

August 13, 2014

Mr. Randall Rothe Michigan Department of Environmental Quality 2100 West M-32 Gaylord, Michigan 49735

Re: Expanded Triage Program (ETP) – Limited Site Investigation Creekside, LLC 5860 Ford Road Ann Arbor, Washtenaw County, Michigan Facility ID: #5-0005414

Dear Mr. Rothe:

The Mannik & Smith Group Inc. (MSG) has been retained by the Michigan Department of Technology, Management and Budget (DTMB) to provide limited site investigation services on behalf of the Department of Environmental Quality (DEQ) under their Expanded Triage Program (ETP). This report summarizes MSG's limited site investigation activities conducted at the Creekside, LLC site, located at 5860 Ford Road in Ann Arbor, Washtenaw County, Michigan (*Figure 1, Site Location Map*).

These activities were performed in general accordance with our 2014 Environmental Expanded Triage Work Plan for the Jackson Michigan District. The findings of this report are valid as of the report date, subject to the Limitations presented in *Attachment A, Triage Site Investigation Limitations*.

On April 22, 2014, MSG conducted a geophysical survey at the site within an area defined by Terry Hiske, DEQ's State Project Manager (SPM). Prior to the geophysical survey, MSG contacted MISS-DIG for utility marking at the site. When available, MSG also reviewed utility maps and discussed utility information with the site owners/occupants. The geophysical survey consisted of a ground penetrating radar (GPR) survey and an electromagnetic (EM) survey. The GPR survey was conducted using a Geophysical Survey Systems, Inc. (GSSI) SIR-3000 GPR Data Acquisition System using a 400 Megahertz (MHz) antenna mounted on a wheeled cart. The EM survey was conducted using a Fisher TW-6 pipe and utility locator or similar EM equipment. Anomalies were marked in the field and surveyed with a hand-held GPS unit with subfoot accuracy. GPR penetration depth was approximately eight (8) feet below ground level (bgl). MSG identified the following geophysical features at the site.

- Gas line in the Plymouth Rd. right-of-way was staked by MISS-DIG previously; no new MISS-DIG stakes observed.
- Two (2) major GPR disturbed soil anomalies corresponding to the suspect former UST cavity and former building location.
- Four (4) EM point anomalies interpreted as buried metal.

Results of the geophysical survey and utility information are shown on *Figure 2, Site Schematic* and described in the daily field logs included in *Attachment B, Daily Field Logs*.



DTMB0138.Report.docx

On June 16, 2014, MSG advanced a total of ten (10) soil borings using direct-push techniques. Soil borings were advanced to a maximum depth of 21 feet bgl. Soil profiles were continuously collected from ground surface to boring terminus and field screened with a calibrated photoionization detector (PID). Soils encountered generally consisted of sand with alternating intervals of clay to approximately nineteen (19) feet bgl, underlain by gravel. Groundwater was encountered between 13.5 and 19.5 feet bgl at soil boring locations SB-1 through SB-4, and SB-7 through SB-9. However, due to insufficient sample volume/recharge capacity, groundwater samples were unable to be collected at soil boring locations SB-1, SB-2, SB-4, and SB-7. Indications of petroleum impact (elevated PID readings and/or petroleum-like odor) were observed at soil boring locations SB-5, SB-9, and SB-10. A petroleum-like odor was observed at soil boring locations SB-5 and SB-9 at approximately twenty (20) feet bgl. PID field screenings of the soil profiles ranged from less than 1 parts per million (ppm) to a maximum of 273.6 ppm (SB-9). Soil boring locations are depicted on Figure 2. Daily field logs are included in Attachment B. Soil boring logs are presented in *Attachment C, Soil Boring Logs*. Photographs of the site activities are included in *Attachment D, Photolog*.

Samples for laboratory analysis were selected using the following prioritized field indicators.

- 1. Samples with visible staining, petroleum droplets, sheen, petroleum odors.
- 2. Samples with PID readings above 1,000 parts per million (ppm).
- 3. Samples with PID readings between 500 ppm and 999 ppm.
- 4. Samples with PID readings between 100 ppm and 499 ppm.
- 5. Samples with PID readings between 1 ppm and 99 ppm.
- 6. Soil sample from immediately above the water table (vadose) or soil sample from boring terminus (if no groundwater is encountered) and nearest the source area for saturated soil/groundwater samples.

Below is a summary of samples submitted for laboratory analysis.

Sample ID	Soil Boring	Sample Type	Sample Depth (ft)	Field Indicator
SB-1 (19') S	SB-1	Soil	19	Boring Terminus
SB-2 (18') S	SB-2	Soil	18	Boring Terminus
SB-3 (18.5') S	SB-3	Soil	18.5	Above Water Table
SB-3 (19'-21') W	SB-3	Groundwater	19-21	Groundwater
SB-4 (20') S	SB-4	Soil	20	Boring Terminus
SB-5 (21') S	SB-5	Soil	21	PID = 70.1 ppm, Petroleum-Like Odor
DUP-1S	SB-5	Soil	21	PID = 70.1 ppm, Petroleum-Like Odor
SB-6 (21') S	SB-6	Soil	21	PID = 7.1 ppm
SB-7 (5') S	SB-7	Soil	5	PID = 3.2 ppm
SB-8 (18') S	SB-8	Soil	18	Above Water Table
SB-8 (19'-21') W	SB-8	Groundwater	19-21	Groundwater

Sample Selection Summary

Sample ID	Soil Boring	Sample Type	Sample Depth (ft)	Field Indicator
SB-9 (21') S	SB-9	Soil	21	PID = 273.6 ppm, Petroleum-Like Odor
SB-9 (21') W	SB-9	Groundwater	21	Groundwater, Petroleum-Like Odor
DUP-1W	SB-9	Groundwater	21	Groundwater, Petroleum-Like Odor
SB-10 (21') S	SB-10	Soil	21	PID = 131.5 ppm

MSG collected ten (10) vadose zone soil samples and three (3) groundwater samples. In addition, one duplicate soil and one duplicate groundwater sample was collected for quality assurance/quality control (QA/QC) purposes. Laboratory reports are to be provided directly to the SPM by the laboratory and are not included within this report. A copy of the chain of custody is included in *Attachment E, Laboratory Chain of Custody*.

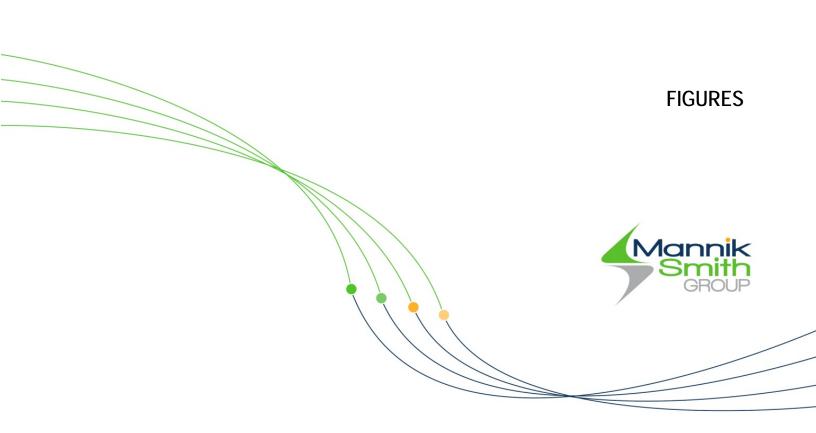
Soil samples were preserved in the field using USEPA Method 5035 and submitted to the MDEQ Laboratory in Lansing, Michigan for analysis of volatile organic compounds (VOCs) using USEPA Method 8260.

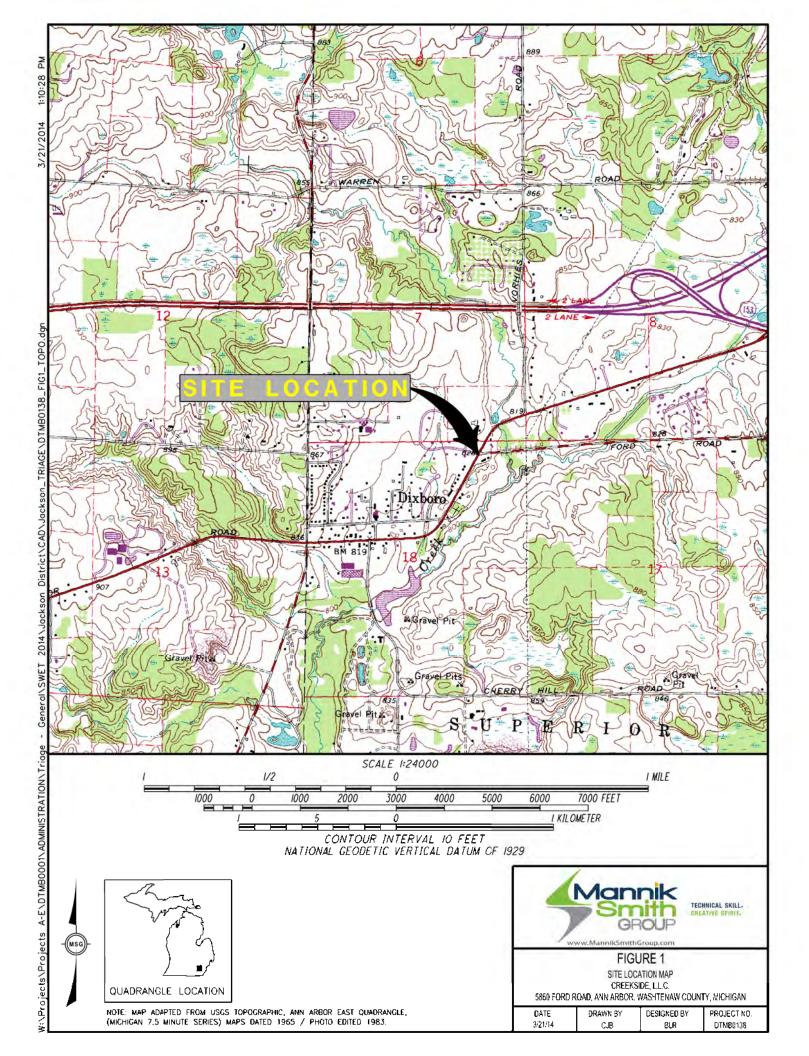
MSG collected groundwater samples from selected borings using a peristaltic pump. Groundwater samples were preserved with hydrochloric acid and submitted to the MDEQ Laboratory for analysis of VOCs using USEPA Method 8260.

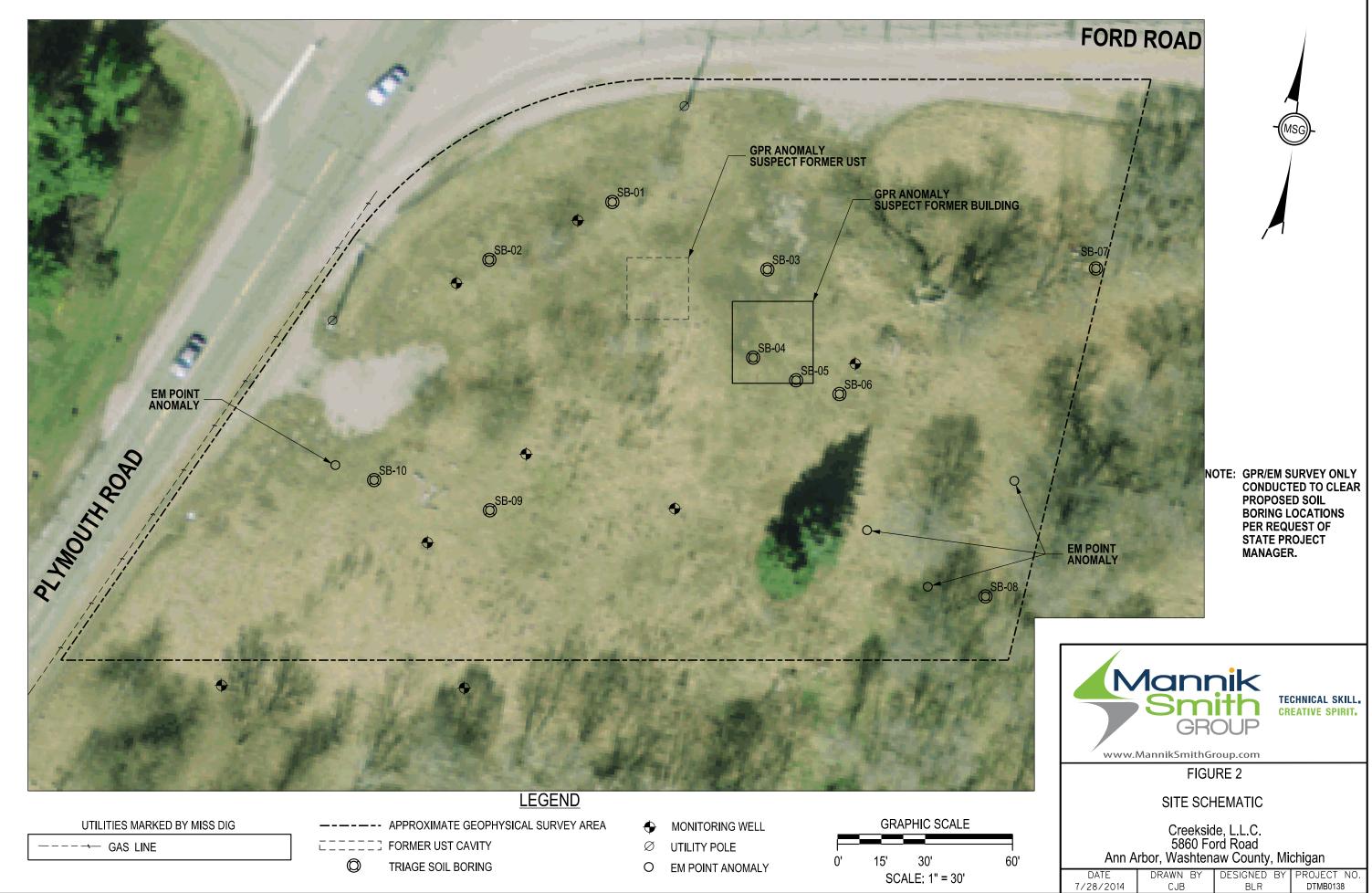
MSG appreciates the opportunity to provide these professional services to the DTMB and DEQ and we look forward to continued opportunities with the State.

Sincerely

Walter J. Bolt, CPO Project Manager/Frogram Manager









TRIAGE SITE INVESTIGATION LIMITATIONS



TRIAGE SITE INVESTIGATION LIMITATIONS

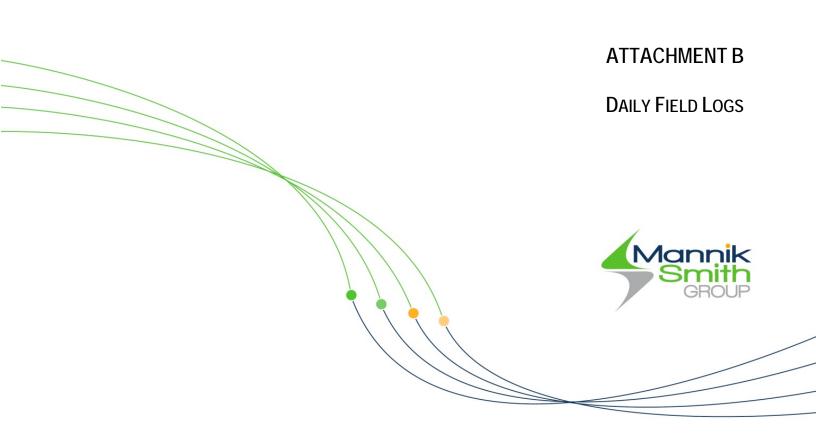
This Limited Site Investigation Report and related documentation are site-specific, which means they pertain to the environmental conditions of the site only. This investigation is bound by authorized project scope of work under this contract.

The Mannik & Smith Group, Inc. (MSG) performed its services associated with the Limited Site Investigation in conformance with the care and skill ordinarily used by other reputable environmental consulting firms practicing under similar conditions, at the same time, and in the same or similar locality. In preparing this report, MSG relied upon site background information provided by the DEQ State Project Manager who was responsible for determining geophysical survey boundaries and selecting soil boring locations. Geophysical and drilling services have inherent limitations associated with the equipment, subsurface conditions, and accessibility. MSG makes no representation or warranty regarding the accuracy or completeness of this information gathered through outside sources or subcontracted services. No warranty, guarantee, or certification of any kind, expressed or implied, at common law or created by statute, is extended, made, or intended by rendering these environmental consulting services or by furnishing this written report. Environmental conditions and regulations are subject to constant change and reinterpretation. One should not assume that any onsite conditions and/or regulatory statutes or rules will remain constant after MSG has completed the scope of work for this project. Furthermore, because the facts stated in these reports are subject to professional interpretation, differing conclusions could be reached by other environmental professionals.

Contaminants may be hidden in subsurface material, covered by pavement, vegetation, or other substances. Additionally, contamination may not be present in predictable locations. MSG has prepared a logical assessment program to reduce the client's risk of discovering unknown contamination. This risk may be reduced by more extensive exploration on the site. Even with additional exploration, it is not possible to completely eliminate the risk of discovering contamination on site. It cannot be assumed that samples collected and conditions observed are representative of an area that has not been sampled and/or tested.

Some environmental investigations may be undertaken to satisfy "due diligence", "all appropriate inquiry," or other regulatory requirements provided in federal, state, or local law. Although MSG strives to investigate a site in accordance with the scope of work as defined by written agreement, it cannot warrant that the work undertaken for this report will satisfy "due diligence", "all appropriate inquiry," or any other similar standard under any federal, state, or local law.

Due to changing environmental regulatory conditions and potential on-site activities after the completion of the limited site investigation, the client may rely upon the conclusions within this report for a period of six months from the report's issuance date.





TRIAGE GEOPHYSICAL FIELD REPORT

Client:	Michigan De	partment of Envi	ironmental Qua	ality (MDEQ/MDTMB)		MSG Personnel:	RD
Project:	5860 Ford Rd	– Creekside LLC	Site			MSG Job No.:	DTMB0138
Date:	4/22/14	Day:	Tuesday	Temperature:	40°F	a.m	p.m.
MSG CQ	A Personnel:	RD		Cloud Cover:	Partly	a.m	p.m.
Client Pe	rsonnel:	Terry Hiske - M	DEQ	Precipitation:	None	a.m	p.m.
MSG Ho	urs On-Site:	3.25 hrs					

Contractors Information		
Contractor:	No. Men and Type:	Equipment Type:
MSG		SIR 3000 GPR Unit/Fisher TW-6 Pipe
		and Utility Locater

Summary of Work Performed:

- 1. MSG arrived onsite @ 8:00 AM
- 2. Conducted Ground Penetrating Radar Survey and EM Survey of area selected by DEQ PM.
- 3. Prepared site sketch of survey area, prominent features, identifiable utility markings and anomalous locations.

Field Notes:

- There were no new MISS-DIG stakes, only old flags in the ROW of Plymouth Rd indicating the presence of a gas line.
- GPR revealed two (2) anomalies (disturbed soils), corresponding to suspect former UST and former building location.
- EM survey revealed four (4) minor point anomalies.
- GPR penetration depth approximately eight (8) feet bgs.
- Collected GPS data.

Supporting Docume	entation							
Photograph Taken	Yes	No	Samples Collected COC Attached	Yes	No X	Field Book Notes	Yes	No
Problem Identificat	tion and	Correc	tive Measures					
Resolved?	Ye	s	No 🗌 If no, why no	t:				



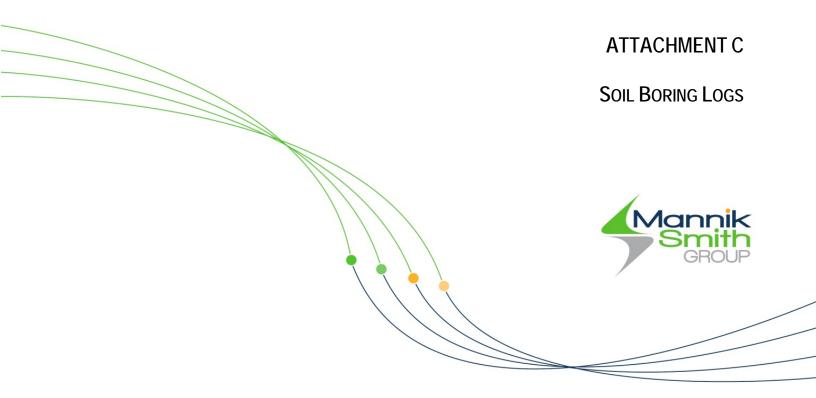
DAILY FIELD REPORT

Client: MDTMB		Date:		6116(14
Project: Sweet Creeks	de LLC.	Report I Day:		TNB6135 NOUDAY
Project No: DTMB 0138				
MSG Personnel: Sctt /400/R55	5 Project	Manager:		
MSG Hours On-Site: 8.5	Temp: Weathe Precip:	-S r: SUNNY	(AM) (AM) (AM)	<u>60</u> (PM) <u>90</u> (PM) (PM)
Work Performed or in Progress/Comments/Othe	r Observations:	2 50. H 51 O 53		÷
 MSG collected / > soil samples from MSG collected > saturated soil sat	from select borings. and / duplicate water samples ach soil boring location and sel enerated cuttings and hydrated	ns. s. ect landmarks.		
	CONTRACTORS INFOR			9111
Contractor:	Personnel & Type:		5 6	pe & Hours:
MSG	Geoprobe Operator	Ge	oprobe 6622	וטצ
MSG	Geologist			
Subcontractor:	Personnel & Type:	Eq	uipment Ty	pe & Hours:
				2
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Reviewed By:

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	Site Cre Address	eekside, LLC. 5860 Ford Road, Ann Arbor, Michig	gan	BORING/WELL:	SB-1
Mannik Smith GROUP TECHNICAL SKILL. CREATIVE SPIRIT.	County: Township: Town: 025	Washtenaw Superior S Range: 07E Sec. #: 57ft, 7in NE of W Telephone Pole	18	Date: Driller: Logged by Drill Method: Total Depth:	6/16/2014 RJS JCH Geoprobe – Direct Push 21 ft bgl

Well Const.	Annulus seal	Lithology	Lithologic Description	Depth bgl	S	Sample	Field Results PID and
				0	Туре	ID	visual/olfactory
N/A			Ground Surface – Topsoil	0 0.6			
	t		SAND, brown, trace Gravel, dry	0.6			
			- , , , - , - , - ,	1			0.0 ppm @ 1'
				2			
				3			0.0 ppm @ 3'
				4			
				5			0.0 ppm @ 5'
			Becomes fine-grained at 6 ft bgl	6			0.0 ppm @ 6'
				7			
			December maint at 40 feat hal	8 9			0.0 ppm @ 8'
			Becomes moist at 10 feet bgl	9 10			0.0 ppm @ 10'
				11			0.0 ppm @ 10 0.0 ppm @ 11'
				12			0.0 ppm @ 11
	SC			13			0.0 ppm @ 13'
			Becomes wet at 13.5 feet bgl	▼13.5			
	t		CLAY, brown, Sandy, moist	13.5			
				13.7			
	•		SAND, brown, fine-grained, trace	13.7			
			Gravel, moist	14			
				15			0.0 ppm @ 15'
				16			0.0 ppm @ 16'
				17			
			December wat at 10 ft hal	18			0.0 ppm @ 18'
			Becomes wet at 19 ft bgl CLAY, brown, Silty, moist	_ <u>▼</u> 19 19	Soil	SB-1	
			CLAT, DIOWII, SIILY, MOISI	19		(19')S	
			GRAVEL, grey, Sandy, dry	19.2			
				20			0.0 ppm @ 20'
				21			0.0 ppm @ 21'
	t	**********************	TD in GRAVEL at 21 ft				
Elev. Datu	m: NGVD		1	1		.at: 42° 19' 1	.6346" N
Grd. Elev:	N/A	T.O.C .: N/A			L	.ong: 83° 38'	52.9432" W
	ft bgl, 19ft b	ogl Well De	pth: N/A				gan GeoRef
Casing Ty						lorthing: 653	
Screen Ty	pe: N/A (Ins		ndwater for sampling)		E	asting: 227	5889.05
Annuius s	ealed by:	SC = Soil Cutt	ungs∠1-∪				Sheet # 1 of 1
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	Site	Creekside, LLC.	BORING/WELL:	SB-2
	Address	5860 Ford Road, Ann Arbor, Michigan		
Mannik	County:	Washtenaw	Date:	6/16/2014
Smith	Township	p: Superior	Driller:	RJS
GROUP	Town:	02S Range: 07E Sec. #: 18	Logged by	JCH
TECHNICAL SKILL.			Drill Method:	Geoprobe – Direct Push
CREATIVE SPIRIT.	Location	41ft, 1in SW of N Telephone Pole	Total Depth:	21 ft bgl

Well Const.	Annulus seal	Lithology	Lithologic Description	Depth bgl		Sample	Field Results PID and
					Туре	ID	visual/olfactory
N/A			Ground Surface – Topsoil	0 0.3			
			SAND, brown, fine-grained, Gravelly, dry	0.3 1			0.0 ppm @ 1'
				2 3 4			0.0 ppm @ 3'
				5 6			0.0 ppm @ 5' 0.0 ppm @ 6'
				7 8 9			0.0 ppm @ 8'
				10 11			0.0 ppm @ 10' 0.0 ppm @ 11'
	SC		Becomes wet at 13.8 ft bgl	12 13 <u>▼</u> 13.8			0.0 ppm @ 13'
			5	14			
			CLAY, brown, Silty, moist	14 14.2			
			SAND, brown, fine grained, trace Gravel, dry	14.2 15 16 17			0.0 ppm @ 15' 0.0 ppm @ 16'
			Becomes Clayey, moist at 18ft bgl	17 18 18.5	Soil	SB-2 (18')S	0.0 ppm @ 18'
			CLAY, brown, Silty, moist	18.5 18.7			
			GRAVEL, brown, Sandy	18.7 19			
				20 21			0.0 ppm @ 20' 0.0 ppm@ 21'
			TD in GRAVEL at 21 ft				
Elev. Datu						.at : 42° 19' 1	
Grd. Elev:		T.O.C.: NA				ong: 83° 38'	
SWL: 13.8		II Depth: N/A				Datum: Michi	
Casing Ty			a deve to a for a complicity of			lorthing: 653	
			ndwater for sampling)			asting: 227	0050.07
	ealed by:	SC = Soil Cut	ungs z I-0				Shoot # 1 of 1
							Sheet # 1 of 1

	Site Creekside, LLC. Address 5860 Ford Road, Ann Arbor,	ſichigan	BORING/WELL:	SB-3
Mannik Smith GROUP	County: Washtenaw Township: Superior Town: 02S Range: 07E Se		Date: Driller: Logged by Drill Method:	6/16/2014 RJS JCH Geoprobe – Direct Push
TECHNICAL SKILL. CREATIVE SPIRIT.	Location 62ft, 9in SE of N Telephone Pol		Total Depth:	21 ft bgl

Well Const.	Annulus seal	Lithology	Lithologic Description	Depth bgl		Sample	Field Results PID and
					Туре	ID	visual/olfactory
N/A			Ground Surface – Topsoil	0 0.3			
			SAND, brown, fine grained,	0.3			
			Gravelly, dry	1			0.0 ppm @ 1'
			,, - ,	2			
				3			0.0 ppm @ 3'
				3.5			
			CLAY, brown, Silty, dry	3.5			
				4			
				5			0.0 ppm @ 5'
				6			0.0 ppm @ 6'
				6.5			
			SAND, brown, fine grained,	6.5			
	CC		Gravelly, dry	7			
	SC			8			0.0 ppm @ 8'
			Becomes grey at 9.5ft bgl	9			
				10			0.0 ppm @ 10'
			Becomes brown at 11ft bgl	11			0.0 ppm @ 11'
				12			
				13			0.0 ppm @ 13'
				13.5			
			CLAY, brown, silty, moist	13.5			
			Sand seam from 14-14.2ft bgl	14			
				15			0.0 ppm @ 15'
			SAND, brown, fine grained, moist.	15			
				16			0.0 ppm @ 16'
				17	Soil	SB-3	0.0
			Becomes wat at 10th hal	18	301	(18.5')S	0.0 ppm @ 18'
			Becomes wet at 19ft bgl	<u>▼</u> 19	Water	SB-3	0.0 ppm @ 202
				20		(19'-21')W	0.0 ppm @ 20'
				21			0.0 ppm @ 21'
			TD in SAND at 21 ft				
Elev. Datu						.at: 42° 19' 1.	
Grd. Elev:		T.O.C.: N/A				ong: 83° 38'	52.2069" W
SWL: 19ft Casing Ty	bgi well	Depth: 21ft b	gi			Datum: Michie Northing: 653	
Screen Ty	pe N/A	ong Mill Scree	en (7-Slot)		F	asting: 2275	0044.29 6044 81
Annulus	ealed hv	SC = Soil Cut	tings 21-0			-usting. 2270	ו ט.דדטי
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	Site Creekside, LLC. Address 5860 Ford Road, Ann Arbor, Michigan	BORING/WELL:	SB-4
Mannik GROUP TECHNICAL SKILL. CREATIVE SPIRIT.	County: Washtenaw Township: Superior Town: 02S Range: 07E Sec. #: 18 Location 30ft, 7in SW of SB-3	Date: Driller: Logged by Drill Method: Total Depth:	6/16/2014 RJS JCH Geoprobe – Direct Push 21 ft bgl

Well Const.	Annulus seal	Lithology	Lithologic Description	Depth bgl	S	Sample	Field Results PID and
				-	Туре	ID	visual/olfactory
N/A			Ground Surface – Topsoil	0 0.3			
			SAND, brown, fine grained, Gravelly, dry	0.3 1			0.0 ppm @ 1'
				2 3 4			0.0 ppm @ 3'
				5 6			0.0 ppm @ 5' 0.0 ppm @ 6'
				7 8 9			0.0 ppm @ 8'
	SC			10 11			0.0 ppm @ 10' 0.0 ppm @ 11'
			Becomes wet at 13.8 ft bgl	12 13 <u>▼</u> 13.8			0.0 ppm @ 13'
	-		, , , , , , , , , , , , , , , , , , ,	14			
			CLAY, brown, Silty, moist	14 14.2			
			SAND, brown, trace Clay, dry	14.2 15 16			0.0 ppm @ 15' 0.0 ppm @ 16'
			Becomes Gravelly, moist at 19.5ft	17 18 19			0.0 ppm @ 18'
			bgl CLAY, brown, Silty, dry	19.7 19.7			
				20 21	Soil	SB-4 (20')S	0.0 ppm @ 20' 0.0 ppm @ 21'
			TD in CLAY at 21 ft			, <i>,</i> ,	
Elev. Datu	m: NGVD	I	1	1		.at: 42° 19' 1	
Grd. Elev:	N/A	T.O.C .: N/A					52.2277" W
SWL: 13.8		II Depth: N/A				Datum: Michi	
Casing Ty						lorthing: 653	
			ndwater for sampling)		E	asting: 227	5944.12
Annulus s	ealed by:	SC = Soil Cut	tings 21-0				
							Sheet # 1 of 1

	Site Creekside, LLC.			BORING/WELL:	SB-5
	Address 5860 Ford Road, Ann Arbor, Michigan			Doranto, TELL	
Mannik	County:	Washtenaw		Date:	6/16/2014
Smith	Township:	Superior		Driller:	RJS
GROUP	Town: 025	S Range: 07E Sec. #:	18	Logged by	JCH
TECHNICAL SKILL.				Drill Method:	Geoprobe – Direct Push
CREATIVE SPIRIT.	Location	Location 19ft SE of SB-4		Total Depth:	21 ft bgl

Well Const.	Annulus seal	Lithology	Lithologic Description	Depth bgl		ample	Field Results PID and
					Туре	ID	visual/olfactory
N/A	-		Ground Surface – Topsoil	0			
				0.4			
	1		SAND, grey, Gravelly, dry	0.4			0.0 ppm @ 1'
				1			
			Becomes fine to coarse grained	2			0.0 ppm @ 2'
			and Gravelly at 3ft bgl	3			
				4			
				5			0.0 ppm @ 5'
			Becomes less Gravelly at 6ft bgl	6			0.8 ppm @ 6'
	SC			7			
				8			0.0 ppm @ 8'
				9			
				10			0.0 ppm @ 10'
			Becomes grey/black, Gravelly	11			0.0 ppm @ 11'
			from 11-11.5ft bgl	12			
				13			1.0 ppm @ 13'
				14			
			CLAY, brown, Silty, dry	14			
				14.2			
			SAND, brown, Clayey, dry	14.2			
			Becomes gravelly at 15ft bgl	15			0.0 ppm @ 15'
				16			
				17			0.6 ppm @ 17'
			GRAVEL, grey/black, Sandy, dry	17			
				17.2			
			SAND, brown, Clayey, dry	17.2			
				18			
				19			
			CLAY, brown, Silty, dry	19			
				19.3			
			GRAVEL, grey, dry, petroleum-	19.3	Soil		
			like odor	20	Soil	SB-5 (21')S	0.0 ppm @ 20'
				21		DUP-1S	70.1 ppm @ 21'
			TD in GRAVEL at 21 ft				
Elev. Datu	m: NGVD	•		1	La	at: 42° 19' 1	.1029" N
Grd. Elev:	N/A	T.O.C .: N/A			L	ong : 83° 38'	52.0216" W
5WL: N/A		oth: N/A					gan GeoRef
Casing Ty						orthing: 653	
Screen Ty					E	asting: 2275	5959.76
Innulus s	ealed by:	SC = Soil Cut	tings 21-0				<u></u>
							Sheet # 1 of 1

	Site Creekside, LLC.			BORING/WELL:	SB-6
	Address 5860 Ford Road, Ann Arbor, Michigan			DOMINO, WELL.	
Mannik	County:	Washtenaw		Date:	6/16/2014
Smith	Township:	Superior		Driller:	RJS
GROUP	Town: 029	S Range: 07E Sec. #:	18	Logged by	JCH
TECHNICAL SKILL.				Drill Method:	Geoprobe – Direct Push
CREATIVE SPIRIT.	Location	Location 15ft, 7in SE of SB-5		Total Depth:	21 ft bgl

Well Const.	Annulus seal	Lithology	Lithologic Description	Depth bgl		ample	Field Results PID and
					Туре	ID	visual/olfactory
N/A			Ground Surface – Topsoil	0 0.3			
	-		SAND, brown, Gravelly, trace	0.3			
			Clay, dry	1			0.0 ppm @ 1'
				2			
				3			0.0 ppm @ 3'
				4			
				5			0.0 ppm @ 5'
				6			0.0 ppm @ 6'
				7			
				8			0.0 ppm @ 8'
				9			
				10			0.0 ppm @ 10'
				11			0.0 ppm @ 11'
				12			
			Becomes Clayey, moist at 13ft	13			0.0 ppm @ 13'
	-		bgl	14			
			CLAY, brown, Silty, dry	14 14.2			
	-		SAND, brown, Clayey, dry	14.2			
			SAND, DIOWII, Clayey, dry	14.2			0.0 ppm @ 15'
			Becomes fine-grained, less	16			0.0 ppm @ 16'
			Clayey at 16ft bgl	17			0.0 ppm @ 10
			Chayey at rolt by	18			0.0 ppm @ 18'
	SC			18.5			
			CLAY, brown, Silty, dry	18.5			
			, , - ,, - ,	19			
				19.5			
			GRAVEL, grey, Sandy, dry	19.5			
				20	Soil	SB-6	0.0 ppm @ 20'
				21		(21')S	7.1 ppm @ 21'
			TD in GRAVEL at 21 ft				
	im: NGVD					at: 42° 19' 1	
Grd. Elev:		T.O.C.: N/A					' 51.8183" W
SWL: N/A		oth: N/A				atum: Michi	gan GeoRef
Casing Ty						orthing: 65	3005.43
Screen Ty		SC = Soil Cut	tings 21-0		E	asting: 227	0970.11
AIIIIUIUS S	sealed by.		ungs 21-0				Sheet # 1 of 1
					I		

	Site Creekside, LLC. Address 5860 Ford Road, Ann Arbor, Michigan	BORING/WELL: SB-7	
Mannik Smith GROUP TECHNICAL SKILL.	County: Washtenaw Township: Superior Town: 02S Range: 07E Sec. #: 18	Date: 6/16/2014 Driller: RJS Logged by JCH Drill Method: Geoprobe – Direct Pus	sh
CREATIVE SPIRIT.	Location 74ft from Ford Road	Total Depth: 21 ft bgl	

Well Const.	Annulus seal	Lithology	Lithologic Description	Depth bgl		ample	Field Results PID and
					Туре	ID	visual/olfactory
N/A			Ground Surface – Topsoil	0 0.2			
			CLAY, brown, Silty, dry	0.2			0.0 ppm @ 1'
				2 3 4			0.0 ppm @ 3'
				5 6 7	Soil	SB-7 (5')S	3.2 ppm @ 5' 0.0 ppm @ 6'
			SAND, brown, dry	7 7.3			0.0 ppm @ 7'
			PEAT, moist	7.3 7.5			
			SAND, brown, dry	7.5 8			
	SC		CLAY, brown, Silty, dry	8 9 10			
			SAND, brown, trace Gravel, dry	10 11 12			0.0 ppm @ 10' 0.0 ppm @ 11'
			CLAY, brown, Silty, dry Becomes Sandy at 12.5ft bgl	12 12 13 14			0.0 ppm @ 13'
			Becomes moist at 15ft bgl	15 16 17 18			0.0 ppm @ 15' 0.0 ppm @ 16'
			SAND, brown, fine to coarse grained, wet	<u>▼</u> 18 19			0.0 ppm @ 18'
				20 21			0.0 ppm @ 20' 0.0 ppm @ 21'
			TD in SAND at 21 ft				
Elev. Datu						at: 42° 19' 1	
Grd. Elev:		T.O.C.: N/A					50.7188" W
SWL: 18ft		Depth: N/A					gan GeoRef
Casing Ty			a deve to a former and the share			orthing: 653	
			ndwater for sampling)		E	asting: 2276	5056.18
Annulus s	ealed by:	SC = Soil Cut	tings ∠1-0				Choot# 1 of 1
L							Sheet # 1 of 1

	Site Creekside, LLC.			BORING/WELL:	SB-8
	Address 5860 Ford Road, Ann Arbor, Michigan			Doranto, TELL	
Mannik	County:	Washtenaw		Date:	6/16/2014
Smith	Township:	Superior		Driller:	RJS
GROUP	Town: 025	S Range: 07E Sec. #:	18	Logged by	JCH
TECHNICAL SKILL.				Drill Method:	Geoprobe – Direct Push
CREATIVE SPIRIT.	Location	Location 85ft, 5in SE of SB-6		Total Depth:	21 ft bgl

Well Const.	Annulus seal	Lithology	Lithologic Description	Depth bgl		Sample	Field Results PID and
				-	Туре	ID	visual/olfactory
N/A			Ground Surface – Brown Topsoil	0			
1,1,1,1				0.2			
			CLAY, brown, Silty, trace Gravel,	0.2			
			dry	1			0.0 ppm @ 1'
			-	2			
				3			0.0 ppm @ 3'
				4			
				5 6			0.0 ppm @ 5'
				6			0.0 ppm @ 6'
				7			
				8			0.0 ppm @ 8'
				9			
	SC		Concrete fragments from 10-	10			0.0 ppm @ 10'
			10.5ft bgl	11			0.0 ppm @ 11'
			Becomes Sandy at 10.5ft bgl	12			
				13			0.0 ppm @ 13'
				14			
			Becomes moist at 15ft bgl	15			0.0 ppm @ 15'
				16			0.0 ppm @ 16'
			Becomes grey, Silty at 17ft bgl	17			
				18	Soil	SB-8	0.0 ppm @ 18'
				19		(18')S	
				19.5		+	
			SAND, brown, fine grained, wet	<u>▼</u> 19.5	Water	SB-8	0.0
				20	alo	(19'-21')	0.0 ppm @ 20'
				21		W	0.0 ppm @ 21'
			TD in SAND at 21 ft				
Elev. Datu						L at : 42° 19' 0.	
Grd. Elev:		T.O.C.: N/A				Long: 83° 38'	
SWL: 19.5	tt bgl We	II Depth: 21ft	bgl			Datum: Michig	
Casing Ty			(7. Plat)			Northing: 652	
		ong Mill Scree SC = Soil Cut			I	Easting: 2276	0034.09
Annulus s	ealed by:	50 = 5011 Cut	unys z 1-0				Shoot # 1 of 1
							Sheet # 1 of 1

	Site	Creekside, LLC.	BORING/WELL:	SB-9
	Address 5860 Ford Road, Ann Arbor, Michigan		DORINO/WEEE.	
Mannik	County:	Washtenaw	Date:	6/16/2014
Smith	Township:	Superior	Driller:	RJS
GROUP	Town:	02S Range: 07E Sec. #: 18	Logged by	JCH
TECHNICAL SKILL.			Drill Method:	Geoprobe – Direct Push
CREATIVE SPIRIT.	Location	49ft, 6in SE of SB-10	Total Depth:	21 ft bgl

Well Const.	Annulus seal	Lithology	Lithologic Description			Sample	Field Results PID and	
				bgl	Туре	ID	visual/olfactory	
N/A			Ground Surface – Topsoil	0 0.2				
			SAND, brown, fine grained,	0.2				
			Gravelly, dry	1			0.0 ppm @ 1'	
				2				
				3			0.0 ppm @ 3'	
				4				
				5			0.0 ppm @ 5'	
				6			0.0 ppm @ 6'	
	SC			7				
				8			0.0 ppm @ 8'	
			Becomes grey, less Gravelly at	9				
			9ft bgl	10			0.0 ppm @ 10'	
				11			0.0 ppm @ 11'	
				12				
				13			0.0 mmm @ 10'	
	_		CLAY, brown, Silty, dry	13 14			0.0 ppm @ 13'	
			SAND, grey, fine grained, dry	14				
	_		SAND, grey, line grained, dry	14			7.7 ppm @ 15'	
				16			0.0 ppm @ 16'	
				17			110.4 ppm @ 17'	
				18			110.4 ppin @ 17	
		uuu	SILT, grey, Gravelly, petroleum-	18			205.3 ppm @ 18'	
	-	\cdots	like odor, moist	19				
			CLAY, brown, Silty, petroleum-	19				
			like odor, moist	19.5				
			GRAVEL, grey, petroleum-like	<u>▼</u> 19.5	Soil	SB-9 (21')S		
			odor, wet	20	501	30-3 (21)3	41.7 ppm @ 20'	
				21	Water	SB-9 (21') W	273.6 ppm @ 21'	
					Water	DUP-1W		
			TD in GRAVEL at 21 ft		valei	201-100		
Elev Dati	im: NGVD			I	 :	l at: 42° 19' 0.55	L 31" N	
Grd. Elev:		T.O.C .: N/A				ong: 83° 38' 53		
SWL: 19.5		Il Depth: 21ft	bgl		D	atum: Michiga	n GeoRef	
Casing Ty	Casing Type N/A Northing: 652949.65							
Screen Ty	pe: 2-foot le	ong Mill Scree	n (7-Slot)		E	asting: 227586	52	
Annulus s	sealed by:	SC = Soil Cutt	ings 21-0				0	
							Sheet # 1 of 1	

	Site Creekside, LLC.	BORING/WELL:	SB-10
	Address 5860 Ford Road, Ann Arbor, Michigan		
Mannik	County: Washtenaw	Date:	6/16/2014
Smith	Township: Superior	Driller:	RJS
GROUP	Town: 02S Range: 07E Sec. #: 18	Logged by	JCH
TECHNICAL SKILL.		Drill Method:	Geoprobe – Direct Push
CREATIVE SPIRIT.	Location 56ft, 5in SE of W Telephone Pole	Total Depth:	21 ft bgl

Well Const.	Annulus seal	Lithology	Lithologic Description	Depth bgl	s	ample	Field Results PID and
				0	Туре	ID	visual/olfactory
N/A			Ground Surface – Topsoil	0			
			·	0.3			
			SAND, brown, trace Gravel, dry	0.3			
				1			3.5 ppm @ 1'
				2			
				3			0.6 ppm @ 3'
				4			
							0.0 ppm @ 5'
				6			0.0 ppm @ 6'
				5 6 7			
				8			0.0 ppm @ 8'
				9			
	SC			10			0.0 ppm @ 10'
				11			0.0 ppm @ 11'
			Becomes fine grained at 12.5ft	12			0.0 FF C
			bgl	13			0.0 ppm @ 13'
			~ 5.	13.5			0.0 PP C . 0
-	4		CLAY, brown, Silty, dry	13.5			
				14			
				15			
	-		SAND, brown, trace-little Clay,	15			0.0 ppm @ 15'
			dry	16			0.0 ppm @ 16'
			ary	17			
				18			0.0 ppm @ 18'
				19			
	-			19			
			GRAVEL, grey, moist	20			0.0 ppm @ 20'
			, g.o,,o.o.	21	Soil	SB-10	131.5 ppm @ 21'
			TD in GRAVEL at 21 ft			(21')S	
			ID III GRAVEL al 21 IL		<u> </u>		C140" N
Grd. Elev:	Im: NGVD	T.O.C .: N/A				at: 42° 19' 0	<u>.6119" N</u> ' 53.8842" W
SWL: N/A							gan GeoRef
Casing Ty						orthing: 652	
Screen Ty						asting: 227	
		SC = Soil Cut	tings 21-0				0021100
	Joalou Ny.						Sheet # 1 of 1
							0000

Patterns:

Sand, grey	Sand, brown	SC Soil collapse	Base Aggregate	
Silt, grey	Silt, brown	B	Top Soil	
Clay, grey	Clay, brown	C	Gravel	
Bedrock, limestone	Bedrock, sandstone	Asphalt, peat, shale		

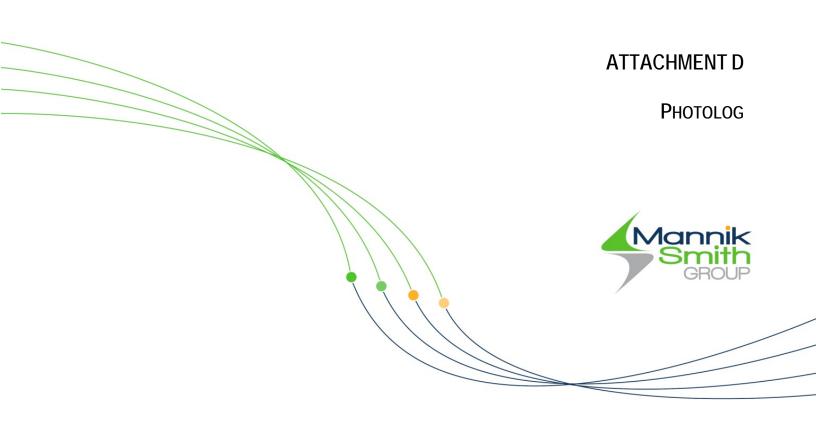




Photo 1: Site looking east. Photo taken by R. Danigier 4/22/2014.



Photo 3: GPR Anomaly (suspect former UST cavity). Photo taken by R. Danigier 4/22/2014.



Photo 5: Site looking souteast. Photo taken by J. Hale 6/16/2014



Photo 2: GPR anomaly (suspect gas utility). Photo taken by R. Danigier 4/22/2014.



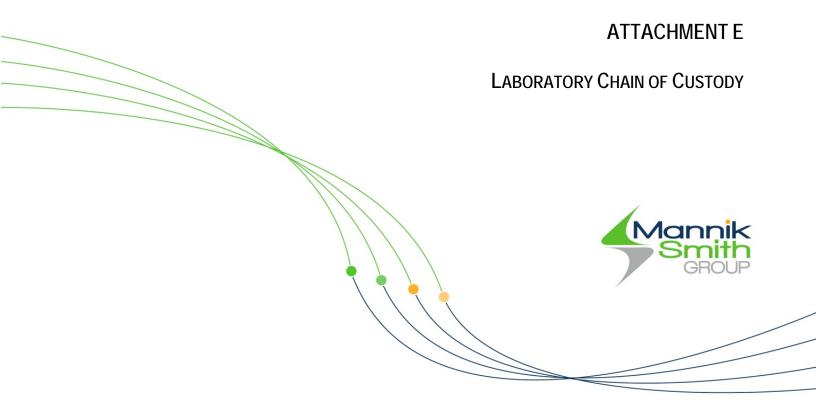
Photo 4: Advancing soil boring. Photo taken by J. Hale 6/16/2014.



Photo 6: Preparing the drill rig. Photo taken by J. Hale 6/16/2014



2365 Haggerty Road South, Canton, Michigan 48188 Tel: 734.397.3100 Fax: 734.397.3131 SWET-Creekside, LLC Photo Page 1 MSG Project DTMB0138



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY ENVIRONMENTAL LABORATORY VER DEOUEST SHE

Goldenrod Page of

LABOR	DEK #			ANALISISI	LEQUEST SHEL		TRIX=SEDIME	ENT/SOIL/SOLIDS
SITE CC 01099999	DDE NUMBER 9	SITE NAME SWET - Creel						ACCEPT HT CODES? YES / NO If yes, which parameters?
DIVISIC	DIVISION DISTRICT/OFFICE			CT MANAGER		E-MAIL ADDRESS		PHONE
RRD		Gaylord Office	Randy	Rothe		rother@michigan.gov		9897053416
PRIMA	RY CONTACT PER	SON CONTRACT	FIRM NAME (if	applicable)	PHONE	AY: 13 IND		PCA: 30822
	Brent Ritch	iie			(734) 397-3100	PROJECT: 55		WA 19760
		OVERFLOW LA	B (Required)			E-MAIL ADDRESSES	TO SEND ADDITIONA	AL REPORTS TO:
IST CHO	DICE: ALS	2ND CHOICE:		8	¥.	1.) Hisk	et@michigan.gov	
COLLE	CTED BY: JU	f		PHONE:	(734) 397-3100	2.) Wbo	olt@manniksmithgr	roup.com
		***			ION REQUIR	ED ****		
			SE	EE BACK O				
142 1474		FIELD ID (Sample Identification)			E COLLECTED		RDINATES	COMMENT
LA	B USE ONLY			DATE MM/DD/YY	TIME MILITARY	LATITUDE	LONGITUDE	COMMENT
1	AC	5B-1 (19')5	a .	6/16/14	0855			PFP=0.0
2	AC	5B-2(18)	S	6/16/14	0920			PID=0.0
3	AC	SB-3(18.5')5	5	6/16/14	0950			PID=0.0
4	AC	5B-4 (20')S		6/16/4	1025			PID =0.0
5	AC	5B-5(Z1)S		6/16/14	1100			PID=70.1
6	AC	DUP-15		6116114				
7	AC	SB-6(21)S		6/16/14	1140			PID = 7.
8	AC	5B-7(5')5	2	6/16/14	1210			PZD=3.2
9	AC	3B-8(18')S	2	6/16/14	1240		10	P70=0.0
10	AC	SB-9(Z1)S		611614	1310			P40=213.6

1 2 3 4 5 6 7 8 9 10 ORGANIC SPECIAL REQUESTS MICH TEN METALS VOA VOLATILES *(MeOH/8260) 1 2 3 4 5 6 7 8 9 10 T 2 3 4 5 6 7 8 9 10 1234567891 (As, Ba, Cd, Cr, Cu, Pb, Hg, Se, Ag, Zn) Library Search - Volatiles VOC - Full List Library Search - Semi-Vols 1 2 3 4 5 6 7 8 9 10 BTEX/MTBE/TMB only 1 2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 1 **OP MEMO 2 Metals** 1 2 3 4 5 6 7 8 9 10 FingerPrint Chlorinated only DRO/ORO (8015) 1 2 3 4 5 6 7 8 9 1 (Sb,As,Ba,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Hg,Mo,Ni,Se,Ag,Tl,V,Zn) 1 2 3 4 5 6 7 8 9 10 GRO 1 2 3 4 5 6 7 8 9 10 Low Level PNA 1,4 Dioxane 1 2 3 4 5 6 7 8 9 10 $\downarrow Circle Requested Metal and Corresponding Sample No. <math display="inline">\downarrow$ os PESTICIDES/PCBS (8081/8082) 1 2 3 4 5 6 7 8 9 10 GENERAL CHEMISTRY Al Sb As Ba Be Cd Cr Pesticides & PCBs 1 2 3 4 5 6 7 8 9 10 Co Cu Fe Pb Li Mn Hg GS Pesticides only 1 2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 COD 1234567891 Mo Ni Se Ag Sr Tl Ti Specialty Pesticides TOC 1234567891 V Zn 1 2 3 4 5 6 7 8 9 10 Toxaphene 1 2 3 4 5 6 7 8 9 10 1234567891 Ca Mg K Na KJEL N. Tot. P 12345678910 PCBs only **BASE NEUTRAL & ACIDS (8270)** Total CN 1 2 3 4 5 6 7 8 9 10 BNA Low Level Mercury 1 2 3 4 5 6 7 8 9 10 BNAs 1 2 3 4 5 6 7 8 9 10 Available Cyanide 1234567891 1 2 3 4 5 6 7 8 9 10 PNAs only 1 2 3 4 5 6 7 8 9 10 % Total Solids 1 2 3 4 5 6 7 8 9 10 BNs only

1 2 3 4 5 6 7 8 9 10

ORGANIC

	RELEASED BY / ORGANIZATION	RECEIVED BY / ORGANIZATION	DATE	TIME
ustody	Print Name & Jarrett Hale MSG Organization Jarrett Hale MSG Signature	Print Name & MSG Fridge Organization MSG Fridge Signature	6/16/14	u:30
Chain-of-Cust	Print Name & MSh Fridse Organization MSh Fridse Signature	Print Name & Organization Signature	9(1)14	15a
Ch	Print Name & Organization	Print Name & Organization		. e.
	Signature	Signature	n	

Other

INORGANIC

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY ENVIRONMENTAL LABORATORY ANALYSIS REQUEST SHEET

Page 2 of 2

LAB ORDER #				ANALYSIS REQUEST SHEET				
						MA	TRIX=SEDIMI	ENT/SOIL/SOLIDS
SITE C 0109999	ODE NUMBER 99		NAME Creekside, LLC					ACCEPT HT CODES? YES / NO If yes, which parameters?
DIVISI	ON	DISTRICT/OFFICE	MDEQ PROJE	CT MANAGER		E-MAIL ADDRESS		PHONE
RRD		Gaylord Office	Randy	Rothe		rother@michigan.gov		9897053416
PRIMA	RY CONTACT PEI	RSON CONTR	ACT FIRM NAME (if	applicable)	PHONE	AY: 13 IND	EX: 44213	PCA: 30822
	Brent Ritc	hie			(734) 397-3100	PROJECT: 55		00
	QICE: ALS		V LAB (Required) OICE: Test America	PHONE:	(734) 397-3100	1.) Hisi	TO SEND ADDITIONA	
	20	H					on@manniksmitigi	oup.com
			**** SAFETY I			ED ****		
			SI	EE BACK C				
TA	B USE ONLY	FIELD ID (Sample Identification)		DATE	LE COLLECTED	LATITUDE	RDINATES	COMMENT
	D USE ONE			MM/DD/YY	MILITARY	LAIITODE	LONGTIODE	COMMENT
1	AC	513-10(21)	5	6116114	1340			PID=131.5
2	AC	Trip						
3	AC							
4	AC							
5	AC							
6	AC							
7	AC				-	The last the second second		
8	AC							
9	AC							
10	AC							

ORGA	NIC			INORGANIC			
VOA VOLATILES	*(MeOH/8260)	ORGANIC SPECI	AL REQUESTS	MICH TEN METALS	1 2 3 4 5 6 7 8 9 10		
VOC - Full List	1 2 3 4 5 6 7 8 9 10	Library Search - Volatiles	1234567891	(As, Ba, Cd, Cr, Cu, Pb, Hg, Se, Ag, Zn)			
BTEX/MTBE/TMB only	12345678910	Library Search - Semi-Vols	1 2 3 4 5 6 7 8 9 10				
Chlorinated only	1 2 3 4 5 6 7 8 9 10	FingerPrint	1234567891	OP MEMO 2 Metals	1 2 3 4 5 6 7 8 9 10		
GRO	1 2 3 4 5 6 7 8 9 10	DRO/ORO (8015)	1234567891	(Sb,As,Ba,Be,Cd,Cr,Co,Cu,Fe,P	b,Mn,Hg,Mo,Ni,Se,Ag,Tl,V,Zn)		
1,4 Dioxane	1 2 3 4 5 6 7 8 9 10	Low Level PNA	1 2 3 4 5 6 7 8 9 10				
OS PESTICIDES/PCBS (8081/8082)				$\downarrow Circle Requested Metal and Corresponding Sample No. \downarrow$			
Pesticides & PCBs	1 2 3 4 5 6 7 8 9 10	GENERAL CHEMISTRY		Al Sb As Ba Be Cd Cr	1 2 3 4 5 6 7 8 9 10		
Pesticides only	1 2 3 4 5 6 7 8 9 10	GS		Co Cu Fe Pb Li Mn Hg			
Specialty Pesticides	1 2 3 4 5 6 7 8 9 10	COD	1234567891	Mo Ni Se Ag Sr Tl Ti			
Toxaphene	1 2 3 4 5 6 7 8 9 10	TOC	1234567891	V Zn			
PCBs only	1 2 3 4 5 6 7 8 9 10	KJEL N, Tot. P	1234567891	Ca Mg K Na	1 2 3 4 5 6 7 8 9 10		
BNA BASE NEUTR	AL & ACIDS (8270)	Total CN	1 2 3 4 5 6 7 8 9 10				
BNAs	1 2 3 4 5 6 7 8 9 10	Available Cyanide	1234567891	Low Level Mercury	1 2 3 4 5 6 7 8 9 10		
PNAs only	1 2 3 4 5 6 7 8 9 10						
BNs only	1 2 3 4 5 6 7 8 9 10			% Total Solids	1 2 3 4 5 6 7 8 9 10		

	RELEASED BY / ORGANIZATION	RECEIVED BY / ORGANIZATION	DATE	TIME
	Print Name & Jasy CHT Helc	Print Name & MSG Fridge	111.114	11:30
stod	Signature Art Win	Signature V	6(1011	4
of-Cus	Print Name & MSh Fride	Print Name & Organization	alcalin	150
hain-o	Signature	Signature	90119	17
c	Print Name &	Print Name &		
	Organization	Organization		
	Signature	Signature		

Other _____ 1 2 3 4 5 6 7 8 9 10

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY ENVIRONMENTAL LABORATORY ANALYSIS REQUEST SHEET

W	hite 1/
Page 🧕	of

LAB WOF	RK ORDER #			ANALYSIS RJ	EQUEST SHEET			MATRIX=WA	ATER
SITE COL 01099999	DE NUMBER)	SITE NAME SWET - Cre	ekside, LLC	4				ACCEPT HT If yes which paramete	CODES? Y / N
DIVISION RRD	1	DISTRICT/OFFICE Gaylord Office	MDEO PROJEC Randy	T MANAGER Rothe		-MAIL ADDRES		PHONE 9897	7053416
PRIMARY	Y CONTACT PER	SON CONTRACT	TRM NAME (if a	pplicable)	PHONE	AY: 14 IN PROJECT: 5	DEX: 44213 550518 PH:	PCA: 30822 00	
1ST CHOIC	E: ALS	OVERFLOW LA 2ND CHOICE:	B (Required) Test America			E-MAIL ADDRESS	sket@michigan.gov	AL REPORTS TO:	
COLLEC	TED BY:	H		PHONE: (754) 39	7-3100	1	bolt@manniksmithgro	oup.com	
		*		Y INFORMA SEE BACK	TION REQUIE	XED ****			
					COLLECTED	GPS CC	ORDINATES	1	
LAB	USE ONLY	FIELD ID (Sample Ident	ification)	DATE MM/DD/YY	TIME MILITARY	LATITUDE	LONGITUDE	COM	IMENTS
1	AC	513-3(19-21)	in	6/16/14	1420				- I
2	AC	Trip Blank		5/13/14					
3	AC	SB-g(Zi) L		61/6/14	1400				A
4	AC	5B-8 (19-21) 6)	6116/14	1440				
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Chlorina GRO 1,4 Diox METH	ITBE/TMB only ted only ane METHANE, ET) (Modifi	2 3 4 3 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 1 4 5 6 7 8 9 10 1 4 5 6 7 8 9 10 1 4 5 6 7 8 9 10 1 4 5 6 7 8 9 10 1 4 5 6 7 8 9 10 1 4 5 6 7 8 9 10 1 4 5 6 7 8 9 10 1 4 5 6 7 8 9 10 1 4 5 6 7 8 9 10 1 4 5 6 7 8 9 10 1 4 5 6 7 8 9 10 1 4 5 6 7 8 9 10 HANE, ETHENE ed 8015)	Residue SS Residue TD Turbidity CA Chlorophyll GA COD TOC	NO ₂ +NO ₃ , NO ₂) IS	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	10 M 10 (10 O 10 (10 1 10 2	IICH TEN METALS (As, Ba, Cd, Cr, Cu, Pb P MEMO 2 METALS (Sb,As,Ba,Be,Cd,Cr,Cu,C LCircle Metal and C Al Sb As Ba Be B (Co Cu Fe Pb Li Mn Ni Ca As ST TE N	, Hg, Se, Ag, Zn) S 1 2 to,Fe,Pb,Mn,Hg,Mo, Corresponding Sa Cd Cr 1 2 Hg Mo	
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