# Wisconsin Department of Natural Resources



Portage Canal

October 2013

Sediment Sampling Logs

### SAMPLE COLLECTION LEGEND

Project Title:	:		Sample Matrix:						
Vertical Datu	ım		Sampling Method:						
Staff Gauge	Reading (ft)	1.68	Gauge Re	eading Time:					
Water Elevation (calc)		780.56		Logged by:					
Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)			
		1.5	5.0			3.5			
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)			
Donth	(in the c)		Deceri			Skatak			
Depth	(inches)		Descri	ption		Sketch			
Concentration >PEC <pec,>MEC <mec,>TEC <tec< td=""><td>Color Red Orange Yellow Green</td><td>Chemical Depths, con color coded</td><td>Sample centration</td><td>Sediment Wa</td><td>ter Interface</td><td>780 779 777 777 A C S C S C S C S C S C S C S C S C C S C C S C C S C C S C C S C C S C C C S C C S C C S C C C S C C S C C C S C C S C C C S C C C S C C C C C S C C C C C C C C</td></tec<></mec,></pec,>	Color Red Orange Yellow Green	Chemical Depths, con color coded	Sample centration	Sediment Wa	ter Interface	780 779 777 777 A C S C S C S C S C S C S C S C S C C S C C S C C S C C S C C S C C S C C C S C C S C C S C C C S C C S C C C S C C S C C C S C C C S C C C C C S C C C C C C C C			
Additional No	otes:			/	/				
Sample IDs f	or analysis:	(0-6)	(6-18)	(18-23)					
Sample IDs o	on hold:	(15-27) <							
Picture #s ar	nd SWIMS ID:	Minim	num potential e	elevation of co	ntamination	> EOC			
Comments:						777.1 ft			

Project Title Vertical Datu Staff Gauge Water Elevat	um Reading (ft)	Portage Canal NAVD88 1.86 780.74	Sample Matrix: <u>Sediment</u> Sampling Method: <u>MMGK, 3-inch inner dia.</u> Gauge Reading Time: <u>12:15</u> Logged by: STI Description, AH notes			
Date Collected	Time Collected (military)	Water Depth (ft) 2.0	CoreSedimentPolingPenetrationRecoveredPercentDepth(ft)(ft)Recovery(ft)			Poling Depth
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)
PC13-01 Depth	43.55886077 (inches)	-89.43634881	1 Descri	LEFT	10/15/2013	13:53 <b>Sketch</b>

PC13-01	43.55886077	-89.43634881	1	LEFT	10/15/2013		13:53	
Depth (	(inches)		Descri	ption			Sketch	
0	- 8	Silty Sand (SI snail shells, and		loose, trace cl	lay, organics,	781		
8 -	8 - 15 Sandy Organic Silt (OH); brown, wet, very soft, fine grained sand							
15 - 27 <b>Poorly Graded Sand (SP)</b> ; light gray, wet, medium dense, medium to coarse grained, trace to no fines						779	Ĵ Ĵ sm	
27 - 36 Silty Sand (SM); light brown, moist, few to little clay, trace gravel						778		
36	- 43	Poorly Graded dense, medium	777	ОН				
						776	SP	
						775	SM	
						774	SP	
						773		
						772		
Additional No	otes:	Hg	Hg	Hg				
Sample IDs f	or analysis:	(0-6)	(6-15)	(27-36)				

Sample IDs on hold:

Picture #s and SWIMS ID:	)71-073, 10041200 - Portage Can	al PC13-01-MMGK	EOC

(15-26)

Comments:

776.5 ft

Project Title	:	Portage Canal	Sample Matrix:         Sediment						
Vertical Datu	ım	NAVD88	Samp	Sampling Method: MMGK, 3-inch inner dia.					
Staff Gauge Reading (ft)		1.86	Gauge Re	eading Time:	12:15				
Water Elevat	tion (calc)	780.74		Logged by:	STI Descriptio	on, AH notes			
Date Collected	Time Collected (military)	Water Depth (ft)	CoreSedimentPenetrationRecoveredPercent(ft)(ft)Recovery			Poling Depth (ft)			
10/15/2013	12:06	3.1	5.0	4.0	80%	4.6			
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)			
PC13-02	43.55884529	-89.43630642	1	Center	10/15/2013	13:38			
Depth	Depth (inches)		Description						
0	- 13	Organic Silt ( fine sand, leave		et, very soft, t	race to few	781			
13	- 18	Silty Sand (SN layer	780						
18	- 46	<b>Poorly Graded Sand (SP)</b> ; light gray, moist, medium dense, medium to fine grained, trace to no fines, stratified clay from 28" to 30"				779			
						777 OH 776			
						775 SM			

				774 -	SP		
				//2			l
Additional Notes:	Hg	Hg					
Sample IDs for analysis:	(0-12)	(12-18)					
Sample IDs on hold:	(18-30)						
Picture #s and SWIMS ID:	068-070, 10041	201 - Portage	e Canal PC13-02-MMGK		EOC		
Comments:					775.6	ft	_

Project Title		Portage Canal						
Vertical Datum		NAVD88		ling Method:		inner	dia.	
Staff Gauge Reading (ft)		1.86	Gauge Re	eading Time:	12:15			
Water Eleva	tion (calc)	780.74	<u>.</u>	Logged by:	STI Descriptio	on, AH	notes	
Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery		Poling Depth (ft)	
10/15/2013	12:24	2.2	5.0	4.3	86%		4.6	
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed		Time rocessed Military)	
PC13-03	43.55880386	-89.43624130	1	Right	10/15/2013		13:19	
Depth (inches)		Description					Sketch	
0	- 9	Sandy Organic Silt (OH); black, wet, very soft, fine grained sand, wood debris, detritus						
9	- 16	Silty Sand (SN loose, medium	· · · · · · · · · · · · · · · · · · ·		brown, wet,	780		
16	- 52	Poorly Graded dense, medium				779		
						778	OH ML to SM	
						776		•

Sample IDs for analysis:

Picture #s and SWIMS ID: 065-067, 10041203 - Portage Canal PC13-03-MMGK

Comments:

Additional Notes:

EOC

775

774

773

SP

Hg

(6-16)

Hg

(0-6)

Project Title:		Portage Canal	Sample Matrix: Sediment				
Vertical Datum		NAVD88	Sampling Method: MMGK, 3-inch inner dia.				
Staff Gauge Reading (ft)		1.82	Gauge Reading Time: <u>14:24</u>				
Water Elevation (calc)		780.70		Logged by:	STI Descriptio	n, AH notes	
	Time		Core	Sediment		Poling	

Date Collected	Collected (military)	Water Depth (ft)	Penetration (ft)	Recovered (ft)	Percent Recovery	Depth (ft)		
10/15/2013	14:52	2.2	5.0	4.0	80%	5.1		
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)		
PC13-04	43.55738815	-89.43746983	2	Left	10/15/2013	17:03		
Depth	(inches)		Descri	ption		Sketch		
0	- 6	Silty Sand (SM duckweed, detr		moist, loose,	trace clay,	781		
6	6 - 21 Sandy Organic Silt (OH); dark brown, moist, soft, fine grained sand					780		
21	21 - 26 Sandy Silt (ML) to Silty Sand (SM); brown, moist, low plasticity, fine graind sand, a transition layer					779		
26	- 37	Poorly Gradeo grained	778 SM					
						777 ОН		
						776		
						775		
						774		
						773		
Additional N	otes:	Hg	Hg					
Sample IDs f	for analysis:	(0-6)	(21-26)					

Sample IDs on hold: (6-21), (26-37)

Comments:

Picture #s and SWIMS ID: 074-077, 10041204 - Portage Canal PC13-04-MMGK Lots of water and duckweed at top. Transect not composited EOC because of the high sand content at this location. 775.3 ft

Project Title:		Portage Canal	ortage Canal Sample Matrix: Sediment					
Vertical Datu	um	NAVD88	NAVD88 Sampling Method: MMGK, 3-inch inner dia.					
Staff Gauge Reading (ft)		1.82	1.82 Gauge Reading Time: 14:24					
Water Elevat	tion (calc)	780.70	-	Logged by:	STI Descriptio	on, CRA notes		
Date Collected	Time Collected (military)	Water Depth (ft)	h Penetration Recovered Percent D			Poling Depth (ft)		
10/15/2013	14:35	2.9	5.0	4.1	82%	5.3		
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)		
PC13-05	43.55736508	-89.43741459	2	Center	10/16/2013	9:30		
Depth	Depth (inches)		Descri	ption		Sketch		
0 - 6		Sandy Organic duckweed and	781					
6	- 18	Silty Sand (Signation of the second s		, medium den	se, fine	780		
18	- 38	Same as above wood	; interbedded	ayers of clay,	pieces of	779		
38	- 46	Poorly Graded dense, medium	778					
						777 OH 776 775 SM		
						774		

Comments:

Additional Notes:

Sample IDs on hold:

Sample IDs for analysis:

ft

SP

EOC 775.4

773

TOC, Ps

(6-36)

Lots of water and duckweed in (0-6).

Hg

(6-18)

Hg

(0-6)

Picture #s and SWIMS ID: 078-080, 10041205 - Portage Canal PC13-05-MMGK

(18-30)

Project Title	Project Title:		e Canal Sample Matrix: Sediment					
Vertical Datu	um	NAVD88	Samp	Sampling Method: MMGK, 3-inch inner dia.				
Staff Gauge	Reading (ft)	1.82	Gauge Re	eading Time:	14:24			
Water Elevat	tion (calc)	780.70		Logged by:	STI Descriptio	on, CRA notes		
Date Collected	Time Collected (military)	Water Depth (ft)	CoreSedimentPenetrationRecoveredPercent(ft)(ft)Recovery			Poling Depth (ft)		
10/15/2013	14:18	2.1	5.0	4.0	80%	4.8		
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)		
PC13-06	43.55733575	-89.43730380	2	Right	10/16/2013	9:45		
Depth	(inches)		Sketch					
0	- 6	Sandy Organic duckweed and	781					
6	- 12	Silty Sand (SM trace fines, twig	780					
12	- 24	Sandy Organion nonplastic, inte	779					
24	- 44	<b>Poorly Graded Sand (SP)</b> ; gray, moist, medium dense, medium to fine grained, trace to few clay, native sand				778 ОН		
						777 SM		
						776 ОН		

			773
Additional Notes:	Hg	Нд	
Sample IDs for analysis:	(0-6)	(12-24)	
Sample IDs on hold:	(6-12), (24-44)		
Picture #s and SWIMS ID:	081-083, 100412	06 - Portage Canal PC13-06-MMGK	EOC

Comments:

775.6 ft

775

774

SP

Project Title:	:	Portage Canal	Sa	mple Matrix:	Sediment			
Vertical Datum		NAVD88	Sampling Method: MMGK, 3-inch inner dia.					
Staff Gauge	Reading (ft)	1.77	Gauge Re	eading Time:	16:52			
Water Elevat	tion (calc)	780.65		Logged by:	STI Descriptio	n, CRA notes		
Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)		
10/15/2013	16:12	1.7	5.0	4.1	82%	5.0		
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)		
PC13-07	43.55573703	-89.43850864	3	Left	10/16/2013	10:00		
Depth	(inches)		Descri	ption		Sketch		
6	- 6 - 19 - 48	fine grained sar Same as above Poorly Gradeo	Inic Silt (OH); black, wet, very soft, trace       781         sand, detritus, sheen       780         ove; dark brown, moist, soft, less organics       780         ded Sand (SP); light gray to tan, moist, se, medium to fine grained, trace fines, sand 36"       779					
						777 776 775 774 773		
Additional No	otes:	Hg, MeHg, pH	Hg, MeHg	. TOC. pH		L		
Sample IDs 1		(0-6)	(6-					
Sample IDs of	-	(19-36)						

Mixed (6-19) with plastic spoon.

Project Title:	:	Portage Canal	Sa	mple Matrix:	Sediment	
Vertical Datu	ım	NAVD88	Samp	ling Method:	MMGK, 3-inch	inner dia.
Staff Gauge	Reading (ft)	1.77	Gauge Reading Time: <u>16:52</u>			
Water Elevat	tion (calc)	780.65		Logged by:	STI Descriptio	on, CRA notes
Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)
10/15/2013	15:51	2.5	5.0	4.5	90%	4.5
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)
PC13-08	43.55571668	-89.43844625	3	Center	10/16/2013	10:20
Depth	(inches)		Descri	ption		Sketch
0	- 11	Sandy Organio grained sand	c Silt (OH); b	black, wet, very	y soft, fine	781
11	- 38	<b>Poorly Graded</b> medium dense, thick organic la	medium grain			780
38	- 51	Same as above increases to fev	-	sand, fines con	itent	779
						778
						777 OH
						776
						775 SP
						774
						773
Additional No	otes:	Hg, Pb, Cd, Ad	g, MeHg, TOC,	Ps, pH, TCLP		

Sample IDs for analysis:

(0-11)

(11-23)

Sample IDs on hold:

Comments:

Picture #s and SWIMS ID: 087-091, 10041209 - Portage Canal PC13-08-MMGK EOC

776.1

Project Title	:	Portage Canal	Sample Matrix: Sediment			
Vertical Datu	um	NAVD88	Samp	ling Method:	MMGK, 3-inch	inner dia.
Staff Gauge	Reading (ft)	1.82	Gauge R	eading Time:	14:24	
Water Elevat	tion (calc)	780.70	Logged by: STI Description, CRA notes			n, CRA notes
Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)
10/15/2013	15:22	3.2	5.0	4.0	80%	4.8
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)

PC13-09	43.55568289	-89.43835670	3	Right	10/16/2013		10:45
Depth	(inches)		Descri	ption			Sketch
0	- 4	Sandy Organio sand, duckweed		lack, soft, fine	grained	781	
4	- 9	Silty Sand (SN	<b>/)</b> ; dark browr	ı, loose, detritu	JS	780	
9	- 24	Sandy Organio fine grained sar			oft to firm,	779	
24	- 30		Iayey Sand (SC); light gray, moist, medium dense, ne grained, few silt     778				
30	- 44	Poorly Graded dense, fine grai		light gray, mo	ist, medium	777	SM
						775	OH SC
						774	SP
						772	
Additional N	otes:	Hg	Hg, MeHg, pH	Hg, MeHg , pH	МеНд		Hg

Additional Notes:	Hg	Hg, MeHg, pH	Hg, MeHg , pH	MeHg	Hg	
Sample IDs for analysis:	(0-2) Duckweed	(2-8)	(8-24)	(8-24)D	(24-30)	
Sample IDs on hold:	(33-44)					
Picture #s and SWIMS ID:	092-096, 10041	092-096, 10041210 - Portage Canal PC13-09-MMGK EOC				
Comments:	(0-2) is duckweed only, no sediment. 774.				774.5	ft

Project Title Vertical Datu Staff Gauge Water Elevat	ım Reading (ft)	Portage Canal NAVD88 1.67 780.55	Samp	mple Matrix: ling Method: eading Time: Logged by:	MMGK, 3-inch		
Date Collected	Time Collected (military) 8:15	Water Depth (ft) 2.2	Core Penetration (ft) 5.0	Sediment Recovered (ft) 4.1	Percent Recovery 82%		Poling Depth (ft) 4.2
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Pro	Time ocessed lilitary)
PC13-10	43.55403831	-89.43960862	4	Left	10/16/2013	1	11:30
Depth	(inches)		Description			S	ketch
	- 3	Sandy Organio sand Poorly Gradeo				781	
	- 19	silt Sandy Organic Silt (OH); brown, moist, soft, fine				779 —	
19	- 27				ОН		
27	- 47	Poorly Gradec dense, medium			st, medium	777	OH

			773
Additional Notes:	Hg	Hg	
Sample IDs for analysis:	T4(0-6)C	(6-19)	
Sample IDs on hold:	(19-27)		
Picture #s and SWIMS ID:	097-101, 1004121	1 - Portage Canal PC13-10-MMGK	EOC

Comments:

775.9 ft

776

775

774

SM

SP

Project Title	:	Portage Canal	Sa	mple Matrix:	Sediment	
Vertical Datu	um	NAVD88	Samp	ling Method:	MMGK, 3-inch	n inner dia.
Staff Gauge	Reading (ft)	1.67	Gauge R	eading Time:	7:30	
Water Elevat	tion (calc)	780.55		Logged by:	STI Descriptio	on, CRA notes
Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)
10/16/2013	8:37	2.3	5.0	4.5	90%	4.5
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)
PC13-11	43.55402342	-89.43952362	4	Center	10/16/2013	12:00
Depth	(inches)		Descri	ption		Sketch
0	- 9	Sandy Organi very soft, fine g				781
9	- 15	Silt (ML); brow grained sand,	vn, moist, soft,	few to little cl	ay, few fine	780
15	- 19	Silty Sand (SM grained	Silty Sand (SM); brown, moist, medium dense, fine grained 779			
19	- 53	Poorly Graded dense, fine to r				778 OH
						776

				//3	
Additional Notes:	Hg	Hg	Hg		
Sample IDs for analysis:	T4(0-6)C	(6-15)	(15-19)		
Sample IDs on hold:	(19-31)				
Picture #s and SWIMS ID:	102-105, 10041	212 - Portage	e Canal PC13-11-MMGK	EOC	
Comments:				776.0	D ft

775

774

SP

Project Title:	Portage Canal	Sample Matrix: Sediment
Vertical Datum	NAVD88	Sampling Method: MMGK, 3-inch inner dia.
Staff Gauge Reading (ft)	1.67	Gauge Reading Time: 7:30

780.55

Water Elevation (calc)

e.

Logged by: <u>STI Description</u>, CRA notes

Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)
10/16/2013	9:02	2.4	5.0	4.0	80%	4.8
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)
PC13-12	43.55400869	-89.43943844	4	Right	10/16/2013	12:20
Depth (i	inches)		Descri	ption		Sketch
0 -	18	Sandy Organic very soft, trace	fine sand, 6-1	8" a piece of b	ark, detritus	781
18 -	23	Sandy Silt (MI grained, trace t			n, moist, fine	780
23 -	47	Poorly Graded moist to wet, m				779
						777 777 0H 776 775 5М 774 5М 773
Additional No	<u>tes</u> :	Hg	Hg	Hg		
Sample IDs for	or analysis:	T4(0-6)C	(6-18)	(18-23)		
Sample IDs or	n hold:	(23-35)				
Picture #s and	d SWIMS ID:	106-108, 1004	1213 - Portage	Canal PC13-1	2-MMGK	EOC
Comments:						775.2 ft

Project Title:	Portage Canal	Sample Matrix: Sediment
Vertical Datum	NAVD88	Sampling Method: MMGK, 3-inch inner dia.
Staff Gauge Reading (ft)	1.66	Gauge Reading Time: <u>10:50</u>

780.54

Water Elevation (calc)

Logged by: STI Description, CRA notes

Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)
10/16/2013	10:23	1.5	5.0	4.6	92%	4.0
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)
PC13-13	43.55272369	-89.44044437	5	Left	10/16/2013	14:00
Depth	(inches)		Descri	ption		Sketch
0	- 17	Sandy Organie very soft, fine g				781
17	- 26	Silty Sand (SM grained, trace of		medium dense	, fine	780
26 - 54		Poorly Gradec medium dense,	• • •	0 0 5	n, moist,	779 778 0H 7777 SM 7776 5P 775 774 773
Additional N	otes:		Hg	all		
Sample IDs 1	for analysis:	(0-6), (0-6)	)D, (6-17), (6-	17)D, (17-26),	(17-26)D	
Sample IDs	on hold:	(26-38)				
Picture #s a	nd SWIMS ID:	109-112, 1004	1214 - Portage	Canal PC13-1	3-MMGK	EOC

Comments:

Duplicate whole core (except hold).

7<u>76.5 ft</u>

Project Title:	Portage Canal	Sample Matrix: Sediment
Vertical Datum	NAVD88	Sampling Method: MMGK, 3-inch inner dia.
Staff Gauge Reading (ft	) 1.66	Gauge Reading Time: <u>10:50</u>
Water Elevation (calc)	780.54	Logged by: STI Description, CRA notes

Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)
10/16/2013	10:00	2.5	5.0	4.1	82%	4.7
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)
PC13-14	43.55269941	-89.44035898	5	Center	10/16/2013	14:15
Depth	(inches)		Descri	ption		Sketch
0	- 12	Sandy Organi grained sand, c		-	y soft, fine	781
12	12 - 20 <b>Poorly Graded Sand (SP)</b> ; light gray, moist to wet, medium dense, medium grained, trace to no fines					780
20	- 48	Same as above	779			
						778
						777 🗡 ОН
						776
						775 SP
						774
						773
Additional N	otes:	Hg, all				
Sample IDs	for analysis:	(0-6), (6-12)				

Sample IDs on hold:

(12-24) Picture #s and SWIMS ID: 113-115, 10041215 - Portage Canal PC13-14-MMGK

Comments:

775.8 ft

EOC

Project Title:		Portage Canal	Sample Matrix: Sediment				
Vertical Datu	ım	NAVD88	Samp	Sampling Method: MMGK, 3-inch inner dia.			
Staff Gauge	Reading (ft)	1.66	Gauge Re	eading Time:	10:50		
Water Eleva	tion (calc)	780.54		Logged by: STI Description, CRA notes			
Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)	
10/16/2013	9:29	3.0	5.0	4.2	84%	4.2	
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)	
PC13-15	43.55268612	-89.44029632	5	Right	10/16/2013	14:25	
Depth	(inches)		Description			Sketch	
0 - 16 Sandy Organic Silt (OH); black to dark brown, wet, very soft, fine grained sand, @ 14" is 1-inch thick layer of clam shells				781			

0 - 16	very soft, fine grained sand, @ 14" is 1-inch thick layer of clam shells	780 -		
16 - 28	Silty Sand (SM) to Sandy Silt (ML); brown, moist, loose to medium dense, few clay	779 -		
28 - 44	<b>Poorly Graded Sand (SP)</b> ; light gray, moist, medium dense, fine to medium grained			
44 - 50	Same as above; pieces of wood, reed stalks, and sticks, fines content increases	778 -	1	
		777 -	Кон	
		776 -	↓ ↓	•
		775 -	SM - ML	
		774 -	×	
		773 -	∳ SP	
		772 -		

Additional Notes:

Comments:

Hg all

Sample IDs for analysis: (0-6), (6-16), (16-28)

Sample IDs on hold:

Picture #s and SWIMS ID: 116-122, 10041217 - Portage Canal PC13-15-MMGK

(28-40)

EOC

Project Title:	Portage Canal	Sample Matrix: Sediment
Vertical Datum	NAVD88	Sampling Method: MMGK, 3-in

780.54

MGK, 3-inch inner dia.

Staff Gauge Reading (ft) 1.66

Water Elevation (calc)

T

**—** 

Gauge Reading Time: 10:50

Т

Logged by: STI Description, CRA notes

Т

Т

Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)
10/16/2013	12:10	2.0	5.0	4.0	80%	4.9
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)
PC13-16	43.55124653	-89.44137889	6	Left	10/16/2013	14:50
Depth	(inches)		Descri	ption		Sketch
0	- 3	Sandy Organic grained sand, d		lack, wet, very	y soft, fine	781
3	- 7	Silty Sand (SM medium graine	780			
7	- 17	Sandy Organio grained sand, c	779			
17 - 46		Poorly Gradec dense, medium				778 SM 777 ОН 776 SP 775 SP 774
Additional N	otes:	Hg, MeHg,	ТОС, рН	Hg	Hg, TOC, PS	
Sample IDs f	for analysis:	T6(0-	-6)C	(6-17)	(17-35)	
Sample IDs	on hold:					
Picture #s a	nd SWIMS ID:	123-125, 1004	1218 - Portage	Canal PC13-1	6-MMGK	EOC

Comments:

16-18 inches = transition thickness.

775.6 ft

Project Title: Portage Canal Sam		mple Matrix:	Sediment				
Vertical Datum		NAVD88	Sampling Method:		MMGK, 3-inch inner dia.		
Staff Gauge Reading (ft)		1.66	Gauge Reading Time: <u>10:50</u>		10:50		
Water Elevat	tion (calc)	780.54	4 Logged by: STI Description, CRA notes		n, CRA notes		
Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)	
10/16/2013	11:49	2.2	5.0	3.8	76%	4.4	

Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)
PC13-17	43.55121647	-89.44130517	6	Center	10/16/2013	15:10
Depth (	inches)		Descri	ption		Sketch
0 - 18		Sandy Organic very soft, fine <u>c</u> snails 0-6", piec	781			
18 -	44	Poorly Gradeo dense, predomi grained sand, ti	nately medium	n grained sand		779
						778 777 он
						776
						<sup>₩</sup> SP 774
						773
Additional No	tes:	Hg, MeHg,	TOC, pH	Hg		
Sample IDs fo	or analysis:	T6(0-	-6)C	(6-18)		
Sample IDs of	n hold:	(18-30)				

Picture #s and SWIMS ID: 126-129, 10041219 - Portage Canal PC13-17-MMGK EOC

Comments:

ft

775.6

Project Title:	Portage Canal	Sample Matrix: Sediment
Vertical Datum	NAVD88	Sampling Method: MMGK, 3-inch inner dia.
Staff Gauge Reading (ft)	1.66	Gauge Reading Time: <u>10:50</u>
Water Elevation (calc)	780.54	Logged by: STI Description, CRA notes

Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)
10/16/2013	11:34	2.1	5.0	4.1	82%	4.4
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)
PC13-18	43.55118149	-89.44124977	6	Right	10/16/2013	15:30
Depth	(inches)		Descri	ption		Sketch
0	0 - 19 Sandy Organic Silt (OH); black to dark brown, wet to moist, very soft to soft, fine grained sand, snails - 0-6"					781
19	19 - 48Poorly Graded Sand (SP); light gray, wet, medium dense, medium grained, trace to few fines					780
						779
						778
						777 ОН
						776
						775 SP
						774
						773 — · · · · · · · · · · · · · · · · · ·
Additional N	otes:	Hg, MeHg,	ТОС, рН	Hg		
Sample IDs f	for analysis:	T6(0-	-6)C	(6-19)		

Sample IDs on hold:	
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(19-31)	

Picture #s and SWIMS ID: <u>130-133</u>, 10041220 - Portage Canal PC13-18-MMGK

Comments:

EOC

776.0 ft

Project Title:	:	Portage Canal	Sa	mple Matrix:	Sediment	
Vertical Datu	ım	NAVD88	Samp	ling Method:	MMGK, 3-inch	inner dia.
Staff Gauge	Reading (ft)	1.66	Gauge Re	eading Time:	10:50	
Water Elevat	tion (calc)	780.54		Logged by:	STI Descriptio	on, MM notes
Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)
10/16/2013	15:15	1.1	5.0	4.5	90%	5.5
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)
PC13-19	43.54997108	-89.44216442	7	Left	10/17/2013	8:30
Depth (inches)			Description			Sketch
0	- 10	Sandy Organic Silt (OH); black, wet, very soft, fine sand		y soft, fine	781	
10	- 20	Same as above; dark brown, moist, and soft		t	780	
20	- 52	52 <b>Poorly Graded Sand (SP)</b> ; light gray, moist, fine to medium grained, few to trace clay			st, fine to	779
						778
						776 SP
						775
						774
						773

Additional Notes:	Hg	Hg				
Sample IDs for analysis:	(0-6)	(6-20)				
Sample IDs on hold:	(20-32)					
Picture #s and SWIMS ID:	145-147, 1004	1221 - Portage (	Canal PC13-19-MMGK	EO	2	
Comments:				775	.0	ft

Project Title:	Portage Canal	Sample Matrix: Sediment
Vertical Datum	NAVD88	Sampling Method: MMGK, 3-inch inner dia.

780.54

Gauge Reading Time: 10:50

Water Elevation (calc)

Staff Gauge Reading (ft) 1.66

Logged by: STI Description, MM notes

Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)
10/16/2013	14:55	2.0	5.0	4.0	80%	4.3
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)
PC13-20	43.54995307	-89.44210267	7	Center	10/17/2013	9:10
Depth (	inches)		Descri	ption		Sketch
0 -	- 2	Sandy Organion grained sand	c Silt (OH);	black, wet, very	y soft, fine	781
2 -	- 6	Poorly Graded		dark gray, wet,	, loose,	780
6 -	6 - 15 <b>Organic Silt (OH)</b> ; dark brown, moist, soft, trace to few fine grained sand			779		
15 -	15 - 19 Sandy Silt (ML); brown to gray, moist, soft		778 ОН 5Р			
19 -	- 24	<b>Silty Sand (SM)</b> ; brown to gray, moist, loose, fine grained, few clay		777 ОН		
24 -	- 28	Same as above wood	; interbedded	organic layers	and pieces of	
28 -	- 46	Poorly Graded medium dense,			n, moist,	776 CML SM
						775
						774 SP
						773
Additional No	otes:	Hg	Hg	Hg, Ps		
Sample IDs fo	or analysis:	(0-15)	(15-19)	(19-28)		
Sample IDs o	n hold:	(28-40)				
Picture #s an	d SWIMS ID:	148-150, 1004	1222 - Portage	Canal PC13-2	0-MMGK	EOC
Comments:						776.2 ft

Project Title:	Portage Canal	Sample Matrix: Sediment
Vertical Datum	NAVD88	Sampling Method: MMGK, 3-inch inner dia.
Staff Gauge Reading (ft)	1.66	Gauge Reading Time: <u>10:50</u>
Water Elevation (calc)	780.54	Logged by: STI Description, MM notes

Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)
10/16/2013	14:36	1.0	5.0	4.5	90%	2.0
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)
PC13-21	43.54993122	-89.44201211	7	Right	10/17/2013	9:38
Depth	(inches)		Descri	ption		Sketch
0	- 5	Sandy Organic grained sand, d		lark brown, mo	oist, soft, fine	781
5	- 10	Poorly Graded			oose, fine to	780
10	10 - 17 Same as above; dark brown, increased clay content		779 ОН			
17	17 - 22 Clayey Sand (SC); dark brown, wet, loose, fined grained		fined grained	778 SP		
22	- 28	Sandy Sand (I	-		-	777 <u>ML</u>
28	- 51	Poorly Gradeo medium dense,			n, moist,	
						776 V SP
						775
						774
						773
Additional N	otes:	Hg	Hg			
Sample IDs f	for analysis:	(0-5)	(22-28)			
Sample IDs	on hold:	(5-10), (10-17)	), (17-22), (28	-40)		
Picture #s a	nd SWIMS ID:	151-153, 1004	1223 - Portage	Canal PC13-2	1-MMGK	EOC

Comments:

776.7 ft

Project Title	:	Portage Canal	Sample Matrix: Sediment		Sediment	
Vertical Datu	um	NAVD88	Samp	ling Method:	MMGK, 3-inch	inner dia.
Staff Gauge	Reading (ft)	1.66	Gauge Re	eading Time:	10:50	
Water Elevat	tion (calc)	780.54		Logged by:	STI Descriptio	n, MM notes
Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)
10/16/2013	16:22	1.3	5.0	3.8	76%	4.7
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)
PC13-22	43.54838141	-89.44317402	8	Left	10/17/2013	10:14
Depth	(inches)		Description			Sketch
0	- 9	Sandy Organic grained sand	<b>c Silt (OH)</b> ; b	black, wet, very	y soft, fine	781
9	- 14	Same as above	; dark brown			780
14	- 20	Same as above; soft			779	
20	20 - 42 <b>Poorly Graded Sand (SP)</b> , light gray, moist, predominately medium grained			778 ОН		
						777

Additional Notes:	Hg, Ps		
Sample IDs for analysis:	(6-20)		
Sample IDs on hold:	(20-32)		
Picture #s and SWIMS ID:	154-156, 10041224 - Portage Canal PC13-22-MMGK		
Comments:	The (0-6) sample was accidentally disposed, T8 was not	EOC	
	composited.	775.8	ft

776

775

774

↓ SP

Project Title	:	Portage Canal	Sample Matrix: Sediment			
Vertical Datu	ım	NAVD88	Sampling Method: MMGK, 3-inch inner dia.		inner dia.	
Staff Gauge	Reading (ft)	1.66	Gauge Reading Time: <u>10:50</u>			
Water Elevat	tion (calc)	780.54	Logged by: STI Description, MM notes		n, MM notes	
	Timo		Coro	Sodimont		Deline

Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)
10/16/2013	16:02	2.1	5.0	4.1	82%	4.0
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)
PC13-23	43.54835797	-89.44311567	8	Center	10/17/2013	10:30
Depth	(inches)		Descri	ption		Sketch
0 -	- 12	Sandy Organic very soft, fine g			rown, wet,	781
12	- 49	Poorly Gradeo medium dense,			n, wet,	780
						779
						778
						ОН 7777
						776
						775 SP
						774
						773
Additional No	otes:	Hg				
Sample IDs f	for analysis:	(0-12)				

Sample IDs on hold:

(12-24)

Picture #s and SWIMS ID: 157-159, 10041225 - Portage Canal PC13-23-MMGK

Comments:

EOC

776.5 ft

Project Title:	Portage Canal	Sample Matrix: Sec
Vertical Datum	NAVD88	Sampling Method: MM

780.54

liment

Staff Gauge Reading (ft) 1.66

IGK, 3-inch inner dia. ı٢

Gauge Reading Time: 10:50

Water Elevation (calc)

f

Logged by: STI Description, MM notes

Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)
10/16/2013	15:43	1.8	5.0	4.1	82%	4.0
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)
PC13-24S	43.54830804	-89.44305832	8	Right	10/17/2013	10:42
Depth (	(inches)		Descri	ption		Sketch
0 -	- 3	Sandy Organic grained sand, d		black, wet, very	y soft, fine	781
3 -	- 8	Poorly Graded			y, moist,	780
8 -	17	Sandy Organic grained sand, fo		prown, moist, s	oft, fine	779
17 -	- 48	Poorly Gradec dense, medium		0 0 5		ОН 778 SP
						777
						776
						775 SP
						774
						773
Additional No	otes:	Hg	Hg			
Sample IDs for	or analysis:	(0-3)	(8-17)			
Sample IDs o	n hold:	(3-8), (17-29)				
Picture #s an	d SWIMS ID:	160-162, 1003	9749 - Portage	Canal PC-13-I	E03 Bank	EOC
Comments:		resampling PC1	3-E03, within	6-ft.		776.4 ft

Project Title:	:	Portage Canal	Sa	mple Matrix:	Sediment	
Vertical Datu	ım	NAVD88	Sampling Method: MMGK, 3-ind		MMGK, 3-inch	inner dia.
Staff Gauge	Reading (ft)	1.67	Gauge Re	eading Time:	7:50	
Water Elevat	ion (calc)	780.55		Logged by:	STI Descriptio	on, MM notes
Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)
10/17/2013	9:11	1.3	5.0	4.0	80%	4.9
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)
PC13-25	43.54710880	-89.44399675	9	Left	10/17/2013	1:40
Depth	(inches)		Descri	ption		Sketch
10	- 10 - 18 - 47	Sandy Organic grained sand, le Same as above Poorly Graded dense, medium	aves and detr ; dark brown, i I Sand (SP); I	itus moist, and soft ight gray, mois	t	781 780 779 7778 ОН 7777 7776 SP 7775 7774
Additional No	otes:	Hg, Pb				

Sample IDs for analysis:	(0-18)	
Sample IDs on hold:	none	
Picture #s and SWIMS ID:	178-180, 10041306 - Portage Canal - PC13-25-MMGK	EOC

Comments:

18-ft from PC-13-W09.

Project Title	:	Portage Canal	Sa	mple Matrix:	Sediment	
Vertical Datu	Vertical Datum		NAVD88 Sampling Method: MMGK, 3-inch			
Staff Gauge	Reading (ft)	1.67	Gauge Re	eading Time:	7:50	
Water Elevat	tion (calc)	780.55	-	Logged by:	STI Descriptio	on, MM notes
Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)
10/17/2013	9:44	1.0	5.0	4.0	80%	2.9
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)
PC13-25S	43.54716790	-89.44396821	9	Left	10/17/2013	12:40
Depth (inches)		Description				Sketch
	- 8 - 20	<ul> <li>Sandy Organic Silt (OH); black, wet, very soft, fine grained sand</li> <li>Poorly Graded Sand (SP) to Silt (ML); dark brown, moist, loose, sand with interbedded 1/4 inch thick layers</li> </ul>				781
20	- 48	of silt Poorly Gradec dense, medium			st, medium	779 OH 778 SP to ML
						776 SP 775

					774	
Additional Notes:	Hg	Hg	Hg	Hg		
Sample IDs for analysis:	(0-8)	(0-8)D	(8-20)	(8-20)D		
Sample IDs on hold:	(20-32)					
Picture #s and SWIMS ID:	166-168, 10039746 - Portage Canal PC-13-W09 Bank EOC					
Comments:	resampling PC <sup>2</sup>	777.6	ft			

Project Title:		Portage Canal	Sa	mple Matrix:	Sediment		
Vertical Datu	ım	NAVD88	Samp	ling Method:	MMGK, 3-inch	inner dia.	
Staff Gauge	Reading (ft)	1.67	Gauge Re	eading Time:	7:50		
Water Elevat	tion (calc)	780.55		Logged by:	STI Descriptic	n, MM notes	
Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)	
10/17/2013	8:55	2.0	5.0	4.2	84%	3.8	
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)	
PC13-26	43.54710059	-89.44393380	9	Center	10/17/2013	13:00	
Depth	(inches)		Descri	Description Sketch			
0	- 9	Sandy Organio sand	<b>c Silt (OH)</b> ; b	llack, wet, very	y soft, fine	781	
9	- 21	Poorly Graded dense, medium			st, medium	780	
21	- 23	Poorly Graded dense	Gravel (GP)	; light gray, m	noist, medium	779	
23	- 49	Poorly Graded Sand (SP); light gray, moist, medium dense, medium to fine grained				778 ОН	
		2"x3" wood pie	ce from 31 to 3	32 inches *phc	oto*	777 SP 776 <u>GP</u>	

Additional Notes:

Hg, MeHg, pH

Sample IDs for analysis:

Sample IDs on hold:

(0-9)

(9-21)

Picture #s and SWIMS ID: 169-173, 10041226 - Portage Canal PC13-26-MMGK

Comments:

EOC

775

774

773

SP

Project Title	:	Portage Canal	Sa	mple Matrix:	Sediment	
Vertical Datu	um	NAVD88	Samp	ling Method:	MMGK, 3-inch	inner dia.
Staff Gauge	Reading (ft)	1.67	Gauge Re	eading Time:	7:50	
Water Elevat	tion (calc)	780.55	-	Logged by:	STI Descriptio	on, MM notes
Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)
10/17/2013	8:35	1.3	5.0	4.2	84%	2.1
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)
PC13-27	43.54707642	-89.44385092	9	Right	10/17/2013	1:19
Depth (inches)			Description			Sketch
0	- 12	Sandy Organic Silt (OH); black, wet, very soft to soft (8-inches), fine grained sand, leaves			781	
12	- 28	Poorly Graded		ight gray, mois	st, medium	780
28	- 31	Sandy Organi	c Silt (OH); da	ark brown, mo	ist	779
31	31 - 50 <b>Poorly Graded Sand (SP)</b> ; light gray, moist, medium dense, medium grained				st, medium	778 ОН ●
						777 SP
						776 <u>он</u>
						775 SP
						774

Comments:

Additional Notes:

Sample IDs on hold:

Sample IDs for analysis:

EOC

773

Hg, Pb, Ps

(28-31)

Hg, Pb, Cd, Ag, TCLP

(0-12)

Picture #s and SWIMS ID: 174-177, 10041227 - Portage Canal PC13-27-MMGK

(12-24)

Project Title:	Portage Canal	Sample Matrix:	Sediment
Vertical Datum	NAVD88	Sampling Method:	MMGK, 3-inch inner dia.
Staff Gauge Reading (ft)	1.68	Gauge Reading Time:	14:30
Water Elevation (calc)	780.56	Logged by:	STI Description, DD notes

Time Core Sediment Poling Water Depth Penetration Date Collected Recovered Percent Depth (military) Collected (ft) (ft) (ft) Recovery (ft) 10/17/2013 16:20 1.5 5.0 4.0 80% 3.5 River Time Sample Latitude Longitude (looking Date Processed Location ID (Y) (X) Transect DS) Processed (Military) PC13-28 43.54586956 -89.44480578 10/18/2013 8:15 10 Left Depth (inches) Description Sketch 781 Sandy Organic Silt (OH); dark brown, wet, soft, fine 0 - 12 grained sand Poorly Graded Sand (SP); light gray to tan, moist, 780 12 - 47 medium dense, medium to fine grained, trace fines, a 1/2inch organic layer at 25" 779 ОН 778 777 776 SP 775 774 773 Hg, MeHg, TOC, pH Additional Notes: Hg Hg

Sample IDs for analysis:	T10(0-6)C	T10(0-6)CD	(6-12)			
Sample IDs on hold:	(12-24)					
Picture #s and SWIMS ID:	d SWIMS ID: 196-198, 10041228 - Portage Canal PC13-28-MMGK EC					
Comments:	Difficult Marshmaster set	up, dug a large hole.	May affect	777.1	ft	

sample representativeness of in-situ conditions, mixing, and/or unrecovered sediment.

Project Title:	Portage Canal	Sample Matrix: Sediment
Vertical Datum	NAVD88	Sampling Method: MMGK, 3-inch inner dia.
Staff Gauge Reading (ft)	1.68	Gauge Reading Time: <u>14:30</u>

780.56

Water Elevation (calc)

Logged by: <u>STI Description</u>, DD notes

Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)
10/17/2013	15:46	3.0	5.0	4.5	90%	4.0
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)
PC13-29	43.54582116	-89.44471824	10	Center	10/18/2013	8:50
Depth (i	inches)		Descri	ption		Sketch
0 -	8	Sandy Organic grained sand, r			oist, soft, fine	781
8 -	11	Silty Sand (SM transition layer	<b>/)</b> ; brown to g	ray, moist, fine	e grained, a	780
11 -	24	Same as above brown organic I		edium dense, i	interbedded	779
24 -	35	Same as above; stratified 1/4 to 1/16 inch thick dark brown organic layers with roots and detritus				778
35 -	42	Same as above	; less stratified	l organic layers	5	777 Он
42 -	47	<b>Organic Silt (</b> twigs	<b>OH)</b> ; dark bro	wn, moist, sof	t, sticks and	776
47 -	50	Silty Sand (SM stratified 1/2 in			n dense,	775 - 🕌 SM
						774
						773 SM
Additional No	tes:	Hg, MeHg,	TOC, pH	Hg	Hg	Hg
Sample IDs fo	or analysis:	T10(0	0-6)C	T10(0-6)CD	(6-8)	(24-35), (42-47)
Sample IDs or	n hold:	(8-24), (35-42)	)			
Picture #s and	d SWIMS ID:	199-201, 1004	1230 - Portage	Canal PC13-2	9-MMGK	EOC
Comments:		(47-50) discard	led, other sam	ples adequate	to determine E	OC. 776.4 ft

Project Title:	Portage Canal	Sample Matrix: Sediment
Vertical Datum	NAVD88	Sampling Method: MMGK, 3-inch inner dia.
Staff Gauge Reading (ft)	1.68	Gauge Reading Time: <u>14:30</u>
Water Elevation (calc)	780.56	Logged by: STI Description, DD notes

Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)	
10/17/2013	15:43	1.3	5.0	4.0	80%	4.0	
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)	
PC13-30	43.54579923	-89.44463794	10	Right	10/18/2013	9:28	
Depth	(inches)		Sketch				
0	- 5	Sandy Organion and detritus	781				
5 - 9		Poorly Graded	780				
9 - 19		Sandy Organio grained sand	779 Он				
19 - 45		<b>Poorly Graded</b> dense, fine to r	778				
		1/4-inch thick d	orgainic layer a	t 22 and 24-in	ches	ОН	
						776 SP	
						775	
						774	
Additional N	otes:	Hg, MeHg,	ТОС, рН	Hg	Hg		
Sample IDs 1	for analysis:	T10(C	0-6)C	T10(0-6)CD	(9-19)		

Sample IDs on hold:

(19-31)

Picture #s and SWIMS ID: 202-204, 10041231 - Portage Canal PC13-30-MMGK

Comments:

2-inches of  $H_2O$  and duckweed on top. Excluded (6-9) sand from sampling.

EOC = 776.6 ft

Project Title:		Portage Canal	Sample Matrix: Sediment				
Vertical Datum		NAVD88	Sampling Method: MMGK, 3-inch inner dia.				
Staff Gauge Reading (ft)		1.59	Gauge Reading Time: <u>15:10</u>				
Water Elevation (calc)		780.47	Logged by: STI Description			n, AH notes	
Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)	
10/14/2013	15:20	1.8	5.0	4.5	90%	4.0	
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)	
PC13-31	43.54482405	-89.44565559	11	Left	10/15/2013	9:00	
Depth	(inches)		Sketch				
0 - 17 17 - 22		Sandy Organie from 10 to 22 i Same as above	781				
22 - 56		Poorly Gradeo grained, stratifi	779				
						778 X OH 777	
						776 775SP	
						774	
	otos					,,,,	
Additional Notes: Sample IDs for analysis:		Hg (0-10)	Hg (10-22)				
			(				

Sample IDs on hold: (22-28), (28-34)

Picture #s and SWIMS ID: 017-019, 10041232 - Portage Canal PC13-31-MMGK

Comments:

slight anthropogenic odor

EOC

Project Title:		Portage Canal	Sample Matrix: Sediment					
Vertical Datum		NAVD88	Sampling Method: MMGK, 3-inch inner dia.					
Staff Gauge Reading (ft)		1.59	Gauge Reading Time: <u>15:10</u>					
Water Elevation (calc)		780.47	Logged by: STI Description, AH notes					
Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)		
10/14/2013	15:30	1.8	5.0	4.0	80%	4.0		
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)		
PC13-32	43.54478973	-89.44558968	11	Center	10/15/2013	9:38		
Depth	(inches)		Sketch					
12 19 30	0 - 12Sandy Organic Silt (OH); black, wet, very soft, sticks and branches12 - 19Same as above; dark gray, small clam shells19 - 30Silty Sand (SM); dark gray, moist, loose30 - 47Poorly Graded Sand (SP); tan, moist, medium grained, trace to no fines47 - 49Same as above; dark brown, decomposed wood and organics, few to little fines				s dium grained,	781 780 779 778 0H 777 776 SM 775 SP		
						774		
	otos	Hg	Hg			-		
Additional N		ну (0-12)	ну (19-30)					
Sample IDs for analysis: Sample IDs on hold:		(12-19), (30-4)						
Picture #s and SWIMS ID: 020-022, 10041233 - Portage Canal PC13-32-MMGK EOC						EOC		

Comments:

775.2 ft

Project Title:		Portage Canal	Sample Matrix: Sediment				
Vertical Datum		NAVD88	Sampling Method: MMGK, 3-inch inner dia.				
Staff Gauge Reading (ft)		1.59	Gauge Reading Time: <u>15:10</u>				
Water Elevation (calc)		780.47	Logged by: STI Description			n, AH notes	
Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)	
10/14/2013	15:50	0.5	5.0	4.0	80%	2.0	
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)	
PC13-33	43.54475681	-89.44555868	11	Right	10/15/2013	10:19	
Depth (inches)			Sketch				
0 - 8		<b>Poorly Graded Sand (SP)</b> ; dark gray, moist, medium dense, few to little fines, sticks and detritus				781	
8 - 14		Same as above	780				
14 - 19		Silt with Sand shells at 16"	779				
19 - 38		Poorly Gradeo tan, medium gr organics, 13%	778 ML				
38 - 50		Same as above less layers	777 SP-				
						776 SM	
						775	
						774	
						773	
Additional N	otes:	Hg	Hg	Hg, Pb,	TOC, Ps		
Sample IDs	for analysis:	(0-6)	(6-19)	(38-	-44)		
Sample IDs on hold:		(20-38)					

Picture #s and SWIMS ID: 023-025, 10041234 - Portage Canal PC13-33-MMGK MarshMaster at 20° angle from vertical during sampling.

Comments:

ft

EOC

777.5

Project Title	:	Portage Canal	Sa	mple Matrix:	Sediment		
Vertical Datu	um	NAVD88	Samp	ling Method:	MMGK, 3-inch	inner dia.	
Staff Gauge	Reading (ft)	1.59	Gauge Re	eading Time:	15:10		
Water Eleva	tion (calc)	780.47		Logged by:	STI Descriptio	on, AH notes	
Date Collected	Time Collected (military)	Water Depth (ft)	CoreSedimentPolingPenetrationRecoveredPercentDepth(ft)(ft)Recovery(ft)				
10/14/2013	16:30	1.3	5.0	4.5	90%	2.8	
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)	
PC13-34	43.54407028	-89.44687931	12	Left	10/15/2013	10:45	
Depth	(inches)		Descri	ption		Sketch	
0	- 12	Sandy Organic and branches	<b>c Silt (OH)</b> ; b	lack, wet, very	y soft, roots	781	
12	2 -17	-	Poorly Graded Sand (SP); gray to dark brown, moist, oose, medium to fine grained			780	
17	- 23	Sandy Organi	Sandy Organic Silt (OH); dark brown, moist, very soft, 779				
23	- 54	Poorly Graded			dium dense,	OH	

		773 —	
		774 –	SM
		775	
		//0	¥ SP
		776	
54 - 55	Silty Sand (SM); gray, moist, fine grained	777 -	SP OH
20 01	medium grained, trace to no fines	778	

Additional Notes:	Hg	Hg	
Sample IDs for analysis:	T12(0-12)C	(12-23)	
Sample IDs on hold:	(23-35)		
Picture #s and SWIMS ID:	026-029, 100412	235 - Portage Canal PC13-34-MMGK	EOC

Comments:

Project Title:	:	Portage Canal	Sa	mple Matrix:	Sediment			
Vertical Datu	um	NAVD88	Samp	ling Method:	MMGK, 3-inch	inner dia.		
Staff Gauge	Reading (ft)	1.59	Gauge R	Gauge Reading Time: <u>15:10</u>				
Water Elevat	tion (calc)	780.47		Logged by:	STI Descriptio	on, AH notes		
Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)		
10/14/2013	16:09	1.6	5.0	4.5	90%	3.2		
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)		
PC13-35	43.54405029	-89.44685563	12	Center	10/15/2013	11:19		
Depth	(inches)		Descri	ption		Sketch		
0	- 10	Sandy Organic grained sand, s			y soft, fine	781		
10	- 17	Same as above	780					
17	- 21	Silty Sand (SM grained, wood o	779					
21	- 51	Poorly Graded medium graine			edium dense,	778 OH 777 SM 776 SP 775 774		
						773		
Additional No	otes:	HG	Hg			l		
Sample IDs 1			(12-21)					
24112101201		112(012)0	(11)					

Sample IDs on hold:

(21-35)

Picture #s and SWIMS ID: 030-032, 10041236 - Portage Canal PC13-35-MMGK

Comments:

ft

EOC 776.6

Project Title	:	Portage Canal Sample Matrix: Sediment				
Vertical Datu	ım	NAVD88	Samp	ling Method:	MMGK, 3-inch	inner dia.
Staff Gauge	Reading (ft)	1.59	Gauge Re	eading Time:	15:10	
Water Eleva	tion (calc)	780.47		Logged by:	STI Descriptio	on, AH notes
Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)
10/14/2013	16:45	0.8	5.0	4.5	90%	1.2
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)
PC13-36	43.54401661	-89.44679404	12	Right	10/15/2013	11:29
Depth	(inches)		Descri	ption		Sketch
0	- 7	Silty Sand (SM grained, sticks,		ist, loose, med	ium to fine	781
		Sandy Organi		lark brown me	vict coft fino	1

0 - 7	grained, sticks, detritus			
7 - 24	<b>Sandy Organic Silt (OH)</b> ; dark brown, moist, soft, fine grained sand	780		
24 - 31	<b>Poorly Graded Sand (SP)</b> ; gray, moist, medium dense, trace to no fines, a transition layer	779	SM	▲
31 - 51	Same as above; tan	778	он	
		777	×	
		776	SP	
		775		
		774		
		773		
Additional Notes:	Hg Hg Hg			
Sample IDs for analysis:	T12(0-12)C (12-24) (24-30)			
Sample IDs on hold:	(30-36)			
Picture #s and SWIMS ID:	033-035, 10041237 - Portage Canal PC13-36-MMGK		EOC	
Comments:			777.2	ft

Project Title:Portage CanalVertical DatumNAVD88Staff Gauge Reading (ft)1.70			Samp	mple Matrix: ling Method: eading Time:	MMGK, 3-inch	inner dia.
Water Elevat	ion (calc)	780.58		Logged by:	STI Descriptio	n, DD notes
Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)
10/18/2013	8:53	2.0	5.0	4.0	80%	4.3
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)

PC13-37       43.54340291       -89.44835595       13       Left       10/18/2013       11:03         Depth (inches)       Description       Sketch         0 - 12       Sandy Organic Silt (OH); black to dark brown, wet, very soft, fine grained sand, clam shells and detritus       781       780         12 - 45       Poorly Graded Sand (SP); light gray to tan, wet, loose, medium to fine grained, 1/4-inch thick black organic layers at 13", 14", and 18.5"       779       778         12 - 45       Image: Comparison of the grained section of the grained, 1/4-inch thick black organic layers at 13", 14", and 18.5"       779       778         12 - 45       Image: Comparison of the grained, 1/4-inch thick black organic layers at 13", 14", and 18.5"       779       778         13 - 45       Image: Comparison of the grained section of the grained, 1/4-inch thick black organic layers at 13", 14", and 18.5"       779       778         13 - 45       Image: Comparison of the grained section of the grained, 1/4-inch thick black organic layers of the grained section		.,	. ,			I		J/		
0 - 12       Sandy Organic Silt (OH); black to dark brown, wet, very soft, fine grained sand, clam shells and detritus       781         12 - 45       Poorly Graded Sand (SP); light gray to tan, wet, loose, medium to fine grained, 1/4-inch thick black organic layers at 13", 14", and 18.5"       779         778       778       778         779       778       778         770       777       777         771       775       59         775       59       774         773       774       773	PC13-37	43.54340291	-89.44835595	13	Left	10/18/2013		11:03		
0 - 12       Sandy Organic Silt (OH); black to dark brown, wet, very soft, fine grained sand, clam shells and detritus       780         12 - 45       Poorly Graded Sand (SP); light gray to tan, wet, loose, medium to fine grained, 1/4-inch thick black organic layers at 13", 14", and 18.5"       779         778       778       779         777       778       777         777       778       777         777       776       777         775       SP       774         774       773	Depth	(inches)		Descri	ption			Sketch		
12 - 45       Poorly Graded Sand (SP); light gray to tan, wet, loose, medium to fine grained, 1/4-inch thick black organic layers at 13", 14", and 18.5"       779         778       778       777         777       777       776         775       SP       774         773       773       773         Additional Notes:       Hg, TOC, Ps       Hg, TOC, Ps	0	- 12								
Additional Notes:       Hg, TOC, Ps       Hg, TOC, Ps	12	- 45	medium to fine	grained, 1/4-i						
Additional Notes:       Hg, TOC, Ps       Hg, TOC, Ps							778	он		
Additional Notes:       Hg, TOC, Ps       Hg, TOC, Ps							777 -			
Additional Notes:       Hg, TOC, Ps       Hg, TOC, Ps							-	SP		
Additional Notes: Hg, TOC, Ps Hg, TOC, Ps							-			
							773 -			
Sample IDs for analysis: (0-6) (6-12)	Additional N	otes:	Hg, TOC, Ps	Hg, TOC, Ps						
	Sample IDs	for analysis:	(0-6)	(6-12)						

Sample IDs on hold:

(12-24)

Top marked after cutting.

Picture #s and SWIMS ID: 205-207, 10041238 - Portage Canal PC13-37-MMGK

Comments:

ft

EOC

776.3

Project Title:	Portage Canal	Sample Matrix: Sediment
Vertical Datum	NAVD88	Sampling Method: MMGK, 3-inch inner dia.
Staff Gauge Reading (ft)	1.70	Gauge Reading Time: 7:50
Water Elevation (calc)	780.58	Logged by: STI Description, DD notes

Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)
10/18/2013	8:38	1.1	5.0	4.2	84%	4.0
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)
PC13-38	43.54336516	-89.44833085	13	Center	10/18/2013	11:25
Depth	(inches)		Descri	ption		Sketch
0	- 10	Sandy Organi grained sand, v			y soft, fine	781
10	- 50	Poorly Graded dense, medium			n, medium	780
						779 ОН
						778
						777
						776 SP
						775
						774
						773
Additional N	otes:	Hg	Hg			
Sample IDs f	for analysis:	(0-6)	(6-10)			
C	I I -I	(10.00)				

Sample IDs on hold: (10-22) Picture #s and SWIMS ID: 208-210, 10041239 - Portage Canal PC13-38-MMGK Watery interface, may have lost some surface material with water.

Comments:

ft

EOC

776.6

Project Title	:	Portage Canal	Sa	mple Matrix:	Sediment	
Vertical Datu	um	NAVD88	Samp	ling Method:	MMGK, 3-inch	inner dia.
Staff Gauge	Reading (ft)	1.70	Gauge Re	eading Time:	7:50	
Water Elevat	tion (calc)	780.58		Logged by:	STI Descriptio	on, DD notes
Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)
10/18/2013	8:24	1.1	5.0	4.0	80%	3.7
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)
PC13-39	43.54331743	-89.44828315	13	Right	10/18/2013	11:38
Depth (inches)		Description				Sketch
0	Sandy Organic Silt (OH); k         grained sand, leaves and detr         - 17       same as above; dark brown, same as			itus	y soft, fine	781
17	- 35 - 46	Poorly Gradec dense, fine grad Same as above	<b>I Sand (SP)</b> ; I ined	ight gray, moi	st, medium	779
						778
						777 <b>5</b> P
						775
1						774

Additional Notes:	Hg	Hg				
Sample IDs for analysis:	(0-6)	(6-17)				
Sample IDs on hold:	(17-29)					
Picture #s and SWIMS ID:	211-213, 100412	11-213, 10041240 - Portage Canal PC13-39-MMGK				
Comments:	Core Weight = 23	3.6 lbs	77	6.9	ft	

Project Title	:	Portage Canal Sample Matrix: Sediment				
Vertical Datu	ım	NAVD88	Sampling Method: MMGK, 3-inch inner dia.			inner dia.
Staff Gauge	Reading (ft)	1.70	Gauge Reading Time: 7:50			
Water Elevat	tion (calc)	780.58	Logged by: STI Description, DD notes			on, DD notes
Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)
10/18/2013	10:21	0.8	5.0	3.5	70%	3.5
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)
PC13-40	43.54290953	-89.44941969	14	Left	10/18/2013	12:50
Depth	(inches)		Descri	ption		Sketch
0 - 7 Sandy Organic Silt (OH and detritus 7 - 16 same as above; dark brow				y soft, wood	781	
16	- 22	Poorly Graded trace to no fine		gray, moist, m	edium dense,	779
22	- 37	Same as above	; light gray to	tan		ОН 778
						777
						776 SP
						775
						774

Additional Notes:	Hg, MeHg, pH	Hg	Hg			
Sample IDs for analysis:	T14(0-6)C	(6-16)	(16-22), per Jim K. request			
Sample IDs on hold:	(22-37)					
Picture #s and SWIMS ID:	214-216, 1004124	14-216, 10041241 - Portage Canal PC13-40-MMGK				
Comments:	Core weight = 17.4	ore weight = 17.4 pounds				

Sample Latitude			4.0		
Location ID (Y)	atitude Longitude (loo	ver king Date S) Processed	Time Processed (Military)		
PC13-41 43.5428749	54287498 -89.44939195 14 Cer	nter 10/18/2013	13:05		
Depth (inches)	nes) Description		Sketch		
0 - 8 8 - 9 9 - 16 16 - 40	grained sand, leaves, twigs, and 2" p shells Silty Sand (SM); dark brown to bro transition layer Poorly Graded Sand (SP); light gra grained, trace silt	Sand (SM); dark brown to brown, moist, loose, a ition layer Iy Graded Sand (SP); light gray, loose, fine			
		нg, MeHg, pH Hg T14(0-6)С (6-9)			

Picture #s and SWIMS ID: 217-219, 10041242 - Portage Canal PC13-41-MMGK

Comments: Core weight = 21.0 lbs

EOC

Project Title	:	Portage Canal	Sa			
Vertical Datu	ım	NAVD88	Samp	Sampling Method: MMGK, 3-inch inner dia.		
Staff Gauge	Reading (ft)	1.68	Gauge Reading Time: <u>12:50</u>			
Water Eleva	tion (calc)	780.56		Logged by:	STI Descriptio	on, DD notes
Date Collected	Time Collected (military)	Water Depth (ft)	CoreSedimentPolinPenetrationRecoveredPercentDep(ft)(ft)Recovery(ft)			
10/18/2013	10:56	1.7	5.0	3.8	76%	4.2
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking Date Transect DS) Processed		
PC13-42	43.54282866	-89.44936091	14	Right	10/18/2013	13:22
Depth	(inches)		Descri	ption		Sketch
0	- 9	very soft, fine g from 6 to 9 incl	very soft, fine grained sand, shells, snails, leaves, twigs, rom 6 to 9 inches is few clay			781
9	- 24	Poorly Graded medium grained		yray, moist, ff	ieuluitt ueltse,	

9 - 24	<b>Poorly Graded Sand (SP)</b> ; gray, moist, medium dense, medium grained	
24 - 40	Same as above; light gray to tan	779
		778 ОН
		777
		_776
		775
		774
		773
Additional Notes:	Ha, MeHa, pH Ha Ha	

Additional Notes:	нд, менд, рн	Hg	Hg			
Sample IDs for analysis:	T14(0-6)C	(6-9)	(9-15)			
Sample IDs on hold:	(15-27)					
Picture #s and SWIMS ID:	220-222, 100412	20-222, 10041243 - Portage Canal PC13-42-MMGK				
Comments:	Core weight = 20	.6 lbs		776.4	ft	

Project Title:	:	Portage Canal	Sa	mple Matrix:	Sediment		
Vertical Datu	ım	NAVD88	Samp	ling Method:	: MMGK, 3-inch inner dia.		
Staff Gauge	Reading (ft)	1.68	Gauge Re	eading Time:	: 12:50		
Water Elevat	ion (calc)	780.56		Logged by:	: STI Description, DD notes		
Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)	

10/18/2013	13:12	1.0	5.0	4.6	92%	4.0
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)
PC13-43	43.54224560	-89.45083807	15	Left	10/18/2013	14:45
Depth	(inches)		Descri	ption		Sketch
0 - 10		Sandy Organic grained sand, p	781			
10	Poorly Graded Sand (SP); tan, moist, medium dense,10 - 52fine to medium grained, at 14" is a 1/8-inch thick layer of organics					
						778
						777 SP •
						776
						775
						774
						773
Additional N	otes:	Hg	Hg			
Sample IDs 1	for analysis:	(0-6)	(6-10)			
Sample IDs	on hold:	(10-22)				
Picture #s a	nd SWIMS ID:	224-227, 10042	1244 - Portage	Canal PC13-4	3-MMGK	EOC

Comments:

Core Weight = 27.4 lbs

776.6 ft

Project Title	:	Portage Canal	Sample Matrix: Sediment			
Vertical Datu	ım	NAVD88	Sampling Method: MMGK, 3-inch inner dia.		inner dia.	
Staff Gauge	Reading (ft)	1.68	Gauge Re	Gauge Reading Time: <u>12:50</u>		
Water Elevat	ion (calc)	780.56		Logged by:	ogged by: STI Description, DD notes	
Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recoverv	Poling Depth (ft)

ł

10/18/2013	13:34	2.0	5.0	3.9	78%	4.5
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)
PC13-44	43.54220681	-89.45079520	15	Center	10/18/2013	14:58
Depth	(inches)		Descri	ption		Sketch
0	- 2	Sandy Organic sticks, reed gra		lack, wet, very	y soft, twigs,	781
2	- 5	Silty Sand (SM	Silty Sand (SM); dark gray, wet, loose			
5	- 7	Sandy Organic Silt (OH); dark brown, wet, very soft, fine grained sand				779
7	- 26	Poorly Graded medium dense,			n, moist,	778 ОН 
26	- 28	same as above;	coarse graine	d		777 ОН
28	28 - 43 same as above; fine grained				776	
						775
						774
						773

Additional Notes:	Hg		
Sample IDs for analysis:	(0-7)		
Sample IDs on hold:	(7-19)		
Picture #s and SWIMS ID:	228-230, 10041245 - Portage Canal PC13-44-MMGK	EOC	
Comments:	2" $H_2O$ on top, core weight = 24.6 lbs, proposed TCLP sample	776.1	ft

moved to PC13-45 due to lack of sediment at this location.

Project Title	:	Portage Canal	ortage Canal Sample Matrix: Sediment				
Vertical Datu	ım	NAVD88	Sampling Method: MMGK, 3-inch inner dia.			inner dia.	
Staff Gauge	Reading (ft)	1.68	Gauge Reading Time: <u>12:50</u>				
Water Elevat	tion (calc)	780.56	Logged by: STI Description, DD notes			n, DD notes	
Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)	
10/18/2013	13:51	0.5	5.0 4.0 80%			2.3	
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)	
PC13-45	43.54217817	-89.45078281	15	Right	10/18/2013	15:13	
Depth	(inches)		Descri	ption		Sketch	
0	- 6	Sandy Organio grained sand, t		llack, wet, very	y soft, fine	781	
6	- 11	same as above	; dark brown, r	noist, soft		780	
11	- 17	Poorly Graded few fines, trace		gray, moist, mo	edium dense,	779 <u>× OH</u>	
17	- 33	same as above	; light gray, me	edium to fine g	rained	778	
33	- 44	same as above	; more coarse	grained		×	
						777 V SP	
						776	
						775	
						774	
						773	
Additional N	otes:	Hg, Pb, Cd	, Ag, TCLP	Hg	Hg		
Sample IDs f	for analysis:	(0-	6)	(6-11)	(11-17)		
Sample IDs	on hold:	(17-29)					

 Picture #s and SWIMS ID:
 231-235, 10041246 - Portage Canal PC13-45-MMGK
 EOC

 Comments:
 core weight = 22.6 lbs, TCLP (more material than PC13-44)
 778.1 ft

Project Title:		Portage Canal	Sample Matrix:         Sediment				
Vertical Datu	ım	NAVD88	Samp	ling Method:	MMGK, 3-inch	inner dia.	
Staff Gauge	Reading (ft)	1.68	Gauge Re	eading Time:	12:50		
Water Elevat	tion (calc)	780.56		Logged by:	STI Descriptio	n, DD notes	
Date Collected	Time Collected (military)	CoreSedimentWater DepthPenetrationRecovered(ft)(ft)(ft)Recovery				Poling Depth (ft)	
10/18/2013	15:32	1.3	1.3 5.0 4.2 84%				
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)	
PC13-46	43.54165906	-89.45210828	16	Left	10/18/2013	16:20	
Depth	(inches)	Description				Sketch	
	- 6 - 16	Sandy Organic grained sand, d Same as above	781				
	- 23	Same as above				779	
23	- 51	Poorly Gradeo medium dense,		ight gray to ta	n, moist,	778 OH	
						777	
						776	
						775 SP	
						774	
						773	

		//3	
Additional Notes:	Нд, МеНд, рН		
Sample IDs for analysis:	<u>T16(0-6)C, (6-11), (11-23)</u>		
Sample IDs on hold:	(23-35)		
Picture #s and SWIMS ID:	236-238, 10041247 - Portage Canal PC13-46-MMGK	EOC	
Comments:	Lots of $H_2O$ on top, Core weight = 24.2 lbs., Adj. sampling	775.7	ft

plan - moved MeHg here (from PC13-47) because there is more sediment.

Project Title:		Portage Canal	Sa	mple Matrix:	Sediment		
Vertical Datu	um	NAVD88	Samp	ling Method:	MMGK, 3-inch	inner dia.	
Staff Gauge	Reading (ft)	1.68	Gauge Re	eading Time:	12:50		
Water Elevat	tion (calc)	780.56		Logged by:	STI Descriptio	on, DD notes	
Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Penetration Recovered Percent			
10/18/2013	15:15	0.7	5.0	3.8	76%	4.7	
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)	
PC13-47	43.54160706	-89.45213889	16	Center	10/18/2013	14:57	
Depth	(inches)			Sketch			
0 - 5 Sandy Organic grained sand						781	
	- 8 - 40	transition layer <b>Poorly Gradec</b> medium dense, reed stem (3" la	Clayey Sand (SC); dark brown, wet, very loose, high organic content with shells and peat like material, a transition layer Poorly Graded Sand (SP); light gray to tan, moist, medium dense, fine grained, trace to no fines, at 10" - reed stem (3" long), at 33" - three interbedded organic layes (1/16-inch)				
						777 SP 776	
						774	

Additional Notes:	Hg, MeHg, pH	Hg		
Sample IDs for analysis:	T16(0-6)C	(6-8)		
Sample IDs on hold:	(8-20)			
Picture #s and SWIMS ID:	239-241, 10041248	3 - Portage Canal PC13-47-MMGK	EOC	
Comments:	Core weight = 21.8	blbs., Tare = 1.6 lbs for core, caps & tap	pe 775.9	ft

Core ID = 3 inches, moved proposed MeHg to PC13-46 (more sediment)

Project Title:	Portage Canal	Sample Matrix: Sediment
Vertical Datum	NAVD88	Sampling Method: MMGK, 3-inch inner dia.
Staff Gauge Reading (ft)	1.68	Gauge Reading Time: <u>12:50</u>

Water Elevation (calc) 780.56

Logged by: STI Description, DD notes

Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)
10/18/2013	16:00	0.3	5.0	4.2	84%	2.0
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)
PC13-48	43.54156108	-89.45211342	16	Right	10/18/2013	17:15
Depth (i	nches)		Descri	ption		Sketch
0 -	4	Sandy Organic grained sand, d		black, wet, very	y soft, fine	781
4 -	8	Silty Sand (SM and pieces of pl		-	ained, roots	780
8 - 1	8 - 14 Sandy Organic Silt (OH); dark brown, moist, soft, fine grained sand, petroleum odor					779 × SM
14 -	48	Silty Sand (SM no fines	<b>/l)</b> ; tan, wet, lo	oose, fine grair	ned, trace to	ОН
						777 SM
						776
						775
						774
Additional Not	tes:	Hg, MeHg, pH	Hg			
Sample IDs fo	or analysis:	T16(0-6)C	(6-14)			
Sample IDs or	n hold:	(14-26)				
Picture #s and	d SWIMS ID:	242-244, 1004	1249 - Portage	Canal PC13-4	8-MMGK	EOC
Comments:		Core weight = 2	24.4 lbs			778.3 ft

Project Title:		Portage Canal	Portage Canal Sample Matrix: Sediment				
Vertical Datu	ım	NAVD88	Samp	ling Method:	MMGK, 3-inch	inner dia.	
Staff Gauge	Reading (ft)	1.67	Gauge Re	eading Time:	11:30		
Water Elevat	tion (calc)	780.55		Logged by:	STI Descriptio	on, DD notes	
Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)	
10/19/2013	9:00	0.5	5.0	4.0	80%	4.6	
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)	
PC13-49	43.54104487	-89.45345227	17	Left	10/19/2013	11:30	
Depth	(inches)	Description			Sketch		
0	- 12	Sandy Organic grained sand, s		-	y soft, fine	781	
12	-18	Same as above	; dark brown,	moist, soft		780	
18	- 21	Silty Sand (SI transition layer	<b>/I)</b> ; dark brown	, moist, loose,	trace clay, a	779	
Poorly Graded Sand (SP); tan, moist, medium dense,       21 - 44     fine grained, at 22" is orange coloration (possible iron oxidation)						ОН 778	
					777 <b>⊻</b> SM		
				776 <b>●</b>			

(21-33)

Additional Notes:

Sample IDs on hold:

Sample IDs for analysis:

Picture #s and SWIMS ID: 252-254, 10041250 - Portage Canal PC13-49-MMGK Core weight = 20.81 lbs, full core Hg dup.

Hg all

(0-6), (0-6)D, (6-18), (6-18)D, (18-21), (18-21)D

775.9 ft

EOC

775

774

Project Title:		Portage Canal	nal Sample Matrix: Sediment				
Vertical Datum		NAVD88	Sampling Method: MMGK, 3-inch inner dia.				
Staff Gauge	Reading (ft)	1.67	Gauge Reading Time: <u>11:30</u>				
Water Elevat	tion (calc)	780.55	-	Logged by:	STI Descriptio	on, DD notes	
Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)	
10/19/2013	8:35	0.5	5.0	5.0	100%	5.5	
Sample Location ID	Latitude (Y)	Longitude (X)	River (looking Date Transect DS) Processed			Time Processed (Military)	
PC13-50	43.54103212	-89.45342641	17	Center	10/19/2013	12:02	
Depth	(inches)		Sketch				
0	- 13	Sandy Organic grained sand, t			y soft, fine	781	
	- 24	form Poorly Gradeo fine to medium	same as above; dark brown, moist, soft, few clay, holds form Poorly Graded Sand (SP); tan, moist, medium dense, fine to medium grained, orange to red staining or mottling from 24 to 25"			779 779 0H 778 777 SP 776 775 774	
Additional N	otes:	Hg	Hg				
Sample IDs f	for analysis:	(0-6)	(12-24)				

Sample IDs on hold: (6-12), (24-36)

Picture #s and SWIMS ID:255-258, 10041251 - Portage Canal PC13-50-MMGKComments:Core weight = 25.4 lbs, lots of water on surface, sloppy

02/28/2014

ft

EOC

775.0

Project Title:		Portage Canal         Sample Matrix: Sediment					
Vertical Datum		NAVD88	Sampling Method: MMGK, 3-inch inner dia.				
Staff Gauge	Reading (ft)	1.67	Gauge Re	Gauge Reading Time: <u>11:30</u>			
Water Elevat	tion (calc)	780.55		Logged by:	STI Descriptio	n, DD notes	
Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)	
10/19/2013	9:24	0.0	5.0	4.6	92%	3.5	
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)	
PC13-51	43.54100484	-89.45337178	17	Right	10/19/2013	12:20	
Depth	(inches)		Descri	ption		Sketch	
	- 6	Sandy Organie grasses and roo Same as above					
6	- 10	dark brown, wood fragements and branches					
10	- 16	Same as above sand layers	779				
16	- 22	Poorly Gradec wet, loose, few transition layer	778				
22	- 52	Same as above no organics	777 SP				
						776	
						775	
						774	
Additional N	otes:	Hg	Hg	Hg			
Sample IDs 1	for analysis:	(0-6)	(6-16)	(16-22)			
		(22-34)					

 Picture #s and SWIMS ID:
 259-261, 10041252 - Portage Canal PC13-51-MMGK
 EOC

 Comments:
 Core weight = 26.8 lbs
 777.0
 ft

Project Title:	Portage Canal	Sample Matrix: Sediment
Vertical Datum	NAVD88	Sampling Method: MMGK, 3-inch inner dia.
Staff Gauge Reading (ft)	1.67	Gauge Reading Time: 11:30

780.55

Water Elevation (calc)

Logged by: STI Description, DD notes

Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)
10/19/2013	11:11	0.0	5.0	5.0	100%	4.6
Sample Location ID	Latitude (Y)	Longitude (looking Date Process				Time Processed (Military)
PC13-52	43.54046328	-89.45475185	18	Left	10/19/2013	14:45
Depth (	(inches)		Descri	ption		Sketch
0 -	12	Sandy Organi grained sand, r		-	y soft, fine	781
12 -	13.5	Poorly Graded grained, shells	I Sand (SP); I	prown, wet, ve	ry loose, fine	780 ОН
13.5	13.5 - 24Sandy Organic Silt (OH); brown, wet, very soft, fine grained sand, small chunks of clay, shells					779 ОН
24 - 30 <b>Poorly Graded Sand (SP)</b> ; brown gray dense, fine grained				prown gray, m	oist, medium	
30	- 40	Same as above grasses and roo	778			
40	- 55	Same as above	; tan, no orgar	nics, no stainin	g	777
						776
						775
						774
Additional No	otes:	Hg, MeHg,	pH, TOC	MeHg	Hg	Hg
Sample IDs f	or analysis:	T18(C	0-6)C	T18(0-6)CD	(12-24)	(24-36)
Sample IDs o	on hold:	(6-12), (40-52)	)			
Picture #s ar	nd SWIMS ID:	: 262-264, 10041253 - Portage Canal PC13-52-MMGK				EOC
Comments:		Core weight = 26.8 lbs, $H_2O$ surface drained but soupy.				775.9 ft

Project Title:		Portage Canal	Sample Matrix: Sediment			
Vertical Datum		NAVD88	Sampling Method: MMGK, 3-inch		inner dia.	
Staff Gauge	Reading (ft)	1.67	Gauge Re	eading Time:	11:30	
Water Elevat	tion (calc)	780.55		Logged by:	STI Descriptio	n, DD notes
Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)
10/19/2013	12:03	0.6	5.0	4.8	96%	4.6
Sample Location ID PC13-53	Latitude (Y) 43.54041850	Longitude (X) -89.45473112	Transect	River (looking DS) Center	Date Processed	Time Processed (Military) 15:14
Depth	(inches)		Descri	ntion		Sketch
24	- 16 - 24 - 52 - 54	Organic Silt (OH) to Silty Sand (SM); gray, moist, loose, trace to few clay, fine grained sand, a mixed transition layer         Poorly Graded Sand (SP); tan, moist, medium dense, a 0.5-inch thick organic layer at 37"         Peat (PT); dark gray to black, moist, soft			778 CH to YSM 777 sp- 776 PT 775	
Additional N	otes:	Hg, MeHg,	pH, TOC	МеНд	Hg	774 Hg
Sample IDs 1		T18(C		T18(0-6)CD	(6-16)	(16-24)
Sample IDs	-	(24-36)		- (		

 Picture #s and SWIMS ID:
 265-267, 10041254 - Portage Canal PC13-53-MMGK
 EOC

 Comments:
 Core weight = 26.6 lbs, wet surface.
 775.9 ft

Project Title:		Portage Canal         Sample Matrix: Sediment					
Vertical Datum		NAVD88	Sampling Method: MMGK, 3-inch inner dia.				
Staff Gauge Reading (ft)		1.67	Gauge Reading Time: <u>11:30</u>				
Water Elevat	tion (calc)	780.55		Logged by:	STI Descriptio	n, DD notes	
Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Penetration Recovered Percent			
10/19/2013	12:27	0.5	5.0	4.7	94%	4.4	
Sample Location ID	Latitude (Y)	Longitude (X)	le River (looking Date Transect DS) Processed			Time Processed (Military)	
PC13-54	43.54037375	-89.45471029	18	Right	10/19/2013	15:30	
Depth	(inches)		Descri	ption		Sketch	
0	- 2	Sandy Organio grained sand, p	• •	llack, wet, very	y soft, fine	781	
2 - 5.5		Silty Sand (SM); dark gray, moist, loose, fine grained					
5.5	- 10.5	Organic Silt (OH); dark brown, moist, very soft, few to some clay, 1.5" x 2.5" wood piece					
10.5	- 12.5	Silty Sand (SN loose, fine grain laminated organ	779 OH				
12.5	5 - 17	Sandy Organio grained sand	778				
17	- 22	Poorly Graded Sand (SP); gray to brown, moist, medium dense, interbedded organic layers					
22	- 38	Same as above; tan, fine grained, trace to no fines, no organics 776					
38 - 47 Same as above;			; strong orang	e - red staining	9		
47 - 55 Same as above; r			; no staining			775	
Additional N	otes:	Hg, MeHg,	pH, TOC	MeHg	Hg	Hg, Pb, Ps, TOC	
Sample IDs 1	for analysis:	T18(0	-6)C	T18(0-6)CD	(6-17), (17-22)	(22-34)	
Sample IDs	on hold:	none					
Picture #s a	nd SWIMS ID:	268-270, 1004	1255 - Portage	Canal PC13-5	4-MMGK	EOC	

Comments:

Core weight = 28.4 lbs

Project Title:	Portage Canal	Sample Matrix: Sediment
Vertical Datum	NAVD88	Sampling Method: MMGK, 3-inch inner dia.
Staff Gauge Reading (ft)	1.68	Gauge Reading Time: <u>14:40</u>

Water Elevation (calc) 780.56

Logged by: <u>STI Description</u>, DD notes

Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)
10/19/2013	14:53	0.2	5.0	3.5	70%	1.4
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)
PC13-55	43.53991907	-89.45600933	19	Left	10/19/2013	18:31
Depth	(inches)		Descri	ption		Sketch
0	- 5	No sample, lost	in water wher	opening core		781
5	5 - 10 <b>Poorly Graded Sand (SP)</b> ; dark gray, wet, loose, fine grained, green grasses				780 H20	
10	- 17	Sandy Organie grained sand, g				
17	- 29	Poorly Graded medium grained	779 SP			
29 -	- 33.5	Peat (PT); bla	778 ОН			
						777 SP
						776 PT
						775

#### Additional Notes:

Sample IDs for analysis: Did not sample, sampled second attempt (better recovery)				
Sample IDs on hold:				
Picture #s and SWIMS ID:	284-285	EOC		
Comments:	First attempt, Core weight = 16 lbs.	777.4	ft	

Project Title:	Portage Canal	Sample Matrix: Sediment
Vertical Datum	NAVD88	Sampling Method: MMGK, 3-inch inner dia.
Staff Gauge Reading (ft)	1.68	Gauge Reading Time: <u>14:40</u>

780.56

Water Elevation (calc)

Logged by: STI Description, DD notes

Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)	
10/19/2013	15:05	0.2	5.0	4.0	80%	1.5	
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)	
PC13-55	43.53991907	-89.45600933	19	Left	10/19/2013	16:25	
Depth	(inches)		Descri	ption		Sketch	
0	- 6	Sandy Organi snail shells on t		lark gray, wet,	very soft,	781	
6 -	- 10	Poorly Graded	d Gravel with	<b>Sand (GP)</b> ; d	ark gray,	780	
10 - 22 Sandy Organic Silt (OH); dark brown, m at 11", shells at 18"				ark brown, mo	ist, soft, rocks	ОН	
22	- 36	Poorly Graded Sand (SP); tan with slight orange - red staining from 23" to 24", moist, medium dense, medium grained, green grassess at 29"					
36	- 39	Sandy Organi	778				
39	- 44	<b>Poorly Graded</b> dense, fine grai	777 SP				
44	- 50	Peat (PT); da	rk gray to blac	k, moist, firm,	nonplastic	<u> Он</u> 776 РТ	
						775	
Additional No	otes:	Hg, Pb	Hg, Pb, Ps	Hg, Pb			
Sample IDs f	or analysis:	(0-6)	(10-22)	(36-39)			
Sample IDs o	on hold:	(6-10), (22-34), (39-44), (44-50)					
Picture #s ar	nd SWIMS ID:	: <u>271-273, 10041256 - Portage Canal PC13-55-MMGK</u>				EOC	
Comments:		Second attempt, Core Weight = 23.8 lbs				777.7 ft	

Project Title:	Portage Canal	Sample
Vertical Datum	NAVD88	Sampling M

1.68

780.56

Matrix: Sediment

Method: MMGK, 3-inch inner dia.

Staff Gauge Reading (ft)

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Gauge Reading Time: 16:00

Water Elevation (calc) 

Logged by: STI Description, DD notes

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Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)
10/19/2013	15:21	0.6	5.0	4.0	80%	2.3
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)
PC13-56	43.53987268	-89.45598677	19	Center	10/19/2013	17:00
Depth (	inches)		Descri	ption		Sketch
0 -	11	Sandy Organi grained, trace g			y loose, fine	781
11 -	- 19	Lean Clay (CL plasticity, petro		ery soft, few s	and, low	780
19 -	- 23	Poorly Graded	I Sand (SP); I	olack, moist, lo	oose, fine	770
23 -	- 27	<b>Poorly Graded</b> moist, loose, pe		Sand (GP);	dark gray,	779 🗙 ОН
27 -	- 48	Lean Clay (CL petroleum odor	778 CL			
						777 SP GP
						776
						775
						774
Additional No	o <u>tes</u> :	Hg, PAH	Hg, Pl	o, PAH	Hg, Pb	Hg, Pb, PAH
Sample IDs for	or analysis:	(0-6)	(6-11), (11-	19), (19-23)	(27-39)	(39-48)
Sample IDs o	n hold:					
Picture #s an	d SWIMS ID:	: 274-276, 10041257 - Portage Canal PC13-56-MMGK				EOC
Comments:		Wet surface, Core weight = 22.6 lbs				775.0

Project Title:	Portage Canal	Sample Matrix: Sediment
Vertical Datum	NAVD88	Sampling Method: MMGK, 3-inch inner dia.

1.68

780.56

Gauge Reading Time: 16:00

Staff Gauge Reading (ft) Water Elevation (calc)

Logged by: STI Description, DD notes

Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)	
10/19/2013	15:36	0.4	5.0	4.2	84%	1.6	
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)	
PC13-57S	43.53982848	-89.45596396	19	Right	10/19/2013	17:38	
Depth	(inches)		Descri	ption		Sketch	
0	- 11	Sandy Organic coarse gained s		•	soft, fine to	781	
11	- 14		Same as above; brown, wet, soft, fine grained sand, proken glass, green plant material				
14 - 34		Same as above; moist to wet, few clay, 1/2-inch thick black organic layer at 33"					
34 - 44		Poorly Graded Sand (SP); tan, wet, medium dense, fine grained, coarse grained from 36" to 39"					
44	- 47	Peat (PT); black with orange staining, moist, soft, green 778					
47	- 50	Sandy Silty Cl hard, fine grain	777				
						776 SP PT	
			775				
Additional N	otes:	Hg	Hg	Hg			
Sample IDs f	for analysis:	(0-6)	(11-22)	(22-34)			
Sample IDs	on hold:	(6-11), (34-44)					
Picture #s a	nd SWIMS ID:	: 277-279, 10039753 - Portage Canal PC-13-SE01 Bank EOC				EOC	
Comments:		resampling PC13-SE01 (within 2 ft), Core weight = 23.8 lbs 776.5 ft					

Project Title: Vertical Datum Staff Gauge Reading (ft)		Portage Canal	Sample Matrix:         Sediment				
		NAVD88 Sampling Method: MMGK, 3-i			MMGK, 3-inch	ich inner dia.	
		1.67 Gauge Reading Time: 7:50					
Water Elevat	tion (calc)	780.55		Logged by:	STI Descriptio	n, MM notes	
Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)	
10/17/2013	10:45	1.1	5.0	3.8	76%	2.5	
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)	
PC13-58S	43.54873481	-89.44297610	-	-	10/17/2013	13:57	
Depth	(inches)		Descri	ption		Sketch	
0	- 3	Sandy Organic grained sand, d		black, wet, very	y soft, fine	781	
3 - 5		Same as above	780				
5	- 33	Same as above; dark brown, moist, few to trace clay 779 779					
33	- 44	Poorly Graded medium dense,			n, moist,	778	
						ОН 777	
						776	
						775 SP	
						774	
Additional N	otes:	Hg	Hg				
Sample IDs	for analysis:	(0-9)	(21-33)				
Sample IDs	on hold:	(9-21), (33-44)	)				
Picture #s and SWIMS ID: 181-183, 10039740 - Portage Canal PC-13-W03 Bank					EOC		

Comments:

resampling PC13-W03, GPS assumed at PC13-W03, placed stake.

ft

775.5

Project Title:		Portage Canal	Sa	mple Matrix:	Sediment		
Vertical Datum		NAVD88	Sampling Method:				
Staff Gauge Reading (ft)			Gauge Reading Time:				
Water Elevat	ion (calc)	778.88		Logged by:			
Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)	
10/16/2013							
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)	
PC13-59S							
Depth	(inches)		Descri	ption		Sketch	
		elevation th	an the 2004 co	ore in same cro	iss section.		
Additional No	otes:						
Sample IDs f	for analysis:						
Sample IDs o							
	nd SWIMS ID:						
Comments:		previous location	on PC13-E04				

Project Title:		Portage Canal	Sa	mple Matrix:	Sediment		
- Vertical Datu		NAVD88					
Staff Gauge	Reading (ft)		Gauge Reading Time:				
Water Elevat	ion (calc)	778.88		Logged by:			
Date Collected	Time Collected (military)	Water Depth (ft)	CoreSedimentPenetrationRecoveredPercent(ft)(ft)Recovery			Poling Depth (ft)	
10/16/2013							
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)	
PC13-60S							
Depth	(inches)		Descri	-		Sketch	
		elevation th	an the 2004 co	ore in same cro	iss section.		
Additional No	otes:						
Sample IDs f	or analysis:						
Sample IDs of	on hold:						
Picture #s ar	nd SWIMS ID:						
Comments:		previous location PC13-E05					

Project Title:	Portage Canal	Sample Matri
Vertical Datum	NAVD88	Sampling Metho

780.56

x: Sediment

Staff Gauge Reading (ft) 1.68 Sampling Method: MMGK, 3-inch inner dia.

Gauge Reading Time: 14:40

Water Elevation (calc) 

r

Logged by: STI Description, DD notes

Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)
10/19/2013	14:29	0.5	5.0	4.4	88%	1.2
Sample Location ID	Latitude (Y)	Longitude River (looking Date (X) Transect DS) Processed			Time Processed (Military)	
PC13-61S	43.54002800	) -89.45545690 10/19/2013 18:10				18:10
Depth	(inches)		Descri	ption		Sketch
0	- 5	Sandy Organio grained sand	<b>c Silt (OH)</b> ;	lack, wet, very	y soft, fine	781
5 -	- 16	Poorly Gradec (OH); brown v loose, fine grain organics	vith orange sta	ining at 12" ar	nd 15", moist,	780 ОН
16	- 22	Sandy Silty Clay (CL); brown to dark brown, moist, soft				
22	- 28	Poorly Graded Sand (SP); gray with a orange tint, moist, medium dense, medium grained				
28	- 36	Poorly Gradec black, moist, m interbedded wit	edium dense,	sand and peat	are	777 SP 777 to v SP
36	- 52	<b>Poorly Gradec</b> dense, fine grai layer at 41"				776
						775
						774
Additional No	otes:	Hg	Hg	Hg		
Sample IDs f	or analysis:	(0-6)	(16-22)	(28-36)		
Sample IDs o	on hold:	(6-16), (22-28)	, (36-48)			
Picture #s ar	nd SWIMS ID:	280-283, 1003	9754 - Portage	Canal PC-13-	SE-02 Bank	
Comments:		resampling PC1	3-SE02, GPS a	ssumed at PC	13-W03, place	d EOC
		stake. Core we	eight = 26 lbs.			777.6 ft

Project Title:	Portage Canal	Sample Matrix: Sediment
Vertical Datum	NAVD88	Sampling Method: MMGK, 3-inch inner dia.

1.68

780.56

Gauge Reading Time: 14:30

Staff Gauge Reading (ft) Water Elevation (calc)

Logged by: STI Description, MM notes

Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)
10/17/2013	11:23	2.5	5.0	3.9	78%	5.4
Sample Location ID	Latitude (Y)	Longitude River (looking Date (X) Transect DS) Processed		Time Processed (Military)		
PC13-62S	43.55394583	-89.43952630	-	-	10/17/2013	2:19
Depth	(inches)		Descri	ption		Sketch
0	- 15	Sandy Organio grained sand, v			y soft, fine	781
15	- 30	Poorly Graded dense, few fine		ight gray, wet,	medium	780
30	- 35	Silty Sand (SN clay	<b>/I)</b> ; brown, mo	ist, fine graine	d sand, little	779
35 - 43       Poorly Graded Sand (SP); light gray, wet, medium         4       4         4				7777 ОН 7776 У 7775 SP 7774 SP 7773		
Additional N	otes:	Hg	Hg			
Sample IDs 1	for analysis:	(0-15)	(30-35)			
Sample IDs	on hold:	(15-30)				
Picture #s a	nd SWIMS ID:	184-186, 1131	20 - "Portage (	Canal - Portage	e Canal"	EOC
Comments:		resampling PC4	200, GPS assu	imed at PC420	0, placed stak	e 775.2 ft

Project Title:		Portage Canal	Sa	mple Matrix:	Sediment	
Vertical Datu	ım	NAVD88	NAVD88 Sampling Method:			
Staff Gauge I	Reading (ft)		Gauge Re	eading Time:		
Water Elevat	ion (calc)	778.88		Logged by:		
Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)
10/17/2013						
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)
PC13-63S						
Depth	(inches)		Descri	ption		Sketch
		indicated an ur	nt whereas loc nquntified sedin hein poled 9' o 100	ment thickness f soft sedimen	s. Jim Killian	
Additional No	otes:					
Sample IDs f	for analysis:					
Sample IDs o	on hold:					
Picture #s ar	nd SWIMS ID:					
Comments:		previous locatio	on PC5100			

Project Title	:	Portage Canal	Sa	mple Matrix:	Sediment			
Vertical Datu	ım	NAVD88	Sampling Method: HC					
S. Gauge Read	ling (ft) (Fox)	0.56	Gauge Reading Time: <u>15:10</u>					
Water Elevat	tion (calc)	776.30		Logged by:	STI Descriptio	on, MM notes		
Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Poling Depth (ft)				
10/15/2013	15:25	1.8	3.7	1.5	41%	-		
Sample Location ID	Latitude (Y)	Longitude (X)					Time Processed (Military)	
PC13-64	43.56013216	-89.43529147	-	-	10/17/2013	11:00		
Depth	Depth (inches) Description			Sketch				
0	- 3	Sandy Organic and detritus	<b>c Silt (OH)</b> ; b	lack, wet, very	y soft, leaves	777		
3	- 7	Poorly Graded			e, trace fines,		_	
7	- 13	Sandy Organio of wood	c Silt (OH); d	lark gray, wet,	loose, pieces	776		
13	- 18	Clayey Sand(	( <b>SC)</b> ; brown, v	vet, loose, little	e organics	-775		
				ОН 774 УР ОН				
						773 SC		
						772		

<b>Additional</b>	Notes:	

Sample IDs for analysis:

Sample IDs on hold:

Picture #s and SWIMS ID: 163, 10041305 - Portage Canal - PC13-64-HC

Comments:

Inman/Graham hand core just downstream of lock.

Hg, Pb

(0-6)D

Hg, Pb

(6-18)

Hg, Pb

(6-18)D

Hg, Pb

(0-6)

Project Title	:	Portage Canal	Sa	mple Matrix:	Sediment	
Vertical Datu	ım	NAVD88	Samp	ling Method:	НС	
S. Gauge Read	ling (ft) (Fox)	0.56	Gauge Re	eading Time:	15:10	
Water Elevat	tion (calc)	776.30		Logged by:	STI Descriptio	n, MM notes
Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)
10/15/2013	15:14	1.5	1.7	0.7	40%	-
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)
PC13-65	43.56024616	-89.43422933	-	-	10/17/2013	11:30
Depth	(inches)		Descri	ption		Sketch
	- 8		andy Organic Silt (OH); black, wet, very soft, few to tle sand, fine to medium grained sand, 7 			
Additional No	otes:	Hg, Pb				772
Sample IDs 1		(0-8)				
Sample IDs of	-					
Picture #s and SWIMS ID:		164, 10041307	- Portage Can	al - PC13-65-F	łC	

Comments:

Inman & Graham hand core upstream in Fox (Reference Location)

Project Titles Vertical Datu S. Gauge Read Water Elevat Date Collected	ım ling (ft) (Fox)	Portage Canal NAVD88 0.56 776.30 Water Depth (ft)	Sample Matrix: Sediment Sampling Method: HC Gauge Reading Time: 15:10 Logged by: STI Description Core Penetration (ft) Sediment Recovered (ft) Percent Recovered (ft) 0.0			n, MM notes Poling Depth (ft)
10/15/2013	15:55	1.2	1.1	0.9 River	84%	- Time
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	(looking DS)	Date Processed	Processed (Military)
PC13-66	43.56072886	-89.43477115	-	-	10/17/2013	12:30
Depth	(inches)	Description			S	ketch
0	- 4		nic Silt (OH); chunks,	leaves		777
4	- 6	Poorly Graded wet, very loose		ilt (SP-SM); c	lark gray,	
6	- 11	Sandy Organic sand, 1/2-inch			fine grained	776
						775 ОН - <del>SP-</del> - <del>SM</del> - ОН
						774
						773
Additional No	otes:	Hg, Pb				
Sample IDs 1	for analysis:	(0-11)				

Sample IDs on hold:

Picture #s and SWIMS ID: 165, 10041308 - Portage Canal - PC13-66-HC

Comments:

Project Title:	:	Portage Canal	Sa	mple Matrix:	Sediment		
Vertical Datum		NAVD88	NAVD88 Sampling Method: HC				
S. Gauge Read	ling (ft) (Fox)	0.56	Gauge Reading Time: <u>15:10</u>				
Water Elevat	tion (calc)	776.30		Logged by:	STI Descriptio	n, MM notes	
Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)	
10/15/2013	16:10	1.5	2.4	1.5	63%	0.0	
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)	
PC13-67	43.56123749	-89.43475827	-	-	10/17/2013	14:45	
Depth	(inches)		Descri	ption		Sketch	
0	- 8	Sandy Organio detritus	<b>c Silt (OH)</b> ; c	lark brown, we	t, loose,	777	
8	- 16	Poorly Graded					
16	- 19	Same as above	776				
					775 774 SP \$ 773		
Additional No	otes:	Hg, Pb	Hg, Pb				
Sample IDs f	for analysis:	(0-8)	(16-19)				
Sample IDs of	on hold:	none					
Picture #s a	nd SWIMS ID:	187-188, 1004	1309 - Portage	Canal - PC13-	67-HC		

Comments:

Inman/Graham hand core downstream in Fox River

Project Title:		Portage Canal	e Canal Sample Matrix: Sediment				
Vertical Datu	ım	NAVD88	Sampling Method: MMGK, 3-inch inner dia.				
Staff Gauge	Reading (ft)	1.68	Gauge Re	eading Time:	14:30		
Water Elevat	tion (calc)	780.56		Logged by:	STI Descriptio	n, MM notes	
Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Penetration Recovered Percent			
10/17/2013	11:57	3.0	5 x 2	2, 1.5	32, 37	9.0	
Sample Location ID	Latitude (Y)	Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)	
PC13-100	43.55756519	-89.43726512	-	-	10/17/2013	15:15	
Depth (inches)			Sketch				
0	- 19	Organic Silt ( (first core)	<b>Organic Silt (OH)</b> ; black, wet, very soft, duckweed (first core)				
19	- 60	no sample, poo	r recovery				
60	- 104	no sample, poo	r recovery				
104	- 110	Silty Sand (SN	<b>/);</b> gray, wet,	loose			
110 - 117 same as above,			, medium dens	е			
117 - 120 San		Sandy Lean C	l <b>ay (CL)</b> ; dark	c gray, wet, so	ft, little silt		

Additional Notes:

Sample IDs for analysis: No samples, refer to PC13-100MMG (w/o core catcher) for samples.

Sample IDs on hold:

Picture #s and SWIMS ID: 192, 223,

Comments:

Log is from two 5-ft pushes. Poor recovery, depth intervals may

not represent actual conditions.

Project Title:	Portage Canal	Sample Matrix: Sediment
Vertical Datum	NAVD88	Sampling Method: MMG
Staff Gauge Reading (ft)	1.68	Gauge Reading Time: <u>14:30</u>
Water Elevation (calc)	780.56	Logged by: STI Description, MM notes

Date Collected	Time Collected (military)	Water Depth (ft)	Core Penetration (ft)	Sediment Recovered (ft)	Percent Recovery	Poling Depth (ft)
10/17/2013	12:15	3.0	0-5	4.0	80%	9.0
Date Collected	Time Collected (military)	Core Dia. (Inches)	Core Penetration (ft)	Sediment Recovered (ft)	% Recovery	Poling Depth (ft)
10/17/2013	12:45	1.5	5-10	3.8	76%	same
Sample Location ID	Actual Latitude (Y)	Actual Longitude (X)	Transect	River (looking DS)	Date Processed	Time Processed (Military)
PC13-100	43.55756519	-89.43726512	-	-	10/17/2013	14:55
Depth (inches)			Sketch			
		Sandy Organic Silt (OH); black to dark brown, moist, soft, duckweed to 4", wood pieces at 6"				781
30 - 46 Same as		Same as above	as above; grayer, firm			779
46	46 - 79 Same as above, firm to sitff		777			
79 - 86		<b>Poorly Graded Sand (SP)</b> ; gray, moist, fine grained, trace fines				775 774 <sup>OH</sup>
						773
						771 SP 770

Additional Notes:

Hg, Pb

Sample IDs for analysis:	12), (12-24), (24-36), (36-46), (46-70), (70-		
Picture #s:	189-191, 193-195, 0-5' = 10041304 - PORTAGE CANAL-PC13-100-MMG		
SWIMS ID:	5-10' = 10041310 - PORTAGE CANAL-PC13-100-MMG-5		
Comments:	This is a second attempt based on poor recovery with core catcher. This		
	log is two cores, the 0-5' sample is a 3" dia. 5-10', is a 1.5" dia core.		