 18-134 1 02/13/15 10:34 02/14/15 06:24 2051-24-3 Analytical Method: ASTM D2974-87 **Percent Moisture** 13.4 % 02/17/15 16:14 Percent Moisture 0.10 0.10 1

Sample: B3-2 Lab ID: 40110548006 Collected: 02/12/15 14:54 Received: 02/12/15 15:40 Matrix: Solid Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical	Method: EPA	8082 Prepa	ration Metho	od: EP	A 3541			
PCB-1016 (Aroclor 1016)	<126 u	g/kg	251	126	4	02/13/15 10:34	02/14/15 06:42	12674-11-2	
PCB-1221 (Aroclor 1221)	<126 u	g/kg	251	126	4	02/13/15 10:34	02/14/15 06:42	11104-28-2	
PCB-1232 (Aroclor 1232)	<126 u	g/kg	251	126	4	02/13/15 10:34	02/14/15 06:42	11141-16-5	
PCB-1242 (Aroclor 1242)	<126 u	g/kg	251	126	4	02/13/15 10:34	02/14/15 06:42	53469-21-9	
PCB-1248 (Aroclor 1248)	2550 u	g/kg	251	126	4	02/13/15 10:34	02/14/15 06:42	12672-29-6	
PCB-1254 (Aroclor 1254)	1270 u	g/kg	251	126	4	02/13/15 10:34	02/14/15 06:42	11097-69-1	
PCB-1260 (Aroclor 1260)	1170 u	g/kg	251	126	4	02/13/15 10:34	02/14/15 06:42	11096-82-5	
PCB, Total	4990 u	g/kg	251	126	4	02/13/15 10:34	02/14/15 06:42	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	76 %	, D	50-130		4	02/13/15 10:34	02/14/15 06:42	877-09-8	
Decachlorobiphenyl (S)	83 %	, D	18-134		4	02/13/15 10:34	02/14/15 06:42	2051-24-3	
Percent Moisture	Analytical	Method: AST	FM D2974-87						
Percent Moisture	20.4 %	, 0	0.10	0.10	1		02/17/15 16:14		



QUALITY CONTROL DATA

Project: N2166A15 DNR-ASHWAUBENON

Pace Project No.: 40110548

QC Batch:	OEX	T/25846
QC Batch Method:	EPA	3541
Associated Lab Samp	oles:	40110548001, 40

Analysis Method:EPA 8082Analysis Description:8082 GCS

 541
 Analysis Description:
 8082 GCS PCB

 40110548001, 40110548002, 40110548003, 40110548004, 40110548005, 40110548006

 METHOD BLANK:
 1117585
 Matrix:
 Solid

 Associated Lab Samples:
 40110548001, 40110548002, 40110548003, 40110548004, 40110548005, 40110548006

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<25.0	50.0	02/14/15 00:19	
PCB-1221 (Aroclor 1221)	ug/kg	<25.0	50.0	02/14/15 00:19	
PCB-1232 (Aroclor 1232)	ug/kg	<25.0	50.0	02/14/15 00:19	
PCB-1242 (Aroclor 1242)	ug/kg	<25.0	50.0	02/14/15 00:19	
PCB-1248 (Aroclor 1248)	ug/kg	<25.0	50.0	02/14/15 00:19	
PCB-1254 (Aroclor 1254)	ug/kg	<25.0	50.0	02/14/15 00:19	
PCB-1260 (Aroclor 1260)	ug/kg	<25.0	50.0	02/14/15 00:19	
Decachlorobiphenyl (S)	%	93	18-134	02/14/15 00:19	
Tetrachloro-m-xylene (S)	%	80	50-130	02/14/15 00:19	

I ABORATORY	CONTROL SAMPLE:	1117586
LABORATORY	CONTROL SAMPLE:	1117586

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<25.0		· ·	
PCB-1221 (Aroclor 1221)	ug/kg		<25.0			
PCB-1232 (Aroclor 1232)	ug/kg		<25.0			
PCB-1242 (Aroclor 1242)	ug/kg		<25.0			
PCB-1248 (Aroclor 1248)	ug/kg		<25.0			
PCB-1254 (Aroclor 1254)	ug/kg		<25.0			
PCB-1260 (Aroclor 1260)	ug/kg	500	356	71	64-130	
Decachlorobiphenyl (S)	%			90	18-134	
Tetrachloro-m-xylene (S)	%			76	50-130	

MATRIX SPIKE & MATRIX S	PIKE DUPLIC	ATE: 111758	37		1117588							
Parameter	2 Units	40110459025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	<27.9	·		<27.9	<27.9				·	50	
PCB-1221 (Aroclor 1221)	ug/kg	<27.9			<27.9	<27.9					50	
PCB-1232 (Aroclor 1232)	ug/kg	<27.9			<27.9	<27.9					50	
PCB-1242 (Aroclor 1242)	ug/kg	<27.9			<27.9	<27.9					50	
PCB-1248 (Aroclor 1248)	ug/kg	<27.9			<27.9	<27.9					50	
PCB-1254 (Aroclor 1254)	ug/kg	<27.9			<27.9	<27.9					50	
PCB-1260 (Aroclor 1260)	ug/kg	<27.9	559	559	416	426	74	76	28-130	2	50	
Decachlorobiphenyl (S)	%						92	94	18-134			
Tetrachloro-m-xylene (S)	%						85	87	50-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: N2166A15 DNR-ASHWAUBENON

Pace Project No.: 40110548

QC Batch:	PMST/10893	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Sam	ples: 40110548001, 40110548002	2, 40110548003	
SAMPLE DUPLICAT	E. 1117405		

Parameter	Units	40110497002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	5.5	5.8	7	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALITY CONTROL DATA

Project: N2166A15 DNR-ASHWAUBENON

Pace Project No.: 40110548

QC Batch:	PMST/10901	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Sam	ples: 40110548004, 40110548005, 4	0110548006	
SAMPLE DUPLICAT	E: 1118912		

Parameter	Units	40110659002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	6.8	6.7	2	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project: N2166A15 DNR-ASHWAUBENON

Pace Project No.: 40110548

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: N2166A15 DNR-ASHWAUBENON

Pace Project No.: 40110548

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40110548001	B1-1	EPA 3541	OEXT/25846	EPA 8082	GCSV/12577
40110548002	B1-2	EPA 3541	OEXT/25846	EPA 8082	GCSV/12577
40110548003	B2-1	EPA 3541	OEXT/25846	EPA 8082	GCSV/12577
40110548004	B2-2	EPA 3541	OEXT/25846	EPA 8082	GCSV/12577
40110548005	B3-1	EPA 3541	OEXT/25846	EPA 8082	GCSV/12577
40110548006	B3-2	EPA 3541	OEXT/25846	EPA 8082	GCSV/12577
40110548001	B1-1	ASTM D2974-87	PMST/10893		
40110548002	B1-2	ASTM D2974-87	PMST/10893		
40110548003	B2-1	ASTM D2974-87	PMST/10893		
40110548004	B2-2	ASTM D2974-87	PMST/10901		
40110548005	B3-1	ASTM D2974-87	PMST/10901		
40110548006	B3-2	ASTM D2974-87	PMST/10901		

C019a(27Jun2006)	special pricing and release of liability Relinquished By:		Telephone: Relinquished By:	Email #2:	Iransmit Prelim Rush Results by (complete what you want): Email #1:	(Austri Ari Subject to approval/surcharge) Alth OMThacker	S Religuished By:					N 2:54	1005 B3-1 2:52 S	2:32	1		001 151-1 3/12/10 2:10 S	* CLIENT FIELD ID	your sample SI = Sludge	EPA Level III (billable) E = Bota Dinking Water (billable) C = Charcoal GW = Ground Water EPA Level IV (NOT needed on 0 = 01) SW = Surface Water	On your sample	PO #: Program:	Hed By (Sign): Won Bruthnacker	Dan Brittmacher	Project State: اللي المحالي محالي المحالي المح المحالي المحالي محالي محالي محالي المحالي محالي محال	Project Name: DNR - Ashway benon H=Sodium Bisulfate Solution	A=None B:		acher	Branch/Location: Appleton	
	Date/Time: Received By:	Kecelved By:	Date Time.	Date/Time: Received By:		Date/Time:	Date/Time:												PC	/ses 2 B ₃ 7 m		9519(D			Preservation Codes	CHAIN OF CUSTODY	www.pacelabs.com	Face Analytical	10/1-100-210 :MM
	Date/Time:	Date/Time:		Date/Time:	Date/Time:	2/12/15	ndorra								æ.			COMMENTS		Invoice To Bhops		Invoice To Address:	Invoice To Company.	Invoice To Contact:	Mail To Address:	Mail To Company:					MM: 612-607-1700 WI: 920-469-2436
Version 6.0 06/14/06	Present / Not Present	OK / Adjusted	Sample Receipt pH	Receipt Temp = KO	001102	TS40 UNINCL										1.202 cg 1-403		LAB COMMENTS	0070-621	107			-Same-	HPPIeton, WI JTTH	One Systems Dr.	OMNWI Associates	Von Brittnacher	7 7 7			

\$	Sample Condition Users	
Paco Angli dia 1	Sample Condition Upon Receipt	Pace Analytical Service
Pace Analytical"		1241 Bellevue Street, S Green Bay, Wi
Client Name:	Project #:	the second s
Courier: Fed Ex FUPS Client	ASSOC. WO#:4	0110548
Custody Seal on P		
Custody Seal on Samples Present:	yes K no Seals intact: Tyes no	
Thermometer Used	Dubble Bags WNone C Other	
Cooler Temperature Uncorr: 1201	- Type of ice: Wet (Blue) Dry None - To say in	
Temp Blank Present:	Biological Tissue is Frozen: Tyes	e, cooling process has begun
Temp should be above frage		Person eventient
Do received 2 0-0		Person examining contents:
Chain of Custody Present:	Comments:	nitials: <u>25</u>
Chain of Custody Filled Out:		
Chain of Custody Relinquished:		
Sampler Name & Signature on COC:	Pres DNo DN/A 3.	
Samples Arrived within Hold Time:	AYes DNO DN/A 4.	
- VOA Samples frozen upon receipt	ØYes □No □N/A 5.	
Short Hold Time Analysis (<72hr):	□Yes □No Date/Time:	
Rush Tum Around Tu		
Rush Turn Around Time Requested:	DYes DNO DN/A 7.	
Sufficient Volume:	Dives DNo DN/A 8.	
Correct Containers Used:	Dyes DNO DNA 9.	
-Pace Containers Used:		
-Pace IR Containers Used:		
ontainers Intact:		
iltered volume received for Dissolved tests	Tyes INO IN/A 10.	
ample Labels match COC:	DYes DNo DNA 11.	
-Includes date/fime/ID/Apple	Øyes DNO DN/A 12.	
containers needing presentiated	kod	
	UYes DNO ZINA 13 THNO3 TH2SO4 TNA	
containers needing preservation are found to be impliance with EPA recommendation.		DH F NaOH +ZnAct
eplions: VOA = 2016 -		
G, WIDROW, Phendics, OTHER:	UYes DNo Initial when Lab Std #ID of	
adspace in VOA Vials (>6mm):	completed preservative	Date/ Time:
Blank Present:	UYes 'DNO DN/A 14.	
Blank Custody Seals Present	DYes DNO ZN/A 15.	
e Trip Blank Lot # (if purchased)		
in Notification/ Resolution		· .
Person Contacted:	Date/Time:	or additional comments
omments/ Resolution:		
		/ /
roject Manager Review:	7	
-C-031-Rev 02 (280-0000)	Date:	13115
e-C-031-Rev.02 (28Oct2013) SCUR Form		
		1