

January 7, 2016

Mr. Chris Saari Wisconsin Department of Natural Resources 2501 Golf Course Road Ashland, WI 54806

Re: NR 718.12 Soil Management Plan for 6th Street West Reconstruction, City of Ashland Contamination in the Right of Way of 6th Street West Associated with Former Quearm Oil Site (BBRTS Nos.: 02-02-000105 and 03-02-000975)

Dear Mr. Saari:

This letter serves as the NR 718.12 Soil Management Plan for the City of Ashland (City) 6th Street West Reconstruction project. The City will be reconstructing 6th Street West from Ellis Avenue to Sanborn Avenue and replacing underground utility lines. The project location is shown on the enclosed preliminary plan sheets. The project will be bid in February 2016 and construction is anticipated in 2016.

On behalf of the City, we are submitting this Soil Management Plan for your information. The information regarding contaminated materials and the procedures for management of contaminated materials provided in this Soil Management Plan will be included in the project drawings and specifications. The drawings and specifications will assist the contractor during construction and provide guidance for the appropriate management of petroleum-contaminated soil that we anticipate will be encountered within the right of way (R/W) of 6th Street West. Petroleum-contaminated soil was recently encountered adjacent to the former Quearm Oil site at one geotechnical boring (SB-22) and at four subsequent borings completed to define the limits of contamination (SB-1 through SB-4). The enclosed November 4, 2015, letter report summarizes the extent and magnitude of contamination detected in the 6th Street West R/W.

Site Location and Contact Information

Reconstruction of 6th Street West will be limited to the existing R/W and the City is the owner of the R/W. The City contact is Mr. Ray Hyde, Director of Public Works, (715) 682-7580, <u>RHyde@coawi.org</u>, 2020 Sixth Street East, Ashland, Wisconsin, 54806.

The location of petroleum contamination detected within the R/W of 6th Street West was adjacent to the former Quearm Oil site at 105 6th Street West, Ashland, Wisconsin.

Proposed Construction and Location of Contaminated Soil

Excavations for roadway reconstruction and utility line replacement within the 6th Street West R/W may encounter petroleum-contaminated soil from between approximate design Station 85+15 and Station 86+70, a distance of 155 feet. Soil borings completed within the 6th Street West R/W did not detect groundwater, and the tight clay soils encountered are not expected to yield any substantial

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quantities of groundwater. Site investigations in the area reported the depth to groundwater as 30 to 50 feet. Refer to the enclosed preliminary design plan sheets (Sheet 37) for the design stationing, the estimated extent of soil contamination within the R/W, and the locations of the soil borings (B-22 and SB-1 through SB-4).

Excavation to approximately 3 feet will be required for roadway reconstruction. In the area of contamination, excavation to approximately 6 feet is required for storm sewer inlets and laterals, excavation to approximately 11 feet is required for a sanitary sewer, and excavation to approximately 13 feet is required for water main and laterals. The proposed trench excavations through this area will be approximately 4 feet wide at the bottom and increasing in width toward the surface. Regarding the volume of soil to be excavated, one of the following conditions applies:

- 1. If contamination is limited to the shallow fill material above the native clay soils, the estimated volume of contaminated soil/fill that will be excavated is approximately 770 cubic yards.
- 2. If contamination is found at greater depths in the native clay soils and impacting utility line trenches, the contaminated soil volume will increase. The worst-case scenario would be that all excavated soil within the defined zone is contaminated. That volume would be approximately 1,225 cubic yards.

Location Standards for Reuse of Excavated Soil

Excavated soil and base course materials from within the defined area of contamination shown on the enclosed preliminary design plan sheets will be reused under pavement and within the utility trenches to the maximum extent possible. All material will be replaced in excavations and trenches at the approximate location and depth from where it was excavated. Reuse of contaminated soil on the project will be limited to the defined area of contamination and will meet the locational standards specified in NR 718.12(1)(c).

Proposed Management of Contaminated Soil

Based on existing subsurface investigation data collected at these sites, it is anticipated that petroleum-contaminated soil may be encountered approximately between Station 85+15 and Station 86+70. The probable area of contaminated soil is shown on the drawings. The contractor shall control operations to minimize the quantity of contaminated soil excavated and to ensure that excavations do not extend beyond the minimum required to construct the project.

Excess contaminated soil, if any, shall be removed from the trenches and excavations and loaded directly into licensed waste-hauling trucks. The waste shall be transported off-site to a licensed landfill or treatment facility for disposal. Temporary stockpiling of the contaminated soil prior to reuse on the project or prior to off-site disposal will be allowed. The temporary stockpile location shall be approved by the City. Material shall be placed on an impermeable surface such as concrete, asphalt, or 20 millimeter thick (minimum thickness) plastic sheeting. Surface runoff shall be directed around the area. The stockpile shall be covered at the end of each day and during rainfall events. The cover shall consist of 10 millimeter thick (minimum thickness) plastic sheeting anchored with sandbags or similar ballast, and the integrity of the cover shall be maintained and repairs to the cover made promptly, as needed.

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Only excess contaminated soil shall be removed from the project and hauled off-site for disposal. Contaminated soil, if suitable for reuse as backfill, shall only be reused at the same location and depth from where it was excavated.

If you have any questions or require additional information, please call me.

Sincerely,

STRAND ASSOCIATES, INC.®

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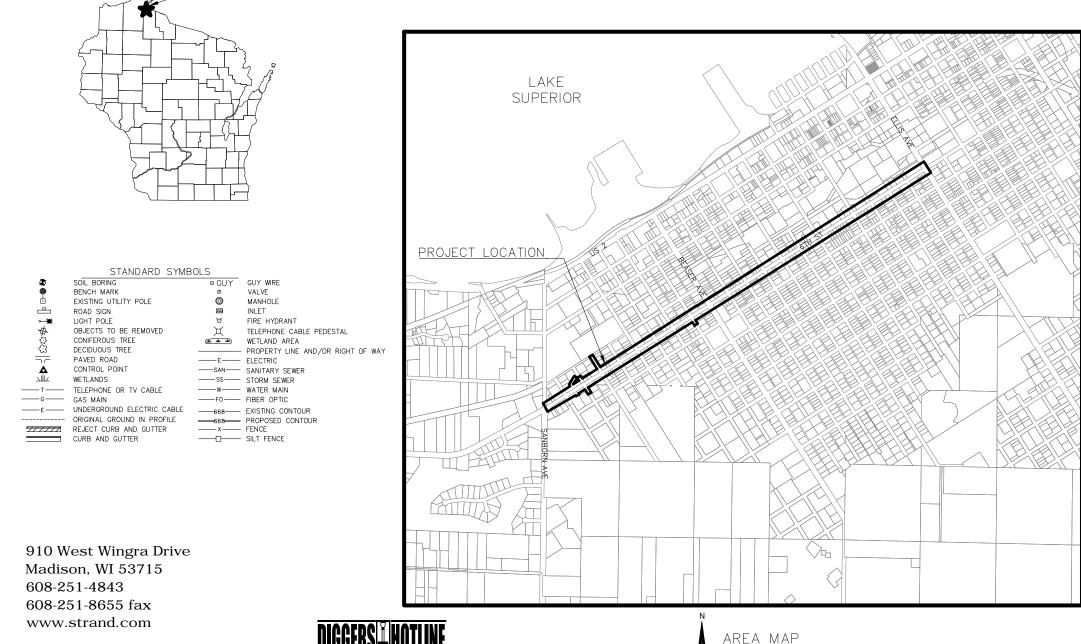
Luke T. Hellermann, P.G.

Enclosures

c/enc.: Mr. Ray Hyde, City of Ashland, Director of Public Works Mr. Patrick Rank, Strand Associates, Inc.®

6TH STREET WEST RECONSTRUCTION FOR THE CITY OF ASHLAND ASHLAND COUNTY, WI DECEMBER, 2015

NO SCALE



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Draft Review Set 12-23-15

LIST OF DRAWINGS

SHEET NO.	DRAWING TITLE
1	TITLE SHEET
2	TYPICAL SECTIONS
3-4	STORM SEWER TABLES
5-9	TRAFFIC CONTROL PLAN
10-13	EROSION CONTROL PLAN
14-18	INTERSECTION DETAILS
19-22	PAVEMENT MARKING AND SIGNING PLAN
23	APRON ENDWALL GRADING DETAILS
24	PRESSURE REDUCING VALVE DETAIL
25-43	PLAN AND PROFILE SHEETS
44-126	CROSS SECTIONS

UTILITY OWNERS

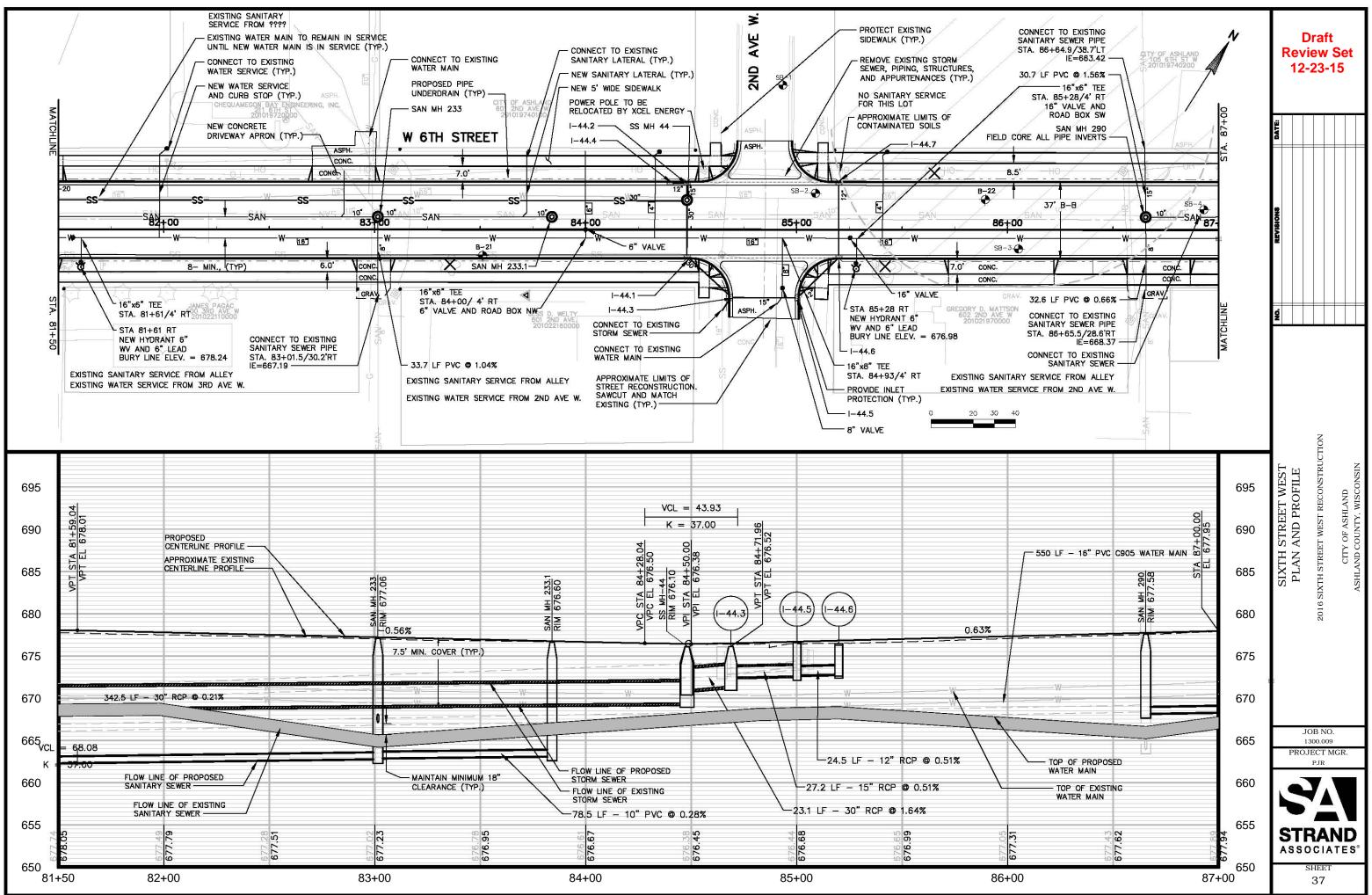
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XCEL ENERGY 2400 FARM ROAD ASHLAND, WI 54806 MR., MURRAY SMERER (715) 209-3071 MERIT NETWORK 100 OAKBROOK DRIVE SUITE 200 ANN ARBOR, MI 48104-6794 MR., CARLOS RAMOS (734) 476-3873

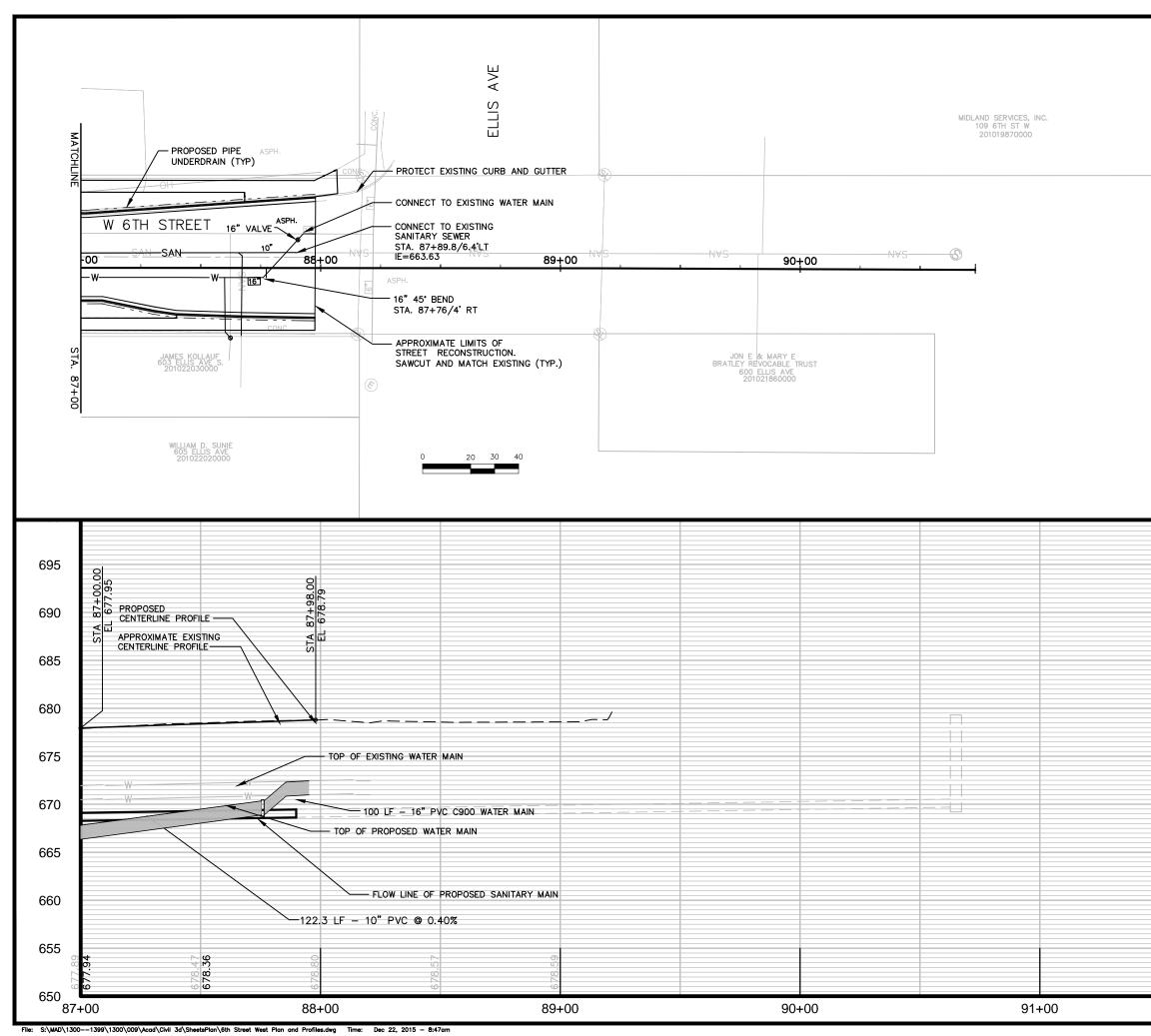
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CHARTER COMMUNICATIONS 2016 18 ¾ STREET RICE LAKE, WI 54868 MR. TOM HAASE (715) 418-9317

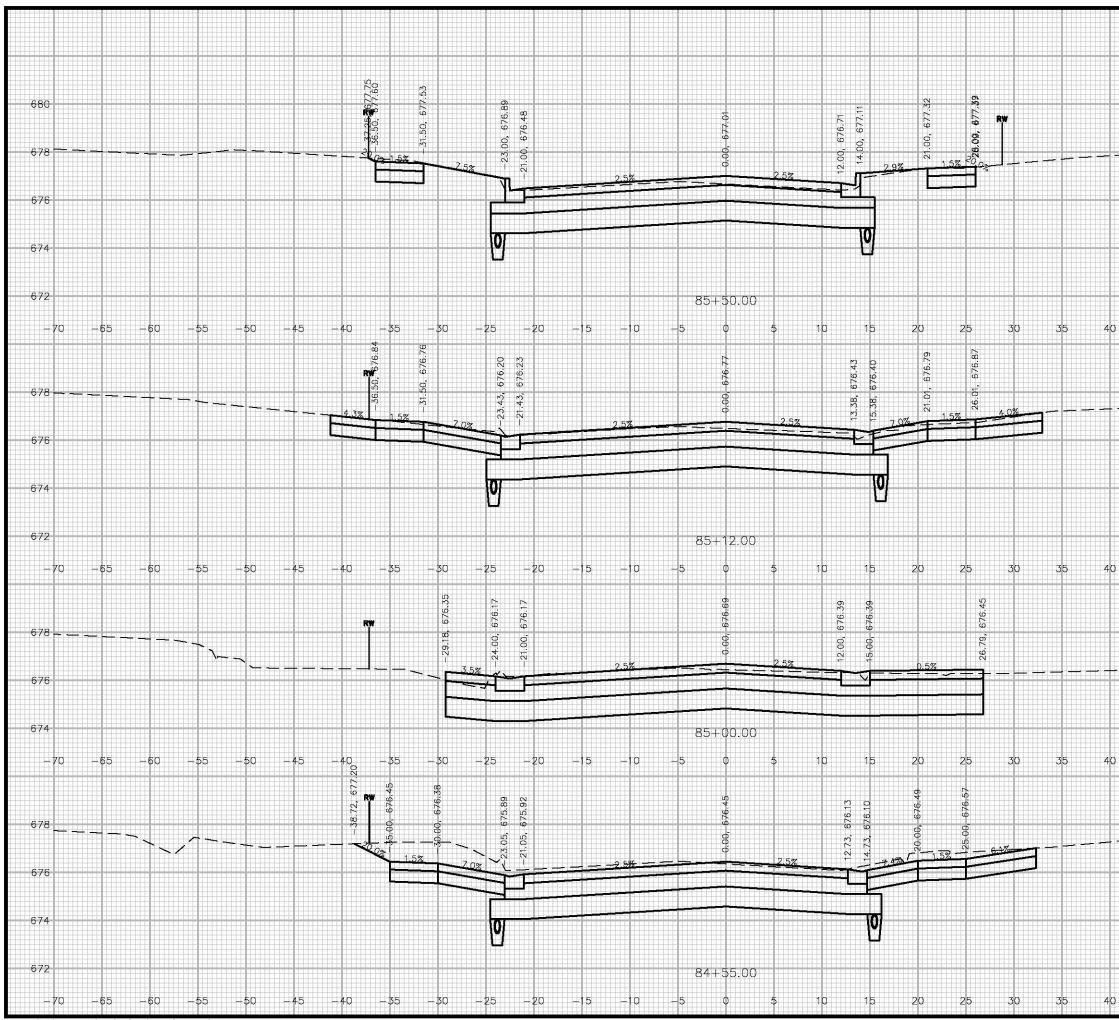




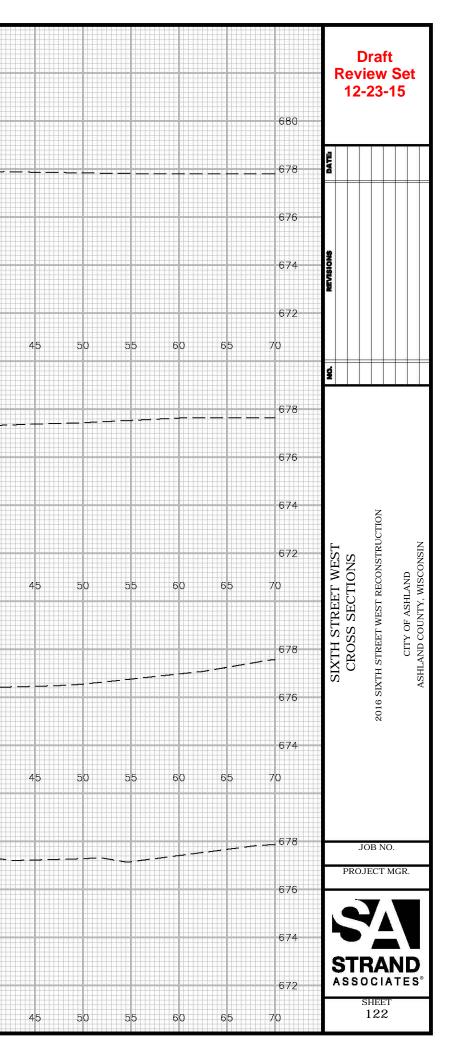
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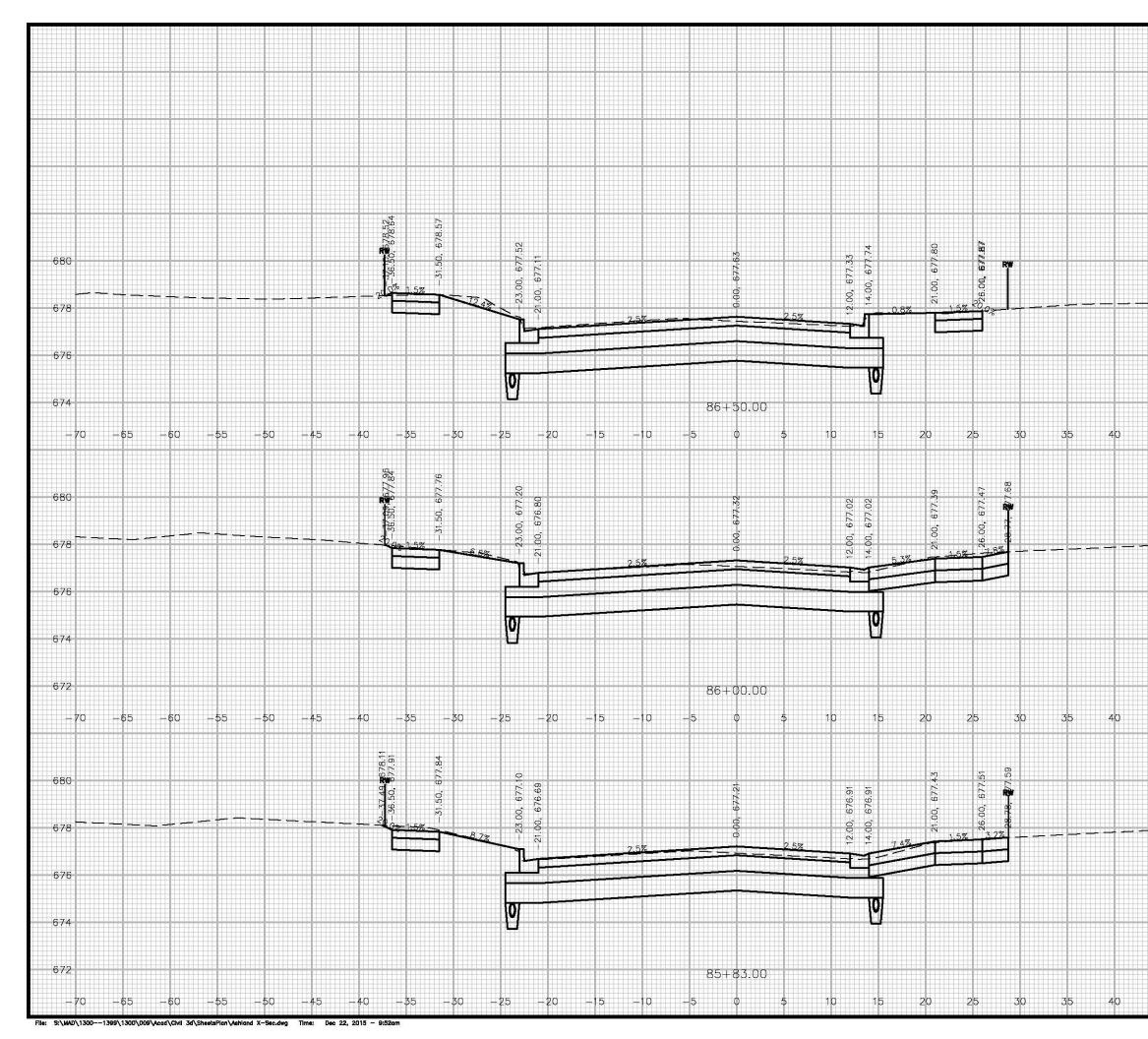


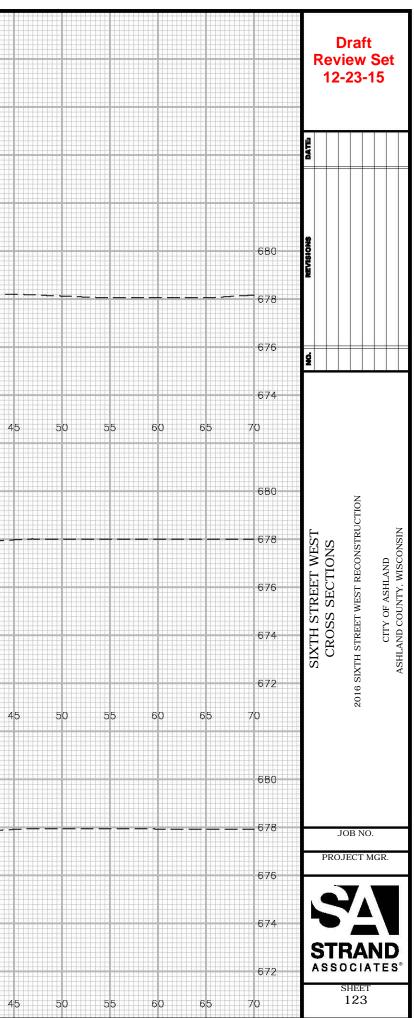
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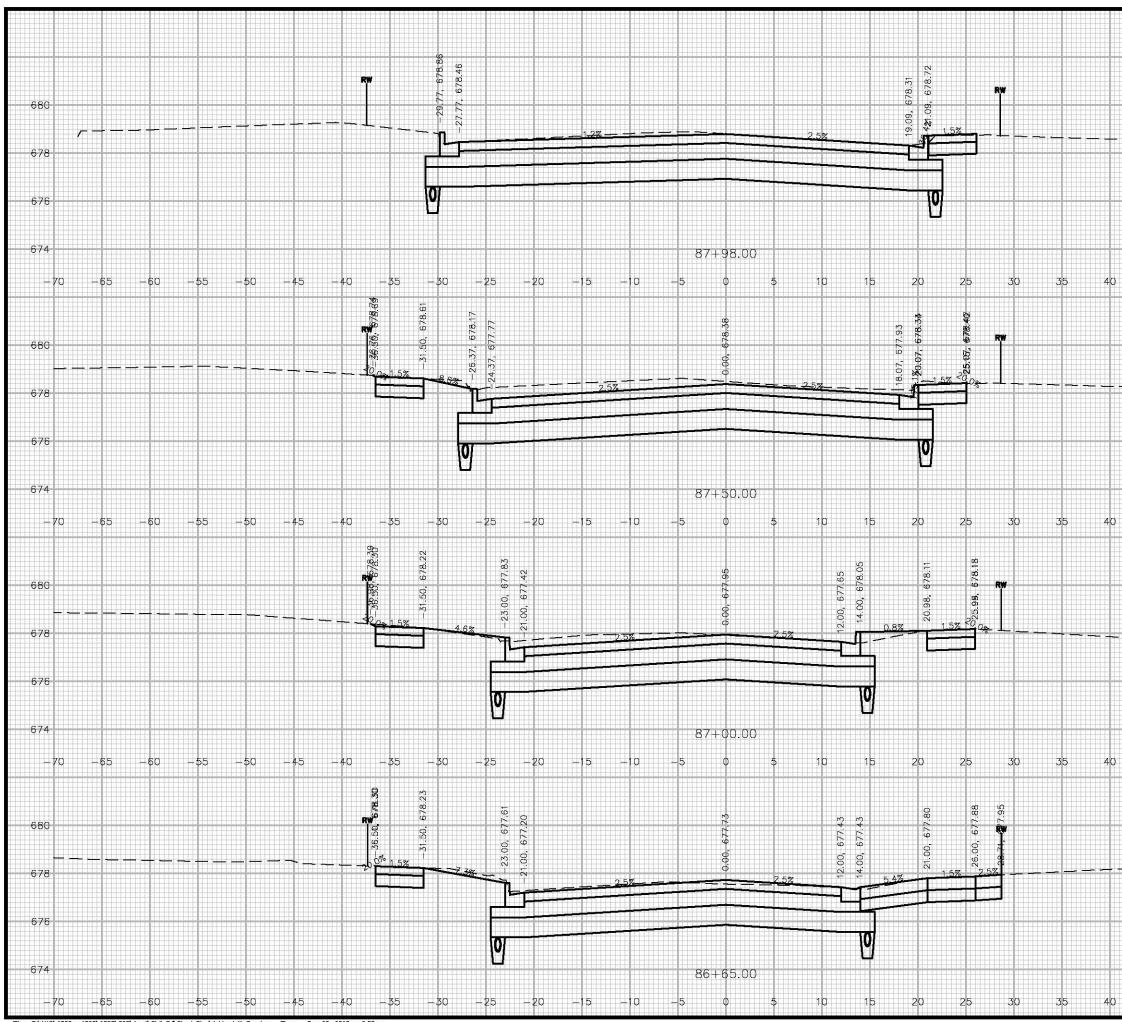


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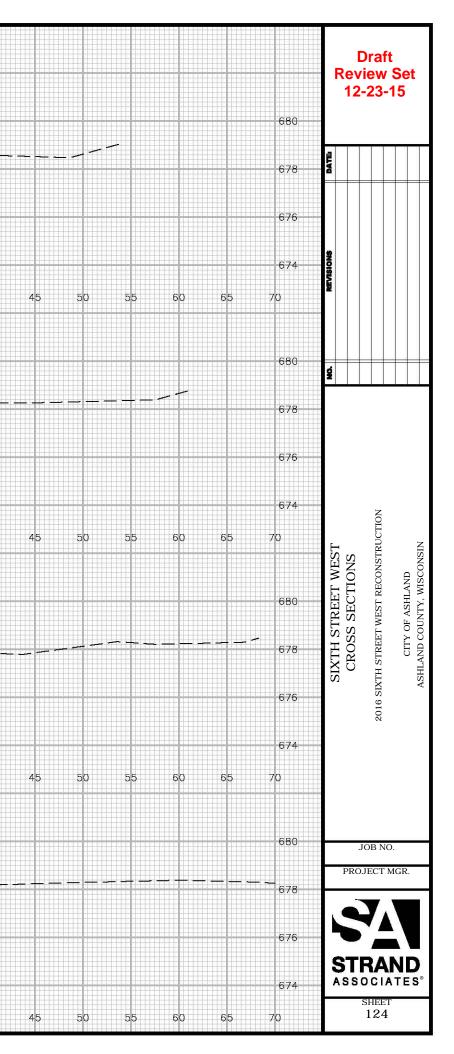








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Ashland 1300.010 GTSF West

Strand Associates, Inc.® 910 West Wingra Drive Madison, WI 53715 (P) 608-251-4843 (F) 608-251-8655



November 4, 2015

Mr. Raymond Hyde, Director of Public Works City of Ashland 2020 6th Street East Ashland, WI 54806

Re: Investigation of Petroleum-Contaminated Material 6th Street West Right of Way

Dear Ray,

This letter report summarizes the results of the soil sampling completed within the street right of way (R/W) adjacent to 105 6th Street West in Ashland. The investigation was completed to assess the extent of petroleum-contaminated material that will be encountered during the reconstruction of 6th Street West.

Background

Soil samples were collected in May 2015 from 22 geotechnical borings constructed along the project corridor. Soil samples from the geotechnical borings were field-screened with a photoionization detector (PID) to identify volatile contaminants, such as petroleum, in the soil samples. Elevated PID readings were detected at one boring, B-22, located adjacent to the City of Ashland property at 105 6th Street West (former Quearm Oil). The elevated PID readings recorded and the obvious petroleum odor noted at this boring (from approximately 0 to 4 feet) indicated that petroleum-contaminated soil likely extends into the 6th Street West R/W at that location.

Contamination Investigation

Follow-up investigation was completed on September 29, 2015, to define the extent of contamination in the street R/W near geotechnical boring B-22. Four soil borings were constructed and soil samples were collected for field screening and laboratory analysis. The locations of geotechnical borings in the area (B-21 and B-22) and the new site investigation borings (SB-1 through SB-4) are shown in Figure 1.

Each site investigation boring (SB-1 through SB-4) was advanced to 10 feet, soil samples were screened with a PID, and one sample from each boring was submitted for laboratory analysis for volatile organic compounds (VOCs) and lead. Soils observed beneath the pavement were typically sand, gravel, and clay fill materials to depths of 2 to 3 feet underlain by native red-brown clay soil. Groundwater was not encountered at any borings and no groundwater samples were collected. Soil boring logs and soil boring abandonment forms are enclosed with this letter. The boring logs show the soil type, field observations, and the PID readings recorded at each boring.

Investigation Results

As shown in Figure 1, the site investigation borings (SB-1 through SB-4) were constructed to the east, west, north, and south of the location where contamination was first detected, geotechnical boring B-22. No PID readings greater than 5 parts per million (ppm), no odors, and no visual indications of petroleum contamination were observed at borings SB-1, SB-2, or SB-4. Analysis of the soil samples from these borings also did not detect any significant contamination. No contamination was detected at levels exceeding NR 720 direct contact soil standards for noncommercial sites. Field observations and soil analytical data indicate petroleum

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Mr. Raymond Hyde City of Ashland Page 2 November 4, 2015

contamination from 105 6th Street West (the former Quearm Oil site) does not extend to these boring locations.

At boring SB-3, a slightly elevated PID reading of 5.7 ppm was recorded in the sample collected from just below the pavement to the depth of 2.5 feet. An obvious petroleum odor was also noted in this sample of sand, gravel, rock, and silt fill materials. Laboratory analysis of the sample detected petroleum-related contamination at higher concentrations than what was detected at other borings. However, concentrations were also below NR 720 direct contact standards for noncommercial sites.

Soil analytical results are summarized in the enclosed data tables for borings SB-1 through SB-4. The tables show the concentrations of the contaminants detected and the associated NR 720 direct contact soil standards for noncommercial sites. A copy of the laboratory analytical report is also enclosed.

Recommendations

No additional investigation is recommended. The area of contaminated soil that could impact the 6th Street West Reconstruction Project has been defined and is shown in Figure 1. The extent of contamination is defined by boring SB-1 to the north and by borings SB-2 and SB-4 to the west and east. Contamination appears to extend across 6th Street West to the south to the area of SB-3. Contamination is likely limited to the shallow fill material directly beneath the pavement. Native soils in the area are tight clays and highest potential for those soils to be contaminated (depths below 2 to 4 feet) would be directly adjacent to the Quearm Oil site.

With the site information acquired, contract specifications can be prepared for the reuse of contaminated soils on the project to the maximum extent practicable with off-site landfill disposal of excess contaminated soil. Depending on the extent of contamination encountered during construction, there are two potential scenarios:

- 1. If contamination is limited to the shallow fill material above the native clay soils, the estimated volume of contaminated soil/fill that will be excavated is approximately 770 cubic yards.
- 2. If contamination is found at greater depths, the contaminated soil volume will increase. The worst-case scenario would be that all excavated soil within the defined zone is contaminated. That volume would be approximately 1,225 cubic yards.

Coordination with the Wisconsin Department of Natural Resources (WDNR) should be initiated and a Soil Management Plan should be prepared and submitted to the WDNR for review and approval. The Soil Management Plan will report the previously collected soil analytical data to the WDNR and will outline proposed contaminated soil reuse, stockpiling, and landfill disposal for the project.

Please call me with any questions or if you would like to discuss these investigation results and recommendations in more detail.

Sincerely,

STRAND ASSOCIATES, INC.®

Luke T. Hellermann, P.G.

Enclosures

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	ELE	SAMF	SAMPLE -	PLE	REC	ATE	RAP	A CH								PID READING	×	PLA LIMI	SHC 1% 10	20	CONT	R ENT %	∆ 40	LIQUID LIMIT %
		0,	S	SAN		5	0	RAT	SURFAC	E ELEVA1	FION:					D RE		OTA	NDARD PE	1.	1			00
0.0				m				ST	1/4" 00	whalt over	r 4" o	oporata				E S	Ē	514	110	20	130		40	50
								0.3	2" brow	phalt over vn/grey m	odera	ately mois	t, moderate	ely	loose, silt.									
		1	cs				1. 21		Red br	own mode	eratel	ly, modera	ately dry tig	ht	clay.	1.8								
							2																	
							1	2.5	Red br	own, mod	lerate	ely dry, tig	ht clay											
																1								
		2	CS				1									0.6								
							1	1																
				+++			1																	
							1															3		
		3	cs				1									0.4								
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		4	CS				1									0.4								
10.0																								
10.0				111				10.0	End of	Boring														
											_			_			1	_						
	WATE NE	RL	EVEL						THE ST	TRATIFICA	ATION				IE APPROXIMA RANSITION MA					BETWE	EN S	SOIL T	YPES	
	WATE	RLE	EVEL				-	BORI	NG START	ED	BOR	ING COM	PLETED	AB	BREVIATIONS	: ACF	-After	Cas	ina Rem	ioval, E	CR-	Before	Casir	ıg
	14/1-			_		_	_	09/2			09/2	29/15		NE	moval, AB-Afte	ered. [DB-Dia	amor	nd Bit, H	SA-Hol	low !	Stem /	Auger.	
	WATE	:RLE	=VEL					CAVE	IN LEVEL					RB	-Rock Bit, SS-S tary, CS-Contin	Split Sp	boon, l	ST-S	shelby Tu	ube, PA	-Po	wer Au	uger, N	1R-Mud
	SPT H	AM	MER					RIG		CREW C	HIEF			WL	-Water Level, V	VOH-V	Veight	of H	lammer,	EIL-E)	Ceed	ls Inst	rumen	t Level,
								662	5CPT	JJ				IS	-Topsoil, PP-Po	ocket F	'enetro	omet	er	_		_		

BOREHOLE LOG 15M7161.GPJ TWINPORT.GDT 11/4/15

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Well / Drillhole Jorehole Filling & Sealing Report Form 3300-005 (R 4/2015)

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 chs. NR 141 and 812, 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.

[5] M. S. Martin, M. M. S. M. S. Martin, "And M. S. Martin, "And M. S. Martin, "And "And "And "And "And "And "And "And	Route to DNR Bureau:		
Verification Only of Fill and Seal	Drinking Water	Watershed/Wastewater Remediation/Redevelopme	Int
	Waste Managemer	ent Other:	
1. Well Location Information		2. Facility / Owner Information	100
County WI Unique Well # of	Hicap #	Facility Name	
Removed Well			
Ashland		Facility ID (FID or PWS)	
Latitude / Longitude (see instructions) Format			
<u>46° 35' 16. 37</u> [™] N □C	SCR002	License/Permit/Monitoring #	
90° 52' 50.71" W	DDM OTHOO1		
1/1/4 NE 1/4 NW Section Tow	nship Range E	Original Well Owner	
or Gov't Lot# 4 4			
Well Street Address		Present Well Owner	
6th St W between and Ave W. &	STH 13		
Well City, Village or Town	Well ZIP Code	Mailing Address of Present Owner	
Ashland	54806		
Subdivision Name	Lot #	City of Present Owner State ZIP Code	
Reason for Removal from Service WI Unique Well	# of Replacement Well	The set of the second of the second of the second of the second of the second of the second of the second of the	SALE I
			A/A
3. Filled & Sealed Well / Drillhole / Borehole	Information		N/A
Monitoring Well Original Construction	on Date (mm/dd/yyyy)		A/A
0100115			A/A
valei vveli	on Report is available,	_ Casing left in place?YesNoN	N/A
Borehole / Drillhole please attach.		Was casing cut off below surface?	N/A
Construction Type:		Dld sealing material rise to surface?	N/A
Driven (Sandpoint)	Dug	Did material settle after 24 hours?	A/A
Other (specify):		If yes, was hole retopped?	N/A
Formation Type:		If bentonite chlps were used, were they hydrated with water from a known safe source?	N/A
Vinconsolidated Formation	ock	Required Method of Placing Sealing Material	-
Total Well Depth From Ground Surface (ft.) Casing I	Diameter (in.)	Conductor Pipe-Gravity Conductor Pipe-Pumped	
		Bentonite Chips)	
Lower Drillhole Diameter (in.) Casing I	Depth (ft.)	Sealing Materials	
		Neat Cement Grout Concrete	
·····		Sand-Cement (Concrete) Grout	
Was well annular space grouted? Yes	No Unknown		
If yes, to what depth (feet)? Depth to Wate	er (feet)	Bentonite Chips Bentonite - Cement Grout	
		Granular Bentonite Bentonite - Sand Slurry	
5. Material Used to Fill Well / Drillhole		From ((L) To (R) No. Yards, Sacks Sealant or Mix Ratio or	2
		volume (circle one) Mus veight	1
Bentonite chips capped with a	ement	Surface 10 1/a sack	-
6. Comments			
	The second second second second second		
Borehole filled to 91/2' with 1	nentonite chia.	s, cooped with a cement	

7. Supervision of Work				DNF	R Use Only
Name of Person or Firm Doing Filling & Sealing Twin Ports Testing	Licens	(* *)	of Filling & Sealing or Verification	Date Received	Noted By
Street or Route	1.		Telephone Number	Comments	
1301 N 310 ST			(715) 392-7114		
	State WI	ZIP Code 548 80	Signature of Person Doing.	Vork	Date Signed

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

Well / Drillhole / Borehole Filling & Sealing Report Page 1 of 2

Form 3300-005 (R 4/2015)

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perpeter source and opposite		Ro	oute to DNR Bureau	:								
Verification Only of Fill	and Seal		Drinking Water		Watershed/W	/astewater	Remed	lation/Redevelopment				
		Ī	Waste Managem	ent	Other:							
1. Well Location Information			A CONTRACTOR OF A	2. Facility	/ Owner Inf	ormation						
County WI Uni	que Well # o	f Hic	ap#	Facility Nam	A DESCRIPTION OF TAXABLE PARTY OF TAXABLE PARTY.							
	ved Well											
Ashland Latitude / Longitude (see instruction	uris) [f	Format Cod	de Method Code	Facility ID (I	FID or PWS)							
46' 35' 15.73"	N		GPS008									
90" 58' 5). 47"		NDDA	SCR002	License/Per	mit/Monitoring	#						
	W			Orlainat Ma	Querar							
VATYA NE VA NW	Section	Townsh		Original We	II Owner							
or Gov't Lot #	4	47	NYXW	Present We	I Owner							
Well Street Address				i losen iro	il offici							
6" Stw between	and ave		ST H 13 Well ZIP Code	Mailing Add	ress of Preser	nt Owner						
Well City, Village or Town				Contraction of the second	an all and a second							
Ashland Subdivision Name			54806 Lot#	City of Pres	ent Owner		State	ZIP Code				
Subdivision Name		ľ										
Reason for Removal from Service	WI Unio	ue Well # o	of Replacement Well	4. Pump,	Liner, Scree	en, Casing & S	ealing Mate	erial				
				Pump an	d piping remov	ved?		Yes No N/A				
3. Filled & Sealed Well / Dril	hole / Bor	ehole Inf	ormation	Liner(s) removed?								
Monitoring Well	Original Con	struction D)ate (mm/dd/yyyy)		erforated?			Yes No N/A				
	91291	15		Screen re				Yes No N/A				
Water Well			Report is available,	Casing left in place?								
Borehole / Drillhole	please attac			Was casing cut off below surface?								
Construction Type:					ng material rise			Yes No N/A				
Drilled Driven (Sandpoint)		Dug	5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5	rial settle after			Yes No N/A				
Other (specify):					, was hole ret			Yes No N/A				
Formation Type:						used, were they h n safe source?		Yes No N/A				
X Unconsolidated Formation		Bedrock		Required M	ethod of Placin	ng Sealing Materia	al					
Total Well Depth From Ground Su	face (ft.)	asing Diar	meter (in.)	Condu	ictor Pipe-Gra	vity Conduct	tor Pipe-Pump	oed				
					ned & Poured	Other (E	Explain):					
Lower Drillhole Diameter (in.)	0	asing Dep	th (ft.)	Sealing Mat	onite Chips) erials							
		cong pop		Contraction of the second	Cement Grout		Concrete					
					Cement (Cond	crete) Grout	Bentonite	Chins				
Was well annular space grouted?		res 🗙	No 🗌 Unknown			Monitoring Well B	يد					
If yes, to what depth (feet)?	Depth	to Water (f	eet)		nite Chips		ntonite - Ceme					
					lar Bentonite		ntonite - Sand					
	15 000 0	nice de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía d		IT OF A DESCRIPTION OF	A REPORT OF THE OWNER	No. Yards, Sack		Mix Ratio or				
5. Material Used to Fill Well	out a date of the second second	Provident and	THIS PERSON WITH	From (ft.)	To (ft.)	Volume (cir		Mud Weight				
Bentonite chips ca	pped wi	th ce	ment	Surface	10	1/2 SOCK						
	3139			-								
6. Comments			AN ADDRESS OF ADDRESS OF	N	The second second second second second second second second second second second second second second second s	distant of the		The sufficiency of the second				
	- Internet				Option and the second		THE REPORT OF LESS					
Borehole filled to c	l'la' wit	h ben	tonite chips,	capped	with G"	cement						
7. Supervision of Work				al Charles		(R)	DNR Use					
Name of Person or Firm Doing Fill	ng & Sealing	Licens	No.		g or Verificatio	In Date Received	a	Noted By				
Tuin Ports Testing Street or Route			the second second second second second second second second second second second second second second second se	yyy) q/a	and the second se	Compression						
and an and a special second second second second second second second second second second second second second				elephone Nur 715)39		Comments						
1301 N 3rd St City		State	ZIP Code		Person Doing	a Work	Dat	te Signed /				
		WI	54880	olgriature 0	511/	1.1.211		10/23/15				
Superior		w+	31000		416			10/01/1				

	State ZIP Code	Signature of Person Doing Work	Date Signed //~
oc	WI 54880	PLIC	10/23/15
		, ((4 1

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Well / Drillhole ... Jorehole Filling & Sealing Report Page 1 of 2

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, 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.

	Contraction of the contraction of the second	Route	to DNR	Bureau:					
Verification Only of Fill	and Seal		Drinking V	Vater		Watershed/Wa	astewater	Remed	liation/Redevelopment
		Πv	Vaste Ma	inagemer	nt 🗍	Other:			
1. Well Location Information	Margal Aller	Margine 1	- WIES	S. 5.18.	2. Facility	Owner Info	ormation	WINAL DA LA	FURE TO DESIDE
County WI Unio	que Well # of	licap #	1		Facility Name				
	ed Well								
Ashland	ns) Format	Code	Method	Code	Facility ID (FI	ID or PWS)			
46° 35' 15.45"				PS008					
4				CR002	License/Pern	nit/Monitoring	#		
Tax Max	w 🛛 🖾 🗆			TH001					
VATA NE VA NW		nship	Range	E	Original Well	Owner			
or Gov't Lot #	4 4	7 N	4	XW	One en al Marall	0			
Well Street Address					Present Well	Owner			
6th St w between a	not Ave W. E		H 13		Mailing Addr	ess of Present	Ownor		
Well City, Village or Town			ZIP Cod	e	Manny Addre	ess of Fresen	Owner		
Ashland		_	806		City of Prese	nt Owner		State	ZIP Code
Subdivision Name		Lot #	t		oity of 1 1636			otato	Zir Gode
0	han it i tar a				4 Pump 1	iner Scree	n, Casing & S	ealing Mat	erial
Reason for Removal from Service	WI Unique Well	# of Re	eplaceme	ent Well		piping remove			Yes No N/A
					Liner(s) re				
3. Filled & Sealed Well / Drill	Original Construction			anna	Liner(s) pe			H	Yes No N/A
Monitoring Well		(miniadas)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Screen rer			П	Yes No N/A	
Water Well	912912015				Casing left	t in place?		П	Yes No N/A
	If a Well Constructi please attach.	on Rep	ort is ava	ilable,	Was casin	g cut off below	v surface?		Yes No N/A
Construction Type:	please allacht.					a material rise		님	
	Candoolot)	Du	~			al settle after :		H	Yes No N/A
	Sandpoint)		y			was hole reto		F	Yes No N/A
Other (specify):							used, were they h	iydrated	
Formation Type:							safe source?		Yes No N/A
Unconsolidated Formation							g Sealing Materia		
Total Well Depth From Ground Sur	face (ft.) Casing [lamete	er (in.)			ctor Pipe-Grav	rity Conduct	tor Pipe-Pum	ped
						ed & Poured hite Chips)	Other (E	xplain):	
Lower Drillhole Dlameter (in.)	Casing I	Depth (fi	t.)		Sealing Mate	erials			
					Neat Co	ement Grout		Concrete	
					Sand-C	ement (Conci	rete) Grout	Bentonite	Chips
Was well annular space grouted?	Yes	No	Lυ	nknown	For Monitorin	ng Wells and N	Monitoring Well B	oreholes Onl	v:
If yes, to what depth (feet)?	Depth to Wate	r (feet)			1	ite Chips	_	ntonite - Cem	
					Granulz	ar Bentonite		ntonite - Sano	1 Slurry
	Dwillingto	1 12			No. of Concession, Name	NAME OF TAXABLE	No. Yards. Sack		
5. Material Used to Fill Well /	the second second second second second second second second second second second second second second second s	No. al			From (ft.)	To (fL)	Volume (cir		Mud Weight
Bentonite chips can	pped with c	emei	nt		Surface	10	1/a sack		
C. Campanala		12000	- Alera				Contraction of the local division of the loc		
6. Comments		State State	1. 2. 1. 1. 1.	and the second second		the at		STATISTICS &	LA DA HE HIT A TRUT
Borehole filled to 9	le with be	ntoni	te cl	nips, c	capped w	G"	of cement		
7. Supervision of Work	THE PARTY AND	1031	12-31	the start		Byo'r Gui		DNR Use	Only
Name of Person or Firm Doing Filli	ng & Sealing Lic	ense #			ling & Sealing		n Date Receive		Noted By
Twin Ports Testing			()	mm/dd/yy		112015			
Street or Route	Te	elephone Num	ber	Comments					

ol N 3rd St			(715) 398-7114	
	State	ZIP Code	Signature of Person Doing Work	Date Signed
uperior	WI	54880	AC	10/23/15

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Well / Drillhole / Borehole Filling & Sealing Report Form 3300-005 (R 4/2015) Page 1 of 2

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	Route to DNR Burea	u:
Verification Only of Fill and Seal	Drinking Water	Watershed/Wastewater Remediation/Redevelopment
	Waste Manager	nent Other:
1. Well Location Information		2. Facility / Owner Information
County WI Unique Well # of Removed Well	Hicap #	Facility Name
Ashland		Facility ID (FID or PWS)
Latitude / Longitude (see instructions) Format (
46° 35' 15.51" N D	D SCR002	
90° 52' 53.16" W 🖾 D	DM OTHO01	
1414 NE 4 NW Section Town	nship Range E	Original Well Owner
or Gov't Lot # 47	NY XV	N
Well Street Address		Present Well Owner
6th STW between and Ave W 1	E STH 13	Mailles Address of Brasset Ourses
Well City, Village or Town	Well ZIP Code	Malling Address of Present Owner
Ashland	54806	City of Present Owner State ZIP Code
Subdivision Name	Lot #	
Reason for Removal from Service WI Unique Well	# of Replacement We	4. Pump, Liner, Screen, Casing & Sealing Material
		Pump and piping removed?
3. Filled & Sealed Well / Drillhole / Borehole	Information	Liner(s) removed?
Monitoring Well Original Construction	n Date (mm/dd/yyyy)	Liner(s) perforated?
0/29/2015	-	Screen removed?
If a Well Construction	on Report is available,	Casing left in place?
Borehole / Drillhole please attach.		Was casing cut off below surface?
Construction Type:		Did sealing material rise to surface?
Drilled Driven (Sandpoint)	Dug	Did material settle after 24 hours?
Other (specify):		If yes, was hole retopped?
Formation Type:		with water from a known safe source?
Unconsolidated Formation Bedro	ck	Required Method of Placing Sealing Material
Total Well Depth From Ground Surface (ft.) Casing D	Diameter (In.)	Conductor Pipe-Gravity Conductor Pipe-Pumped
		(Bentonite Chips) Other (Explain):
Lower Drillhole Diameter (in.) Casing D	Pepth (ft.)	Sealing Materials
		Neat Cement Grout Concrete
		Sand-Cement (Concrete) Grout 💭 Bentonite Chips
	No Unknow	For Monitoring Wells and Monitoring Well Boreholes Only:
If yes, to what depth (feet)? Depth to Wate	r (feet)	Bentonite Chips Bentonite - Cement Grout
		Granular Bentonite Bentonite - Sand Slurry
5. Material Used to Fill Well / Drillhole		From (ft.) To (ft.) No. Yards, Sacks Sealant or Mix Ratio or Volume (circle one) Mud Weight
Bentonite Chips capped with Cr	ement	Surface 10 1/2 Sack
6. Comments	- 10 ab 100 at	and with all of a ament
Borehole filled to 9 1/2' with bento	mite chips, ca	ppeor with 6" of Centerit

7. Supervision of Work	DNR Use Only				
Name of Person or Firm Doing Filling & Sealing	License	# Date o	f Filling & Sealing or Verification	Date Received	Noted By
Twin Ports Testing		(mm/d	d/yyyy) 9/29/2015		
Street or Route			Telephone Number	Comments	
1301 N 3rd St			(715)392-7114		
City	State	ZIP Code	Signature of Person Doing V	Vork	Date Signed
Superior	WI	54880	DH	6	10/23/15
			()		/

Note: This Summary is OLD. Update with 'Get Summary' in Row 872 of the applicable *_DC_RCLs worksheet.

BRRTS # :	# of Soil-Concentration Entries:	3	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
SB-1, 6th St West, Ashland	Bottom-Line:	Ves levels ar	0 a below direct-c	0.0004 ontact concern.	1.9E-09
	bitom Line.	100, 107013 di		ondot concern.	

Date of Entry: 10/16/2015. List below only has contaminants with data. Date of Worksheet Used: 01/22/2015.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedancel	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Tetrachloroethylene	127-18-4	115.	30.7	30.7	ca		0.0151		0.0001	4.9E-10
Lead and Compounds	7439-92-1	-	+	400.	nc	52.	6.2	LOSAL ACCILLS		THURSDAY A SECOND
Methylene Chloride	75-09-2	385.	60.7	60.7	ca	1	0.0856	and the second second	0.0002	1.4E-09
			· · · · · · · · · · · · · · · · · · ·			1		a surrant a		$P \in \mathcal{A}$
									[: 이 : 이 : 이 : 이 : 이 : 이 : 이 : 이 : 이 : 이	
	į					1	1	Station Sal	29.60% (19.90	
									1. 19 Street 2018/1	
					12122/12			A COLORED AND		
									S. Bernett	
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							al	M. Report		
								122-11-01-22		
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						1		- 3, 2 h	Londielle	
								and the second s		and the second second
								ENCE ACTOR	12.5	
						1	1		150 at 19.00	CONTRACTOR DECISION
				1					13 - 2 BC - 2 - 3 B	

BRRTS # :	# of Soil-Concentration Entries: 3	Number of (Cumulative) (Cumulative) Individual Hazard Cancer Exceedance Index Risk
SB-2, 6th St West, Ashland		0 0.0102 1.3E-09
	Bottom-Line:	Yes, levels are below direct-contact concern.

Date of Entry: 10:16/2015. Date of Worksheet Used: 01/22/2015

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (rig/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Lead and Compounds Bromomethane Methylene Chloride	7439-92-1 74-83-9 75-09-2	- 10.3 385.	- 60.7	400. 10.3 60.7	nc nc ca	52.	4. 0.103 0.0782		0.01	1.3E-09
]			
		(a)								
							•			

1/1

BRRTS # :	# of Soil-Concentration Entries:	9	_	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
SB-3, 0 to 2.5 ft, 6th Street West, Ashland	i, WI			0	0.0139	3.1E-07
	Bottom-Line:		Yes, levels are	e below direct-c	ontact concern.	

Date of Entry: 10/20/2015. List below only has contaminants with data. Date of Worksheet Used: 01/22/2015.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To- Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedancel	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzene	71-43-2	111.	1.49	1.49	са		0.133	Stor Bard	0.0012	8.9E-08
Ethylbenzene	100-41-4	4,220.	7.47	7.47	ca		0.0466	- Constant	0.	6.2E-09
Xylenes	1330-20-7	890.	-	258.	Csat		0.06	Contract Contract	0.0001	
Tetrachloroethylene	127-18-4	115.	30.7	30,7	ca		0.0131	Part and C	0.0001	4.3E-10
Trimethylbenzene, 1,2,4-	95-63-6	89.8	1-	89.8	nc	1	0.0479		0.0005	Completion of Completion
Naphthalene	91-20-3	188.	5,15	5.15	ca	1	1.11	THE REAL	0.0059	2.2E-07
Lead and Compounds	7439-92-1	-	-	400.	nc	52.	5.3	The state and	The second second	
Bromomethane	74-83-9	10.3	-	10.3	ΠC	1	0.0608	des des a	0.0059	The second second second second second second second second second second second second second second second s
Methylene Chloride	75-09-2	385.	60.7	60.7	са		0.0729		0.0002	1.2E-09
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BRRTS # :	# of Soil-Concentration Entries: 3	Numb Individ Exceed	ual Hazard	(Cumulative) Cancer Risk
SB-4, 6th St West, Ashland		0	0.0106	1.2E-09
	Bottom-Line:	Yes, levels are below d	rect-contact concern	

Date of Entry: 10/16/2015. List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedancel	Hazard Quotient (HC) from Data	Cancer Risk (CR) from Data
Lead and Compounds Bromomethane Methylene Chloride	7439-92-1 74-83-9 75-09-2		60.7	400. 10.3 60.7	nc nc ca	52.	5.7 0.107 0.0704		0.0104	1.2E-09
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