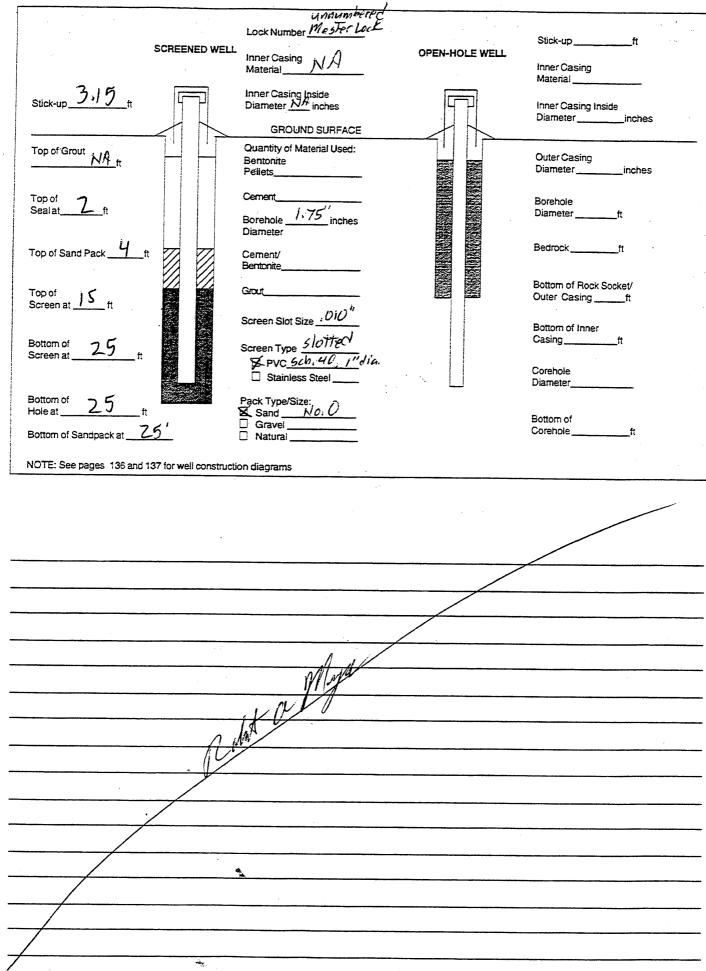
# Direct Push Technology (DPT) Bore Logs From The Georgia Pacific/New York State Canal Corporation Site

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#### Borehole Record for GBGPOI

- HTRW Drilling Log
- Narrative Lithologic Description and Well Construction Diagram
- Well Development Record
- Well Development -- Parameter Measurements
- Groundwater Purge and Sampling Log
- Investigation Derived Waste Inventory Sheet

Kanso	5 (ity			Hole Number
Subcontractor	1. 4. +	11: 1: 1		Sheet Sheet
	10/145/6/	Geelogic.	Inc.	1 of 8
Siting	4. Location	reenwich	, NP	
	6. Manufacture	r's Designation of		be 5400
acro-core	8. Hole Locatio	of ato un'		
rups and	9. Surface Elev	ation	usi at quesen	(KINC)
Sampling	10. Date Starter	d	11. Date Comple	eted
			6.6 BG	
	16. Depth to Wa	ater and Elapsed T	ime After Drilling Co	mpleted
	17. Other Water	Level Manageme	nts (Specify)	
	Undisturbed		19 Total Number	of Core Boyes
<del></del>			/\	1.A
letals	5 V O C			21. Total Core Recovery NA%
	Other (Specify)	23. Signature	of Inspector	
Consolidity)	1			
: : :	17:1	SOALE.	N13	
1.0/	/	\	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
W GOI A	<b>-</b>		-/ N	
CPS-	CPNL			
<u>, 4</u>	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
/ 1	/			
7.8		8		
15 K		9		
././				
N				
N				
		<b>\</b>		
cility ;		1	10.GP-GPC	
	Subcontractor  Siting  Sucro-core  dis with  rurs and  sampling  onitoring Well  composity	Subcontractor Northstar  6. Manufacture  6. Manufacture  6. Manufacture  7. Corc 8. Hole Location  7. North and  7. Corc 9. Surface Elev  7. Sumpling  10. Date Starter  15. Depth Grou  16. Depth to Wa  6.65  17. Other Water  Undisturbed  Undisturbed  Other (Specify)  SVOC  Onitoring Well  Other (Specify)  CMPORTY	Subcontractor  Northstar/Geelogic  5. Ting  4. Location  Genuic V  6. Manufacturer's Designation of  10. To core  8. Hole Location  North and of 5.7, 40 of  10. Date Started  10. Date Started  10. Date Started  11. Depth to Water and Elapsed T  11. Other Water Level Manageme  Undisturbed  11. Other (Specify)  SUCC POST/PCC  Onitoring Well  Other (Specify)  SCALE:	Subcontractor  Northstar Geelogic Inc.  5, ting  4. Location Geenwich, NY  6. Manufacturer's Designation of Drill Geopeo.  10 Geopeo.  10 Jecopeo.  10 Jecopeo.  11. Date Comple.  12. Depth Groundwater Encountered  13. Depth Groundwater Encountered  14. Location Geopeo.  15. Depth Groundwater Encountered  16. Depth to Water and Elapsed Time After Drilling Completed.  16. Depth to Water and Elapsed Time After Drilling Completed.  17. Other Water Level Managements (Specify)  17. Other Water Level Managements (Specify)  19. Total Number Sylving Sylving Sylving Sylving States of Inspector Geopeo.  19. Total Number Sylving Sylving States of Inspector Geopeo.  19. Total Number Sylving Sylving States of Inspector Geopeo.  19. Total Number Sylving States of Inspector Geopeo.



oject Hu	dson Fai	LING LOG (Continuity 5, ting inspector		a Meren	·	entermore de la companya de la comp	Hole Number GP-GPO/ Sheet Sheets 3 of 8
evation (A)	Depth (B)	Description of Materials (C)	Field Screening Results (D)	Geotech Sample or Core Box No. (E)	Analytical Sample No. (F)	Blow Count	T
	0 =	0'to4' Fill	FID Unless noted	NA		NA	
	i —		O. Hppm FID				4 Run 1,4 Rec
	2						1,9° Rec.
-	3 =						
	4-	11'+\~ 56' —					
		Ū' to≈ 5.5' — F;II				~-	
	5 —	5.5' +08'	HOpgon FID  I ppm PID	`			H'Run 3.4 Rec
THE RESERVE THE PROPERTY OF TH	6 =	5.5' +08' ML	1 ppm PID	-			water@
	, =	9					6.6'065
	7 =						
JECT /	8 = Hudson	Facility Siti	na	F	IOLE NO. G	P-GP	0
	HUDSON 56A-R, AUG 94	Facility Siti	ักg B-192	ŀ	IOLE NO. G	·	O O Onent: CECW-EG)

Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION		loistu Conte	nt
			Molst	Wet
	O'to 4', Fill Material, Ash/Cinders and decomposing Wood shavings with Some Silt, VF to Coasse Sund and Fine to med. pebbles,	1	Ø	0
	Wood Shavings with Some Silt, VF to Cocise	0	P	
	sund and time to med. pebbles,	0	P	0
		0	P	0
		0	P	0
		0	P	0
		0	P	
		0	P	0
-		$\circ$	P	0
-		0	P	0
-		0	P	0
		0	φ	0
		$\bigcirc$	φ	0
		0	Φ.	0
	4'to 5,5' Fill as above.	0	8	0
		0	P	0
		0	9	0
		0	9	0
	5,5' tob', Clayey light gray bilt with little	0	φ	
	VF Sund, slightly plastic.	0	φ	0
	Water @ 6.6' Bbs	0	φ	
		O	R	
		0	Ø	Ø
	•	0	0	8
		0	0	φ
	·	0	0	$\phi$
		0	0	$ \phi $
		0	0	$ \phi $
	·	0	0	$\phi$
		0	0	8
	B-193			

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HTRW DRILLING LOG (Continuation Sheet)  Project Hudson Facility Siting Inspector Robert a Mycre									
levation	Depth	Description of Materials	Field Screening Results	Geotech Sample or Core Box No.	Analytical	Blow Count			
(A)	(B)	(C)	(D)	or Core Box No. (E)	Sample No. (F)	(G)	(H)		
	8 =	8'+0 12'	7 Diam ETD	NA		NA			
		F:11/5M	20ppm FID = 2ppm PID	t .		, ,			
	1 1		Co Zapon 120				da a		
	9 =						4'RUM 3.8'REC		
j		·		,			3.5 Rec		
				·		venue de la companya			
	10=		V						
		_	65 ppm FID 215 ppm PID		09006	<i>leit</i>			
			65 PPM PID	G	25-GP01- 101 10'te	5B			
			215ppm 1	F	iom 10'to	121865			
	11—								
	12			4	-				
	· =	12'+016' Fill/SM							
		F:11/5M	-				4'Run		
	,, =						2.9' REC		
	13 =		32ppm FID						
			32ppm FID bppm PID	٠,					
			offm 1 00						
	14								
	15	•			- And Andrews				
	15	,							
					-				
	16 =								
DJECT	Hudson	Facility 5)	ting	H	IOLE NO.	-P- <i>G-F</i>	01		

Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION		Aoist. Conte	ent
		Dry	Moist	Wet
	8' to 12', Wet, Gray silt and VF to Fine sund with decomposing wood shavings,	0	0	Ø
-	with decomposing wood shavings,		0	P
			0	ф
		0	0	9
			0	9
			0	φ
			0	9
		10	0	φ
-		0	0	Φ
		0	0	$\Phi$
		0	0	Ψ
			0	$\Psi$
			0	φ
(			0	Ψ
	17/1 1/1 (11) 1/5/1 \( \tau \)		0	Ψ
	12' to 16', Silty VF to Fine Sand and wood shavings as above		$\circ$	<b>B</b>
	3 na Vings as a bove	0	0	φ
			0	$\mathcal{L}$
		0		$\mathcal{A}$
		0	0	7
-		0	0	7
			$\mathcal{O}$	7
	•		$\circ$	7
			)	$\mathcal{L}$
			$\mathcal{C}$	7
		)		7
-				7
			$\sim$	4
-			$\circ$	M.
-	R_195		$\circ$	<b>W</b>

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		LING LOG (Conting Inspector		, 2011			Hole Number  GP-GTO  Sheet She
ation A)	Depth (B)	Description of Materials (C)	Field Screening Results (D)	Geotech Sample or Core Box No. (E)	Analytical Sample No. (F)	Blow Count (G)	7 of 8 Remarks (H)
	<i>i</i> 6 =	16' to 201	1	ΝΑ		NA	
		16' to 20' Fill /5M	26 FTD	/ 4/ ]		-	
	77	4111/3/11	26ppm FID 0.2pm PID				4 Run 2.7 Rec
			0.20				2.7 Rec
on the second se	13 =				:		
		•	• •	<b>₹</b> .			
	19 =				<u> </u>		r.
	. ===						
	20=	- 1 (-1)	V	and the second s			_
		20' to4'					4'Run
		5 M	~1700 FID		, , , , , , , , , , , , , , , , , , ,		4'Run 3,3'Rec
	21-	٠. ٠	0.3pm PID		2		
			1				
	22—			•			
		•					
	23 —						
manara un ser mare	24 <u>=</u>	- 24' to 25'	\ \frac{\psi}{2} = \frac{1}{2}				- 1'Run
	25 =	5M	CAPM FID OAPM PID				0,49'RE
JECT	<del></del>	Facility Siting			HOLE NO.	P-GI	POI
	056A-R, AUG 9		B-196	}			ponent: CECW

Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION	(	Aoisti. Conte	
		Dry	Molst	Wet
•	16' to 18.7', Silt/sund and wood shavings as above	0	0	8
		0	0	þ
		0	0	ф
-		0	0	P
			0	9
			0	9
-		0	0	9
	147'+070' VE + 500 / 1 MI 200 //L	0	0	$\mathcal{P}$
-	18.7' to 20', VF to fine Sand with 25% 51/t,	0	0	$\mathcal{P}$
	No Fill (Natural)	0	$\circ$	$\mathcal{L}$
		$\circ$	$\circ$	$\mathcal{L}$
		_	0	$\mathcal{L}$
-		_	0	$\mathcal{I}$
7.0	to 24', VF to Fine sand with few silt	0	$\circ$	7
	21, VI TO THE SAME WITH JEW 51/7	$\bigcirc$		$\mathcal{I}$
		$\bigcirc$		$ \mathcal{X} $
-		$\bigcirc$		$\prod$
		$\bigcirc$		$\varphi$
		O (		$\frac{1}{4}$
		$\bigcirc$ (		7
		$\bigcirc$ (		7
		) (		7
	•	$\bigcirc$ (		7
		0 (		$\frac{1}{4}$
		_		7
1	24'to 24.9', Same as above	) (	) (	
		- ·	- · ) (	$\int$
	Refusac	- O (	- - 	$\int$
2		0 (	C	1
	B.O.H@ 25'B65			

### Borehole Record for GB-GP02

- HTRW Drilling Log
- Narrative Lithologic Description and Well Construction Diagram
- Well Development Record
- Well Development -- Parameter Measurements
- Groundwater Purge and Sampling Log
- Investigation Derived Waste Inventory Sheet

ENG FORM 5056-R, AUG 94

Hudson Superture Facility Siting

(Proponent: CECW-EG)

HOLE NO. GPS-GPOZ

	horod		
	Lock Number Master lact	• •	•
SCREENED WELL	•	OPEN-HOLE WELL	Stick-upft
	Inner Casing NA Material		Inner Casing Material
	Inner Casing Inside		
Stick-up 2,5 ft	Diameter NA inches	1471	Inner Casing Inside Diameterinches
	GROUND SURFACE		
Top of Grout	Quantity of Material Used: Bentonite		Outer Casing
Sand 0.5' to Surtace	Pellets		Diameterinches
	Cement		Borehole
Top of Seal at O. 5 ft	Borehole 1175 inches		Diameterft
7	Diameter		Bedrockft
Top of Sand Packft	Cement/ Bentonite		,
	Grout		Bottom of Rock Socket/
Top of 4.3 ft			Outer Casingft
	Screen Slot Size 1010"		Bottom of Inner Casingft
Bottom of 9,3 ft	Screen Type <u>Slotted</u> X PVC <u>5ch. 40, i"dia.</u>		Сазнуп
Solder at 1	Stainless Steel		Corehole Diameter
Rettom of C 2		<u></u>	Old (Tett)
Bottom of 9,3 ft	Pack Type/Size:		Bottom of
Bottom of Sandpack at 9,3'865	Gravel		Coreholeft
NOTE: See pages 136 and 137 for well construc	tion dingrams		
HOTE. GEE pages 150 and 157 for wen constitut	wo., diagrams		
	Λ		
	MINA		
	1 NA		
XLD			

		LING LOG (Contin					Hole Number GPS-GPOC
roject Hud	son Facili	ly siting Inspector	"Ratest a	Myou			Sheet Sheet 3 of 5
Elevation (A)	Depth (B)	Description of Materials (C)	Field Screening Results (D)	Geotech Sample or Core Box No. (E)	Analytical Sample No. (F)	Blow Count (G)	}
		o' to 4' Fill	FID Unless Noted M	NA		NA	4' Run 3.1'Rec
	2		Oppnin BZ				
	<i>Ц</i>	4'to 8' ML 4 Fill					- H'Run
	β — — — — — — — — — — — — — — — — — — —						3.5 REC
				Co GP	1760 Hect Samp 3-GP0Z 7' +o 9'	.le -5B	Water@ =7'1365
ROJECT	Hudson	Facility Siting	a	<b>I</b>	HOLE NO.	PS- (T	PUT

Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION		Moistu Conte	ent
		Dry	Molst	Wet
	0'to4', 30,2' Silt loam Topsoil.		. 0	0
	0.2' to H' black Fill Material (Cinders)  Sitt to and VF to coarse Sand Sized parties  with angular fine to med. pebble sized	Φ	0	0
	Sitt to and VF to coarse Sand Sized parties	19	0	0
	with angular fine to med. pebble sized	10	0	0
	particles.	φ	0	0
		φ	0	0
		φ	0	0
		ф	0	
		ф	0	0
		ф	0	0
		ф	0	
		ф	0	0
		ф	0	0
	·	ф	0	0
	4 to B' Fill Material as above with Silt and trace fine pebbles from 4.4 to 6.1 BGs.	þ	0	
	fine pebbles from 4.4' to 6.1'BGS.	þ	0	0
		þ	0	0
		b	0	
	·	ф	0	0
		*	0	0
		Ø	0	0
		0	8	0
		0	8	0
			8	
-		0	Ø	0
	Water @ 7'BG5		0	Ø
			0	
				Ø
-			0	
			0	

		lity siting	(Continua Inspector		Muse		· · · · · · · · · · · · · · · · · · ·	Hole Number GFG-GFC Sheet She 5 of <b>6</b>
levation (A)	Depth (B)	Description of Ma	terials	Field Screening Results (D)	Geotech Sample or Core Box No. (E)	Analytical Sample No. (F)	Blow Count (G)	Remarks (H)
		3'+09.1° 5M/CL		Oppmin 152450.1	NA	5ee Page 3 cf 6	NA	1.3'Run [.3'Rec.
		9.1' to 9.3 Weathered 5 Shate Bedson @ 9.3' B	hole K Renu	ક્લ				Refracil 893' BCS
recording to the control of the cont	10 — — —————————————————————————————————							
	// — = = =							
	12 ====================================							
	13 — — —							
	14 -						·	
	ji =	Facility Si	1:		]1	HOLE NO.	-PG-/-	P07

Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION		Moist Cont	ent
		Dry	Molst	Wet
	B' to 8.7', light brown silt & VF Sand with trace clay,	0	0	Ø
			0	Ø
	B.7'to 9.1', Silty light brown CLAY, Wet/Contining layer	0	0	Ø
	9.1' to 9.3', Weathered dark gray shall, DRY Netusal @ 9.3' B6-5		. 0	0
	Retusal @ 9.3'86-5	0	0	0
			0	0
	B.O.H@ 9.3'B65		0	0
		0	0	0
			0	0
		0	0	0
		0	0	0
		0	0	0
		0	0	0
		0	O	
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	R-205	0 (	<i>ا</i> ر	

## Borehole Record for GPS-GP03

- HTRW Drilling Log
- Narrative Lithologic Description and Well Construction Diagram
- Well Development Record
- Well Development -- Parameter Measurements
- Groundwater Purge and Sampling Log
- Investigation Derived Waste Inventory Sheet

HTRW DRILLING	a LOG	trict Kausa	15 City			31 AUG 9 Hole Number CPS-CFO3
1. Company Name Ecology & Environ m	ent Inc.			16-eo logi		Sheet Sheets
3. Project Hudson Super		ty Siting	4. Location	160 logi	1 NY	
P N	Bwell	<del>//</del>	6. Manufacturer	s Designation of Dri	"Geoprabe	5400
7. Sizes and Types of Drilling and Sampling Equipment	1.75"OD	beoprobe	8. Hole Location	(entral) of site,		
		ate sheeves	9. Surface Eleva	ion jor since	700711 0	M. 10 1
			10. Date Started	1-8-03	11. Date Complete	ed 3
12. Overburden Thickness > Z	2-5,5			dwater Encountered		<u>/</u>
13. Depth Drilled Into Rock			16. Depth to Wate	er and Elapsed Time	After Drilling Com	pleted
14. Total Depth of Hole 25;	<u>'</u> .5'			evel Managements		
18. Geological Samples	Disturbed		Undisturbed		19. Total Number of	of Core Boxes
20. Samples For Chemical Analysis	voc V	Metais	Other (Specify)	Other (Specify)		21. Total Core
21. Disposition of Hole	Backfilled	Monitoring Well	Other (Specify)	Pest / POB 5 23. Signature of Ir	rspector	Recovery Ny %
LOCATION SKETCH/COMMEN	ITS	Temporry		SCALE:	Ox Mayer NTS	
		<b>7</b> N				
		///				
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<u> </u>					
Hudson						
River						
			6_GP03			
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		01	5-6703 1			
N. A.	20		7			
PROJECT Hudson Supe		Hy Siting	/	HOLE NO	GP5-GP0	<del></del>

	Lock Number Magter Lock		
	Lock Number Mayter Lock		
SCREENED WELL	. '	OPEN-HOLE WELL	Stick-upft
	Inner Casing	OPEN-ROLE WELL	Inner Casing
	Material /V//		Material
7 05	Inner Casing Inside		
Stick-up 2,05 it	Diameter NA inches	[4구]	Inner Casing Inside
	GROUND SURFACE	ИЦ	Diameterinches
Top of Grout NA ft	Quantity of Material Used: Bentonite		Outer Casing
ft	Pellets		Diameterinches
Sand z' to surface			
Top of Seal at 2 ft	Cernent		Borehole
Sealatft	Borehole 1175 inches		Diameterft
	Diameter		
Top of Sand Pack 4 tt	Cement/		Bedrockft
Top or Sand Pack	Bentonite		
			Bottom of Rock Socket/
Top of 15 6	Grout		Outer Casingft
Top of Screen at 15, 5 ft	0104		•
	Screen Slot Size 1010 4		Bottom of Inner
Bottom of 765'	some statted		Casingft
Bottom of 25:5 ft	Screen Type Stotled PPVC Sch.40, i"dia.		
	☐ Stainless Steel		Corehole
			Diameter
Bottom of 25,5 ft	Pack Type/Size:  Sand No: O		
	Sand N.D. C		Bottom of
Bottom of Sandpack at 25.5	Natural		Coreholeft
NOTE: See pages 136 and 137 for well construct	tion diagrams		
	N/1/2000		
	1119		
. 1	IN		
	<i>'</i>		
			·

	/ DRIL	LING LOG (Contin	uation Sheet)				Hole Number
Project Huc	Jon Fac	cility Siting Inspecto	" Relent	a Miger	·		Sheet Sheets 3 of \$
Elevation (A)	Depth (B)	Description of Materials (C)	Field Screening Results (D)	Geotech Sample or Core Box No. (E)	Analytical Sample No. (F)	Blow Count (G)	<del>                                     </del>
	5	0'to 4' Fill (Ash)  4'to 8' Fill (Ash)	1	NA			4'RUN 2.4'REC 4'RUN 0.75' rec.
	Hudsor 56A-R. AUG 9		g	·	OLE NO.	P5-G	P03

Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION		Moist. Conte	
		Dry	Molst	Wet
	O'to 4', Fill Material (ASh) with 0.15' clayer Brown 5:1+ @ Surface, and some rounded Fine pebbles/Sand throughout	Q	10	0
	Brown silt @ Surtage, and some	]¢	0	0
	rounded fine pebbles/Band throughout	]Ф	0	0
		19	0	0
		19	0	0
		19	0	0
		Įφ	0	0
		19	0	
-		P	0	0
		ļP	0	0
		P	0	0
		P	0	0
		IP	0	0
		P	0	0
	4' to B' Fill Material (Ash) with some Sund and fine rounded pebbles	lb	0	
-	and fine rounded pebbles	P	0	0
		P	0	
		lb	0	0
		P	0	0
		P	0	0
-		9	0	0
		9	0	0
		9	0	0
		19	0	0
		Φ	0	0
		ΙΦ	0	0
		IΦ	0	0
		ļφ	0	0
		R	,0	0
		<b>B</b>	0	0

Project /	DRILI	LING LOG (Contin					h. le Number GPS-GPO3 Sheet Sheet
Elevation (A)	Depth (B)	Description of Materials (C)	Field Screening Results (D)	Geotech Sample or Core Box No. (E)	Analytical Sample No. (F)	Blow Count	5 of S Remarks (H)
·	8	8' to 9.3' Fill	Off n 87 of Soil	NA		MA	
	10-	9,3'to 12'	~ #Opper FID ~ O.Spen PID	9.5' (G	1520 ollect 9-GP03-	5B <sub>.</sub>	Water, 69.960
PARTITION OF THE PARTIT	)1 —			P	9-GP03- lus Dupl 1.5' fo IZ	icato D'	
		12' to 16 5M/CC		_			
	13 =	5M/CC	PID=0.3gpm FID=0gpm				y'run
	プ   						4'Run 4'Rec
	13-						
ROJECT	Hudson	Facility Sit	ny		iole no.	575-C+	P03

Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content
		Dry Molst Wet
	B' to 9,3' Fill (Ash) as above, dry to Moist	880
-		]
***************************************		<b>A</b>
	9,3 to 12, Clayey Silt and VF Sand with	008
	9.3' to 12', Clayey Silt and VF Sand with trace Fine rounded pobbles Water@ 9.5'B65	1000
-	Water@ 9.5'865	100 b
		100 b
		1000
		000
		100 b
		000
	12' to 16', Gray Silt & VF Sand with some coars sand and fine Rebbles &	000
	coars sand and fine Rebbles of	000
	trace clay	000
		000
		000
		000
		000
		000
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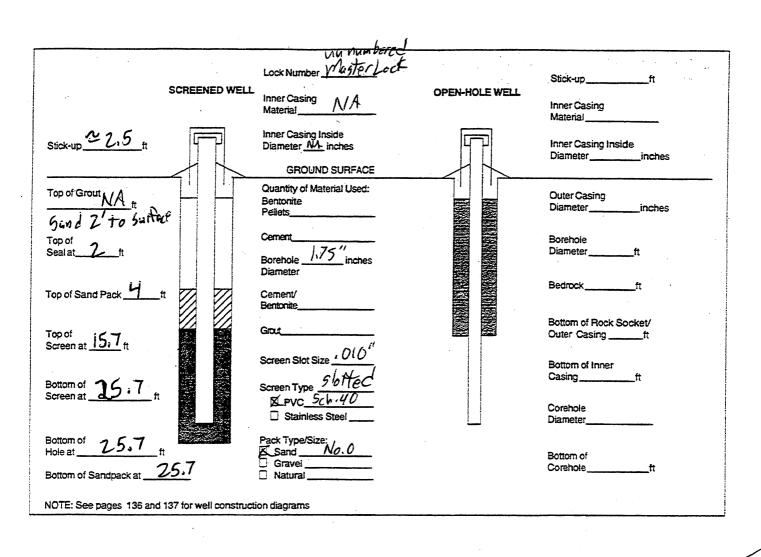
roject	· · · · · · · · · · · · · · · · · · ·	LING LOG (Contin		-cin			Hole Number (395-6903) Sheet Shee
1		Description of Materials	Field Screening Results	Geotech Sample or Core Box No.	Analytical Sample No.	Blow Count	7 of 8 Remarks
(4)	ib —	16' ±070'	(D)	(E)	(F)	(G)	(H)
		Description of Materials (C)  16 +020   5M/CC		NA		NA	
		5M/CC	31ppm PID	. · · · ·			
	17 =		0.3.				4Run
							4 Run 4 Rec
	19-						•
	13-	~					
			0.3ggm PID Oppm FID				
			Oppn FID				
	19 ==						
		20' to 24' -	V				
4		20' to 24'			. ]		<u> </u>
		ML	0.4 PID 0.2 FID				16.4
	71	, (0	0.2 FID				YRUN Y'REC.
							4 IKEL,
1							
	27.		,				
			2 Coon FID				
			30ppm FID 0.2 ppm PIP		de la company de		
	23=						
		-11/4 20					Joseph
2		24'to25' ML	Oppn FID/PI			-	- I'Run 1'Reg
OJECT	25 =		 		OLE NO.		1 KEG
	HUCSON 56A-R, AUG 9	Facility Siti	ng		6	P5-6	1107

Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION		Moistu Conte	nt
		Dry	Molst	Wet
	16'to20' Gray Silt and VF Sand with some Coarse sand and fine rounded pebbles, and trace clay	0	0	Ø
	Coarse sand and fine rounded publies,	10	0	P
	und trace clay			φ
		10	_	φ
		-	0	φ
		-	0	9
		1	0	φ
-		0		φ
-		0	_	$\Phi$
-		0	_	$\Phi$
		0	•	$\mathcal{I}$
		0	$\circ$	$\mathcal{L}$
		0	$\bigcirc$	$\mathcal{L}$
-	70 to 74' Coray 6:1+ Ha tourse VE ( )	0	0	V
	20' to 24' Cray Silt with trace VF Sand, Clay & Rounded Fine/Med Pepples & weathered shall,	0		7
+	Liay France Fine/mec Feggs P3 +	_	0 (	2
· —	WE WITH CC STIGILY		0	
		0		
			O(	
-		0		
-				
-				
		0		
+	24 to 25' Silt as above	$\bigcirc$		
+	21 10 21 111 43 A 100V	0 (		
+	B. O. H@ Z5'B65		$\stackrel{\smile}{\sim} V$	7
	B-215			

#### Borehole Record for GPS-GPO4

- HTRW Drilling Log
- Narrative Lithologic Description and Well Construction Diagram
- Well Development Record
- Well Development -- Parameter Measurements
- Groundwater Purge and Sampling Log
- Investigation Derived Waste Inventory Sheet

						31 AUG 9
HTRW DRILLING	à LOG DE	strict Van S	as Cite			Hole Number
1. Company Name					( , , ,	Sheet Sheets
Ecology & Environmen	TINC.	/	VorTh510	r/veolog	IL Inc.	of B
3. Project /			4. Location	Trenwich	111	
Hudson Superfund  5. Name of Driller Jud Pa	racility 2	Ting		16 CAWICH	107	
15. Name of Driller Jud Pr	א או אנטר		6. Manuracturer	s Designation of Dr	CERRIAL	5400
7. Sizes and Types of Drilling	<del>-</del>	probe Macro	8. Hole Location	s Designation of Dr	Copiose	310-
and Sampling Equipment	core Rods	Wacetate	South end of	site ~ 50 8	ast at Hude	on River
	steeves a	nd discrete	9. Surface Elevat	ion		<del></del>
	Soil sampl	ing system				
			10. Date Started	10-2-03	11. Date Comple	eted 73
12. Overburden Thickness			15. Depth Groun	dwater Encountered	1000	
<del></del>	5.7'				22.2'BU	•
13. Depth Drilled Into Rock	usal@2	5.7'B16	16. Depth to Water	er and Elapsed Tim	e After Drilling Co	mpleted
				BGS after		
14. Total Depth of Hole 25	7'BGS		17. Other Water I	evel Managements	s (Specify)	
18. Geological Samples	Disturbed		Undisturbed		19. Total Numbe	r of Core Boxes
NA	T				N.	A
20. Samples For Chemical Analysis	voc	Metals	Other (Specify)	Other (Specify)	Other (Specify)	21. Total Core
21. Disposition of Hole	Backfilled	Monitoring Well	5 VOCS	23. Signature of 1	A. A	Recovery NA %
21. Disposition of Hole	Dackined	Temporary	Courer (Specify)	23. Signature of	VIllys	-
LOCATION SKETCH/COMMEN	ITS	Devitorial	<b>1</b>	SCALE:	175	
	<del></del>	<del></del>		JOALL. /	017	· · · · · · · · · · · · · · · · · · ·
	^					
Hud	50 <sup>41</sup> 20					
Tub.	7 . 1	<u> </u>	<del>          </del>			
	177					
	•					(0)
				/	7	Ş
			19	/		5
		4	J00 <sup>25</sup>			) De <i>to</i> n
		<u> </u>	$\mathcal{U}^{v}$		$\mathcal{H}$	
					Aspha	8
		6-GP5-6F	01	/	Dad	ZZ.
6000					***	Span) theas
TO 405 70 DICH	- 0		<del>-</del>			\$
VIII	Road					2
						70
	ع ۾ ( ما	45				
		1 1 - 10				<b>X</b>
		W0005	or PAM			
	7740	700 16N				
PROJECT	717	114. 64		HOLE NO	.CPS -G	PM
PROJECT HUCKON Supel	Tuncy ra	ally July	rig		UT5 - U	
ENG FORM 5056-R, AUG 94			/		(Pro	ponent: CECW-EG)



	/
Made	
(ilities)	
	-

roject Hudson	inspector					0100
	Facility siting	Robert a	n Muse			Sheet Sheets 3 of S
Elevation Depth (A) (B)	Description of Materials (C)	Field Screening Results (D)	Geotech Sample or Core Box No. (E)	Analytical Sample No. (F)	Blow Count (G)	
2-3-	0' to 0.6' C-M 0.6' to 4.0' ML	FID Unless noted Oppmin BZ and off soil core	NA		NA	4'RM 3,5'Rec
4	H-B' ML				•	4'Run 4'Rec
7	<del></del>					4'Rec
	n facility Siting	<u> </u>		HOLE NO.	P5-GP	204

Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION	Mois Cor	tent
		Dry	
	0' to 0.6', moist top soil, med brown silt	0 8	D O
	with some sund of Pounded fine pebbles	<b>&amp;</b> C	0
	0' to 0.6', moist top soil, med brown Silt with some sund & Pounded fine pebbles 0.6' to 4.0', Tan Silt w/ trace rounded	Ф С	
	fine pebbles, dry	] <b>(</b> ) (	
		p c	
		p c	0
		bo	0
		bc	
		bc	
		16 c	
-		6	
-		6	
-		6	
	4' to 8' Silt as above, dry	1	
	TIOO JIII US ANOLJULY.		
-			
-			
-			
	•		
		PC	
		ФС	0
		ФС	
		фс	
	•	фс	
		b c	
-		b c	
-		160	
		16 c	
-		K c	

	LING LOG (Contin	uation Sheet)				Hole Number GPS-GPOK
oject Hudson Fal	cility siting inspecto	"Redent	O.M.y.			Sheet Sheets  5 of 8
ilevation Depth (A) (B)	Description of Materials (C)	Field Screening Results (D)	Geotech Sample or Core Box No. (E)	Analytical Sample No. (F)	Blow Count (G)	Remarks (H)
9 -	8' to 9' ML 9' to 12' GM	Oppmin BZ and At Soil Cores	MA		NA	4 Run 3.5 Rec
11 —	12'te 16' -					
13 -	GM					4 Run 3,4 Rec
15	acility biting				P5-G1	

Depth(feet).				
		Dry Molst	Wet	
	B'to 9', Dry silt as above	<b>&amp;</b> C		
	/	ØC	) 이	
		Ø C	) 0	
	9' to 12' VF to coarse Sund and fine to med.	фс	) 0	
	pebbles (Subrounded to rounded), dry, with	фС	0	
	little silt	фС	0	
		фС	0	
		$\phi$ C	0	
		$\phi \circ$		
		ф c		
444444		60	0	
		<b>b</b> 0		
-	·	100		
-		Ø 0	0	
	12' to 16', Sand, Gravel (Pebbles) & Sitt as above,	Ø Ø	0	
	12' to 16', Sand, Gravel (Pebbles) & Silt as above, Dry to Moist	ΦΦ		
-		фф	0	
		6		
		99		
		9.9	0	
		6		
		6	0	
		7	0	
		II		
-		XX		
-		77		
		灰 L		
		K W		

	LING LOG (Contin					Hok Number
roject Hudson	Tacility biting Inspect	or Rahit a	Myon		·	Sheet Sheet
Elevation Depth (A) (B)	Description of Materials (C)	Field Screening Results (D)	Geotech Sample or Core Box No. (E)	Analytical Sample No. (F)	Blow Count (G)	Remarks (H)
17	16'+020'	1	NA		NA	
19 -		Oppm in BZ and off soil Core				4 Run 3.4 rec
_	<u> </u>			-		<b>Q</b> .,
Z0-	20'to 22.2'.	1				Oellel stable during drilling
						Y'Run Y'Rea
73-	22.2' to 24' ML		- G-T	1405 Collect Su 29-6-704 22' to 24	mpt -3B	4 Rec. Water Q 2ZZ' BUS
24 2 <b>5</b>	24' to 25.7' ML		-			1.7'RUM
ROJECT Huds	on Facility Siti	ny	i	HOLE NO.	P5-07	04

Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION			re nt
		Dry	Molst	Wet
	16 to 20 VF to course SAND and Gravel (fine to		Ø	0
	med. Pebbls (rounded) with some sitt,	$ \Phi $	P	0
	Dry to Moist	]Ф	ф	0
		Ф	φ	Ö
		ΙΦ	φ	0
		19	φ	0
		19	Ф	0
		φ	P	0
		φ	þ,	0
		ф	þ,	0
		ф	φ	0
		φ	φ	
		D	P (	
-	20'to 22.2' Sand, pebbles & Siltus above Water@22.2' BUS	<b>X</b>	Š (	
	Water@22.2' BUS	X I	<b>X</b>	
		φ (	ф	$\supset \mid$
		φ	9 (	기
		φ	\$ (	기
		A S	9 (	
		0	D.	기
- 2	22.2' to 25.7 Clayey Gray Silt (Saturater) Water @ 22.2' BGS	0		최
	Water@ 22.2'BGS	0		3
		0		2
		0		2
		0	<b>)</b> (	2
	·	0	) (	2
			<b>&gt; 6</b>	2
		0 (	) Q	2
	B.O.H.C.25.7'B65	0 (		Ś
		0	<b>&gt;</b> (	2

## Borehole Record for GP5-GP05

- HTRW Drilling Log
- Narrative Lithologic Description and Well Construction Diagram
- Well Development Record
- Well Development -- Parameter Measurements
- Groundwater Purge and Sampling Log
- Investigation Derived Waste Inventory Sheet

	I Director					31 AUG
HTRW DRILLING	LOG Distr	Lunsa	5 City			Hole Number
1. Company Name	2. Dri					Sheet Shee
Ecology YEAVISCHMENT.	Inc.		Northsta	r/Geologic	Inc	1 of 8
3. Project Hudson Superfund fan			4. Location	reenwich	N.Y.	
5. Name of Driller Jud Pou	العب		6. Manufacturer's	s Designation of Dr	ill -s.bo =	100
		(-22-1-5	8. Hole Location	0	eoprobe 5	700
	1.75" a.D. 1	e Rods with		d Near Riv	P	
		leeves and	9. Surface Elevat			
	discrett 5	oil Sumpling				
	system.		10. Date Started	03	11. Date Comple	eted
2. Overburden Thickness				water Encountered		
2. Overburden Unickness >25					$\simeq 14'BG$	-3
3. Depth Drilled Into Rock			16. Depth to Wate	er and Elapsed Tim	e After Drilling Co	mpleted
4. Total Depth of Hole 25				evel Managements		**************************************
	***					
· NA	isturbed —		Undisturbed		19. Total Numbe	r of Core Boxes
0. Samples For Chemical Analysis V	oc V	Metals	Other (Specify)	Other (Specify)	Other (Specify)	21. Total Core
Disposition of Hole	ackfilled	Monitoring Well		Pest   PCB   23. Signature of I	nspector	Recovery NA
	(	, , , , ,	(-poony)			
OCATION SKETCH/COMMENTS	\$			SCALE:	VT5	
A		1	1			
1		/280	/			
NT -		13	<i>†</i>			
		/37/		<u> </u>		
		/,2/	1	learing		
		/ </td <td></td> <td></td> <td>7</td> <td></td>			7	
			· · · · · · · · · · · · · · · · · · ·			
						N0005
mad				$\varphi$		
Dirt Road			(5	<del>D</del> 15-6905	\	
1 / /						
					<b>\</b>	
	\	4 14	on Riv	79		
<del>_</del>		1100	U17 / V	<u> </u>		
ROJECT Hudson Superfi	end Facil	lity Siting	,	HOLE NO	GPS-GF	05
IG FORM 5056-R, AUG 94					(Dec.)	onent: CECW-E

(Proponent: CECW-EG)

	Lock Number Master Lock		Stick-up ft	
SCREENED WELL		OPEN-HOLE WELL	Inner Casing Material	
Stick-up 2.6 ft	Inner Casing Inside Diameter NA inches GROUND SURFACE		Inner Casing Inside Diameterinches	
Top of Grout NA ft	Quantity of Material Used: Bentonite Pellets		Outer Casing Diameterinches	
Top of 2' Seal atft	Cement		Borehole Diameterft	
Top of Sand Pack 4 t	Cement/ Bentonite		Bedrockft	
Top of 14.35 ft	Screen Slot Size 1010"		Bottom of Rock Socket/ Outer Casingft	
Bottom of 24.95 ft	Screen Type 5/01/160  Screen Type 5/01/160  Stainless Steel		Casingft  Corehole Diameter	
Bottom of Hole at	Pack Type/Size:    Sand	_	Bottom of Coreholeft	
NOTE: See pages 136 and 137 for well construction	ion diagrams			

15	
n idea	

	V DRILI	ING LOG	(Contin	uation Sheet)				GPS-GPO
oject Huo	Ison Facil	lity biting	Inspecto	" Rathat	12 Muse			Sheet She
evation (A)	Depth (B)	Description of Mat	terials	Field Screening Results (D)	Geotech Sample or Core Box No. (E)	Analytical Sample No. (F)	Blow Count (G)	Remarks (H)
	0 =	o'to i.g' Fill		FID imless Noted	NA		NA	4' Run
	\							4'Run 1.9'Rec. (Note Rec top 1.9')
		10 to 4'	·	Oppmin BZ of Fill				
		No Recov	erx					
	3 =				•			
	<u>-</u>	-4'to7' Fill						
	/ =	4'to7' Fill						
	5-							4 Run 2.6 Rec
	\ \frac{-\frac{1}{2}}{\frac{1}{2}}							2.6 Rec.
	1							
	7 -=	7' to B'		Offin BZ a off soil Core				
	g =			Cort		HOLE NO.		

Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION	Moist Cont tsioW	ent
	o' to 1.9', Fill Materials Dry circlers/Asobalt	© ≥	
	O' to 1.9', Fill Materials, Dry, cinders/Asphalt, Brick, and concrete	φc	) (
		16 c	
		160	
		16 o	
		16 o	, 0
	1.9' to 4', No Recovery	1 b o	
		0	0
		100	0
		100	0
		0	0
		0	0
		0	0
	4' to 7', Fill as above	100	0
		160	0
		60	
		bo	0
		lb o	
-		lbo	
		60	
-		6 o	
		bo	0
-		60	0
		VØ	
-	7'to 8', VF to Classand and silt with few	0 &	
-	1 100, VI TOC DANG GVIC JIII WINI YEW	0 &	
-	coarse sand and fine subsounded peobles Moist	0 \$	
	r ' ' ( <i>)</i> ( つ )	08	
		0 &	
		0 %	

HTRN	/ DRIL	LING LOG (Contin	uation Sheet)				Hole Number
B		ility biting Inspector		My			Sheet Sheets 5 of 8
Elevation (A)	Depth (B)	Description of Materials (C)	Field Screening Results (D)	Geotech Sample or Core Box No. (E)	Analytical Sample No. (F)	Blow Count (G)	<u> </u>
	8 <u>=</u>	3'+012' F911		NA		NA	
		Till	Offin in BZ 4 off Fill				4/2un
	9 =		d off till			·	2.8' Rec
	10=						
9 99 91					T T T T T T T T T T T T T T T T T T T		
	10						
					The state of the s		
	12-	12' to ~14'	- 1				
		12' to ~ 14' - Fill			1057 Hect Sum	o fo	
	13-=		PID=2,5ppm		25-6-P05- 2 to 16	,	4 Run
			FID=0.4ppm		2 10 16		1.9 Rec.
	14-	14' to 16'					water
		5M/5C					Note Proces
	15—	14' to 16' 5M/5C				1	× 14863
	16		Y				
PROJECT	tud 501 56A-R, AUG 9			ŀ	IOLE NO.	P5-GP	05

Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION	7	Moista Conte	
		Dry	Molst	Wet
	B'to 12', Fill Material, 35% brick, 28% civeles	0	Ø	0
-	Yor Asphalt, 15% crushed stone/loncrete with some Silt + VF to Fine Tan to brown sand.	0	P	0
	some Silt + VF to Fine Tan to brown sand.	0	P	0
		0	P	0
		0	9	0
		0	9	0
		0	Ψ	0
-	•	0	Ψ	0
		0	Ψ	0
		0	Ψ	0
			Ψ	
-		) (	Y	
	12' to=14' Fill as above	0	T	
		0		
-		0	$\Phi$	
		0	ф	0
		0	ф	
		0	1	
		0	Ø	0
	Fine Publics (Natural) 4-little clay	0	0	Ø
	fine Publics (Natural) 4-little clay	0	0	Φ
		0	0	$\phi$
,		0	0	ф
		0	0	$ \phi $
		0	0	$ \phi $
		0	0	9
		0	0	A)
		0	0	R

HTRV	V DRIL	LING LOG (Contin	ustion Sheet)	-			Hole Number
Project		lity siting inspector		777			6-P5- 6705 Sheet Sheet 7 of 8
Elevation (A)	Depth (B)	Description of Materials (C)	Field Screening Results (D)	Geotech Sample or Core Box No. (E)	Analytical Sample No. (F)	Blow Count (G)	Remarks (H)
		16' to 2 18'  5M/PAM  CC	Ommin 64	NA		NΑ	4 Run   2.4 Rec
			Oppmin BZ and off sel				
	19—	~18' to 20' Weathered Shale					
	<del></del> -						]
	20=	20'to24' GM	-				
	2/						4 Run 4 Rec
	13		- ZZ' 20 <sub>TPM</sub> FID 5 <sub>PPM</sub> PID	Co C	1130 illect extended PS- GPOS on 22 to	15 Sumple 5-5BZ 24'865	
	23— 24— 25 =		FID=15 PID=4	PPM			j'Run j'Rec.
	Hudson		ting	H	IOLE NO.	P5-Gi	°05
ENG FORM 50	56A-R. AUG 9		/			Prop	opent CECW-EG)

Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION	1	Moistr Conte	
		Dry	Molst	Wet
-	216 to 18' silty (lay and shale Fragments, brown	0	0	Q
			0	\$
			0	ф
		10	0	φ
		0	0	φ
-			0	P
	N18' + 70' / 6 H - 1 / 6	0	0	φ
	218' to 20' Weathered shale and some gray Siltyclass, Saturated.	-	0	φ
	Silty closy, Suturated.	0		φ
			_	φ
			0	P
		0	0	P
-		0	0	P
+		0	$\circ$	7
	70'to 24' for 6'14 VE ( ) d	0		0
.   4	20' to 24', Gray Silt, VF Sand + angular fine peobles/coarsesand.	$\circ$	$\mathcal{O}$	$\mathcal{L}$
	Pewith/Coargehand.			$\perp$
			$\circ$	$\mathcal{L}$
		0		7
-		0	_	Z
		_		21
	·			2
-		$\sim$		C
-	24' to 25' Same as above			7
-	LI IU LI Jume UJ a DOVE	$\mathcal{O}$		
		$\circ$		
	B.O. H @ 25'005			7
	B-235	$\frac{\mathcal{O}}{\mathcal{O}}$		

## Borehole Record for GP5-GP06

- HTRW Drilling Log
- Narrative Lithologic Description and Well Construction Diagram
- Well Development Record
- Well Development -- Parameter Measurements
- Groundwater Purge and Sampling Log
- Investigation Derived Waste Inventory Sheet

HTRW DRILLING	G LOG Dis	trict V and a	5 City		ļ.	31 AUG 9
1. Company Name		Sell Code	<del></del>			176706
Ecology & Following	t Tree	,	Northstar	1600 1091	2	iheet Sheets $f$ of ${\cal S}$
3. Project  Hudson Superfund  5. Name of Driller  Jud	Facility Si	ting	4. Location	Penwich,	NY	
5. Name of Driller Jud	Powell		6. Manufacturer's	s Designation of Dri	"Geoprabe	5400
7. Sizes and Types of Drilling and Sampling Equipment	1.75" OD	GEOPTON Rais	8. Hole Location			
and Sampling Equipment	with aceta	te sleeves	In Woods (C)	leurad area) Na	orthand State	luposadient,
	System	te soil sampling		100		
			10. Date Started	10-9-03	11. Date Completed	
12. Overburden Thickness	25'		15. Depth Ground	dwater Encountered		
13. Depth Drilled Into Rock	A	***************************************	16. Depth to Wate	er and Elapsed Time 3' after 12 m	After Drilling Comp	leted
14. Total Depth of Hole 2	5'			evel Managements		
18. Geological Samples	Disturbed		Undisturbed		19. Total Number of	Core Boxes
20. Samples For Chemical Analysis	voc	Metals	Other (Specify)  50005	Other (Specify) P45+/PCBs		1. Total Core
21. Disposition of Hole	Backfilled	Monitoring Well		23. Signature of In		
LOCATION SKETCH/COMME	NTS	Temperary	/	SCALE:	Mya	-
				SOALE.		
	500	GP5-6	PO			
		1				
		L00				
					- <del></del>	
PROJECT Hudson Sup	~ A. u 14	Ecolid	4+1	HOLE NO	GPS-GPC	26
114CJUNI JUP	rilanc ,	LUCILITY	オルウ		UIJ DIL	0

	Lock Number Master Lock		
	Lock Number <u>Master Lock</u>	·	Stick-upft
SCREENED WELL	<u>.</u>	OPEN-HOLE WELL	Suck-upn
	Inner Casing a / A	OPEN-HOLE WELL	Inner Casing
•	Material /V /1		Material
	Januar Operius teeride		14164C1161
Stick-up 2.5 ft	Inner Casing Inside Diameter <u>NA</u> inches		Inner Casing Inside
Suck-upii	Diameter NA Inches	17 FI	Diameterinches
	GROUND SURFACE	H H	
		<u> </u>	
Sand 1' to Surface	Quantity of Material Used:		Outer Casing
NOTE O	Bentonite Pellets		Diameterinches
Sand 1 to Surtuce	· caco		,
Top of	Cement		Derebele
Sealat ft			Borehole Diameterft
	Borehole 1.75" inches		Jan 10101
	Diameter		
Top of Sand Pack	Cement/		Bedrockft
Topo: Sand Fack	Bentonite		
			Dames of Dames of Dames
Top of	Grout		Bottom of Rock Socket/ Outer Casingft
Screen at _5_ft	**		Outer Casingn
	Screen Stot Size 1010"		
		i	Bottom of Inner
Bottom of 15	Screen Type <u>5/01/60</u> \$-PVC_5ch.40; 1"dia.		Casingft
Screen atft	Dave sch 40 1"de		
	☐ Stainless Steel		Corehole
	□ Stainless Steel		Diameter
Bottom of 2 (	Pack Type/Size		
Bottom of 25 ft	Pack Type/Size: Sand No.()		Bottom of
Bottom of Sandpack at 15	☐ Gravel		Corehole tt
	□ Natural		
Note: Hole was allowed to Collapse of NOTE: See pages 136 and 137 for well construct	47 to 15' BGS.		
	ion diamena		
NOTE: See pages 136 and 137 for well construct	eon diagrams		
NOTE: See pages 136 and 137 for well construct	bon diagrams		
NOTE: See pages 136 and 137 for well construct	non diagrams		
NOTE: See pages 136 and 137 for well construct	uon diagrams		
NOTE: See pages 136 and 137 for well construct	ann diagrams		
NOTE: See pages 136 and 137 for well construct	aon diagrams		
NOTE: See pages 136 and 137 for well construc	aon diagrams		
NOTE: See pages 136 and 137 for well construc	eion diagrams		
NOTE: See pages 136 and 137 for well construc	eion diagrams		
NOTE: See pages 136 and 137 for well construc	eion diagrams		
NOTE: See pages 136 and 137 for well construct	eion diagrams		
NOTE: See pages 136 and 137 for well construct	aon diagrams		
NOTE: See pages 136 and 137 for well construct	ation diagrams		
NOTE: See pages 136 and 137 for well construct	A A		
NOTE: See pages 136 and 137 for well construct	And Mad		
NOTE: See pages 136 and 137 for well construct	May		
NOTE: See pages 136 and 137 for well construct	May May		
NOTE: See pages 136 and 137 for well construct	May 1		
NOTE: See pages 136 and 137 for well construct	All May		
NOTE: See pages 136 and 137 for well construct	And Magrams		
NOTE: See pages 136 and 137 for well construct	And Magrams		
NOTE: See pages 136 and 137 for well construct	A May		
NOTE: See pages 136 and 137 for well construct	A May		
NOTE: See pages 136 and 137 for well construct	A May		
NOTE: See pages 136 and 137 for well construct	and diagrams		
NOTE: See pages 136 and 137 for well construct	A A A A A A A A A A A A A A A A A A A		
NOTE: See pages 136 and 137 for well construct	and diagrams		
NOTE: See pages 136 and 137 for well construct	A May		
NOTE: See pages 136 and 137 for well construct	A May		
NOTE: See pages 136 and 137 for well construct	A May		
NOTE: See pages 136 and 137 for well construct	and diagrams		
NOTE: See pages 136 and 137 for well construct	A A A A A A A A A A A A A A A A A A A		

HTRW	DRIL	LING LOG (Contin	uation Sheet)				Hole Number
Project Huc	Ison Fac	ility siting Inspecto	" Palet W	My			Sheet Sheets 3 of
Elevation (A)	Depth (B)	Description of Materials (C)	Field Screening Results (D)	Geotech Sample or Core Box No. (E)	Analytical Sample No. (F)	Blow Count (G)	Remarks (H)
	2 - 3 - 3 - 3	0' +0 4' 5 M	FID=0,497m PID=0.497m	NA		NA	4 Rin 3,3 Rec.
	4	-4'+08' 5M	Oppm FID/PI				4/Run 3,4/Rec. Water & 25/86-5
PROJECT		Facility Siti	ing	•	HOLE NO.	P5-61	P06

Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION		Moista Conte	ent
		Dry	Molst	Wet
	0' to 1.2', Med brown Silt with little clay and	0	Ø	0
	VF to Med Sand & few Shale Fragments,	0	Ø	0
	Moist	0	Ď	0
		0	T	0
	1.2' to = 3.2' Tan Silty Clay, slightly plastic, muist.	0	P	0
-		0	P	0
-		0	P	0
-		0	P	0
		0	P	0
	22 1 11 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0	P	0
	3,2' to 4', VF to fine Sand and Silt, Gray/brown.	0	9	0
		0	1	0
		0	Ψ	0
	11'+.0' NET. //a. /. 1 1/'hk +	0	Ψ	0
-	4'to8', VF Tan/Gray Sand and Silt, water @~5'BGS, little Clay,	0	Ψ	
	E = 5 Bbs, MITTE Clay,	0	4	0
		$\dot{\mathcal{C}}$	T	
-		0	0	2
				<b>1</b> 2
-				7
-				
:				
-				$\mathcal{L}$
		0		$ \mathcal{X} $
-		) (		7
-				$ \mathcal{X} $
				A
		$\bigcup$	$\bigcirc$	X

ITRW	DRIL	LING LOG (Continuity Sitting Inspecto		W	***************************************		Hole Number GP5-GP06 Sheet She
levation (A)	Depth (B)	Description of Materials (C)	Field Screening Results	Geotech Sample or Core Box No.	Analytical Sample No.	Blow Count	S of S Remarks (H)
	9 =	8't012' 5M/5C	Oppmin BZ	(E)	(F)	NA	
	10			GP3	1042 Collect G-GP06-5 Com 1040	;B 12'865	Y'Run Y'Rei
	" =			•			
	13	12' to 16' 5M/SCRAN					- 4 Run 4 Rec.
	)4 ====================================						
	15.5 						
OJECT	16 = GP5	GPO6 Hads	on Facility	Siting H	OLE NO.	PS-G-PC	K

Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION		Moisture Content		
		Dry	Molst	Wat	
	8' to 12' Tan/Grax VF to Fine Sund and Silt with little Clay, Iron staining (Heavy) From 10' to 12' BGS.	0	0	Ø	
	with little Clay, Iron staining (Heavy)	0	0	Φ	
	from 10 to 12 BGS.	0	0	φ	
		0	0	φ	
			0	P	
		_	0	φ	
		0	0	9	
		0	0	φ	
		0	0	φ	
		0	0	P	
		0	0	P	
		0	0	P	
-		0	0,	P	
	12 to 15.3, VF to Fine Tan/oray band with little	0	0	Ø	
	5117	0		9	
		0	0	9	
		0	0	9	
		0	0	9	
		0	0	9	
		0	0	$\varphi$	
		0	0	P	
		0	0	P	
		0	0	P	
-		0	0	P	
		0	0	P	
		0	0	P	
	15.3' to 16' light Gray Clayey 5iH with little	0	0	P	
	VF Sand	0	0	9	
-+		0	0	9	
		0	0	Ø	

HTRW DRILLING LOG (Continuation Sheet)							Hole Number 6-P9-6-906
Project Hudson Facility biting Inspector Robert a Mayor						Sheet Sheets 7 of 8	
Elevation (A)	Depth (B)	Description of Materials (C)	Field Screening Results (D)	Geotech Sample or Core Box No. (E)	Analytical Sample No. (F)	Blow Count (G)	Remarks (H)
	// 	16'tozo' SW		NA		1VA	
	18		NA				H RUM No Receivery Flowingfire Sund
	18						
	20	<del>20'+024'</del> 5W					
		5 W	Oppor FID/EI off soil + in BZ	p			4 Run 1,3 Rec
	22		oduring drilling				
	24 25	−24'+025' - SW	Oz/Le Stustie	,			I'Run 0.2'Rec
PROJECT	Hud:	son Facility 5	iting		HOLE NO.	-P5-G1	P06

Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION		Moisture Content		
		Dry	Molst	Wet	
	16' to 20', No Recovery, Flowing fine Sund Coming out of the Sumpler.		0		
	Coming out of the sumpler.	┥ .	0	Ø	
	·	-	0	φ	
		-	0	i	
		-	0	φ	
	·	0		9	
		0		9	
		0	_	7	
-		0	_	T	
+		0		$\mathbb{P}$	
		0	0		
		_	0	$\chi$	
-	20' to 24', VF to Fine Flowing Tan Sand.	0		I	
	20 1021, VI 101 Mil Flowing 1001 Jane,		0	$\prod_{i=1}^{n}$	
			0	4	
		_	0	ДI	
		0	0 (	$\frac{1}{2}$	
		0	0 (	$ \mathbf{b} $	
		0	0	$ \phi $	
		0	0 (	$  \downarrow  $	
		0	0 (	b	
		0	0	$  \downarrow  $	
		0	0 (	b	
-		0	0	Ы	
	·	0	0	þ	
i	24'to 25' Same as above	0	0	þl	
		0	0	þ	
		0	0 (	þ	
	B.O. H @ 25'B65	0		Ž.	

## Borehole Record for GP5-GP07

- HTRW Drilling Log
- Narrative Lithologic Description and Well Construction Diagram
- Well Development Record
- Well Development -- Parameter Measurements
- Groundwater Purge and Sampling Log
- Investigation Derived Waste Inventory Sheet

			31 AUG 94
HTRW DRILLING LO		City	Hole Number
1. Company Name	2. Drill Subcontractor	Nacttort // /	Sheet Sheets
Ecology & Environment Inc		( VOI 1 1 3 191/ CAO!	ogic Inc. 1 of 8
3. Project Hudson Superfund Fac	ility siting	4. Location Orcen Wi	ch, N.S.
5. Name of Driller Jud Powy	11	6. Manufacturer's Designation of	ogic Inc. Sheet Sheets of & Sh
	"O.D. Geograph	8. Hole Location Center of 3 Entrance of Coo	ite, Just inside
with	n acetate sheeves	9. Surface Elevation	
	discrete soil sampling	10. Date Started	
5y5	tp m	10. Date Started 10-9-03	11. Date Completed 10-9-03
12. Overburden Thickness > 25		15. Depth Groundwater Encounter	
13. Depth Drilled Into Rock		16. Depth to Water and Elapsed	Time After Drilling Completed
14. Total Depth of Hole 25'		17. Other Water Level Manageme	
18. Geological Samples Disturb	ed	Undisturbed	19. Total Number of Core Boxes
20. Samples For Chemical Analysis VOC	Metals V	Other (Specify) Other (Specify SUOC'S Sest/RB	
21. Disposition of Hole Backfill	ed / Monitoring Well	Other (Specify) 23. Signature	of Inspector
	Tempicary	Rath	allyer
LOCATION SKETCH/COMMENTS		SCALE:	NTS
/1/ ,			
/N/			
	- C		
		V Co	
		Ocavel Gravel Area	
		Graves	
	-G-P07	Aneq	
		4	
4	$\Theta^{-}$		
	<b>V</b>		16 Gato
			CAPO
	1 + 4 11		10 /2
1 900	Roac		970
Dict Entrance			
1/11			
			<u> </u>
PROJECT ( )	10 111 /11	HOLE	NO. GPS-GP07
PROJECT Hudson Superfunc	Tacility Sitis	ĝ	U15-6101

(Proponent: CECW-EG)

ENG FORM 5056-R, AUG 94

Inner Casing Material    Inner Casing Material	SCREI	ENED WELL	Number Master Lock	OPEN-HOLE WELL	Stick-upft
GROUND SURFACE    Diameter	- 1	Mater	1161		
Top of Seal at	Stick-up 2, 4 ft	Diam	neter Minches		
Seal at	Top of Grout NA ft	Bento	onite		
Top of Sand Pack	Top of Seal at 0.5 ft	Boreh	note <u>1.75"</u> inches		
Top of Screen at 10 ft  Screen Slot Size 1010"  Bottom of Screen at 20 ft  Screen Type 510 14ed  Screen Type 5	Top of Sand Packft				Bedrockft
Bottom of 25 tt Sand No. 0  Bottom of Sandpack at 20'	Top of Screen at 10 tt	Screei	en Stot Size 1010"		Outer Casingft
Bottom of 25 tt Pack Type/Size:  K Sand No. 0  Bottom of Sandpack at 20'  Bottom of Sandpack at 20'  Natural	Bottom of Screen atft	Screen	en Type <u>510 170 d</u> PVC <u>506 40 11 dia</u> Stainless Steel		Corehole
X 100TIOM 5' Ullowed To lolloge	Hole at	☐ Gra	avei atural	_	Bottom of
NOTE: See pages 136 and 137 for well construction diagrams	NOTE: See pages 136 and 137 for v	ed To Lollupse vell construction diag	grams		

Was the same of th
, p. 1119
1 and

	/ DRILI	LING LOG (Continu	-				Hole Fumber
Project Hudso	on Facili	Ly Siting Inspecto	Rable	tan	Pyre		Sheet Sheets
Elevation (A)	Depth (B)	Description of Materials (C)	Field Screening Results (D)	Geotech Sample or Core Box No. (E)	Analytical Sample No. (F)	Blow Count (G)	Remarks (H)
	2 -	0' to 3.4' Fill and filt 3.4' to 4' CL	FID Unless Noted Noted Offm FID (moisture)	·NA		NA	4 Pun 31 rec
		4' to 8' - 5M/ML	3ppm FID 1ppm PID				YRun Y'Rec
PROJECT	5	Facility Sitir			HOLE NO	C-PG-6-1	

Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content
		Dry Moist Wet
	0' to 3.4' Fill Material (Cinders, Ash & crushed	Ø80
	limestone) with some brown silt.	$  p \phi o  $
		000
	·	b \ b \ o
		boo
		1660
-		660
		**
	3:4' to 4:0' Silty brown Clay with trace VE Sand	000
	3.4' to 410' Silty brown Clay with trace VF Sand Moist	000
	7 (0(9)	000
	4 to 8' 5:1+ + VF Sand with four Claver	000
	4 to B', 5ilt & VF Sand with few Clayey Silt and Silty Clay, Slightly to	
·	Sill and silly Clay, slightly to	
	NON-Plastic, Moist	000
		0 0 0
		0 0 0
		$  \circ \varphi \circ  $
		$  \circ \phi \circ  $
		000
		000
		000
		000
		000
		000
		000
		000
		1000

HTRW DRILLING LOG (Continuation Sheet)  irole Number  CPS-GP07							
Danie od		icility Siting Inspector		ca M	mere		Sheet Sheets 5 of 8
Elevation (A)	Depth (B)	Description of Materials (C)	Field Screening Results (D)	Geotech Sample or Core Box No. (E)	Analytical Sample No. (F)	Blow Count (G)	
	3   9   10   11   11   11   11   11   11	8' to 12' 5 M	Oppn FID/PI in BZ & off Scil	NA GA	1225 Collect 3-GP07-5 9'toll'	NA	4 Run 3,7 Rec. Water C 9 BGS
PROJECT	<del></del>	Facility Siti	ng		IOLE NO.	1P5-6	-POT

Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content
		Dry Molst Wet
	8' to 12', water @9' BGS., light gray 6ilt	000
	B' to 12', water @ 9'BGS., light gray bilt and VF to Fine sand with few	000
	Clay.	
		080
		000
		000
		000
		000
		000
		00φ
-		00ф
		]00ф
		000
		00/
	12' to 16' Gray VF to Fine Sund and Silt with trace clay	008
	trace clay	000
		000
		000
		000
		0 0
		000
		000
		000
		000
		000
		000
		000
		000
		1000
		]000

oiect	,	LING LOG (Contin		- DI WM			Hole Number  GPS-G-P07  Sheet She
	7	cility siting	-den	a My	1	<del>                                     </del>	7 of 8
(A)	Depth (B)	Description of Materials (C)	Field Screening Results (D)	Geotech Sample or Core Box No. (E)	Analytical Sample No. (F)	Blow Count (G)	Remarks (H)
	16 =	16' to 18.2'					,
	i i	A A		1//		NA	4 Run 3.1 Rec
	17 — <u> </u>	5M		/ 1		[1/7]	3.1 Rec
	17—		Oppm FID/PI in BZ and off Soil Core	D .			
			in BZ and				
			off Soil Co-e				
	18=	-13.2 to 19.3'				-	
		-13.2° +0 19.3'					
		<i>[1]</i>					
	=	CL -19.3' to 20' 5P			-		
	19 =	.6.7(17.0)					
		19.3 +0 60					
		5 <i>P</i>					
	Z0-	-19.3' to 20' SP ZO' to 24' SW	+				
							, 1
		5W					4 Rull
	21-=						,
C THE STATE OF THE							3.1 REC
					***************************************		
	22-						
					-		
	23—		V				
		11	γ				
	24'-	- 24 to 25'				_ +	1 Run
	25 =	5W	V				1 Run O. Y Rec
JECT j	tudson	Facility Sitin	· 6	н	OLE NO.	DS-15	207

Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION						
		Dry	Molst	Wet			
	16' to 18.2' Gray VF to Fine Sand and Silt	0	0	及			
	<u>'</u>		$\bigcirc$	φ			
			0	φ			
		┥  ̄	0	φ			
		-	0	9			
		0		9			
	10 2 to 10 2 1 / 0 1 / 1	0	_	9			
	18:2'to 19:3' Gray bilty Glay	0	,—	9			
	/	0		9			
		0	•	$\mathcal{I}$			
	192' +270' Mal + C ( 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0	_	$\mathcal{L}$			
	19.3' to 20' Med. to Coarse sand and fine rounded pebbles, little silt.	0		$\mathcal{L}$			
	Cuneel peoples, 117114 5111,	0	_ 1				
-	70 to 24' VE to Fine on 1 1 State			7			
	20 to 24', VF to Fine gray Sund, flowing	_	0	I			
-			$\mathcal{O}$	$\mathcal{L}$			
		0	$\bigcirc$				
				7			
		0	$\frac{1}{2}$	51			
-				5			
		0		$\int$			
		_		7			
		0		Ы			
		0	$\cap$	6			
-		0					
	24' to 25', Sand as above	0	$\mathcal{O}$				
		0					
		0 (					
		0 (		5			
	B-255						

## Borehole Record for

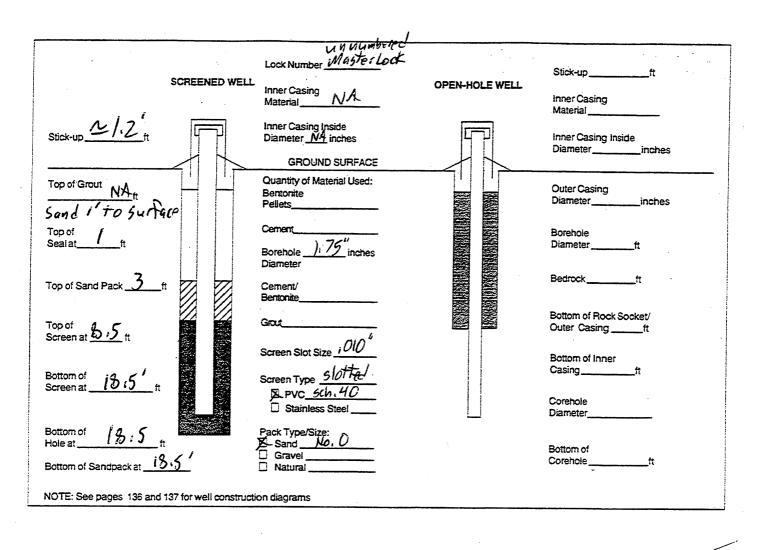
GPS-GP08

- HTRW Drilling Log
- Narrative Lithologic Description and Well Construction Diagram
- Well Development Record
- Well Development -- Parameter Measurements
- Groundwater Purge and Sampling Log
- Investigation Derived Waste Inventory Sheet

31 AUG 94 Hole Number HTRW DRILLING LOG Kansas Cit 2. Drill Subcontractor 1. Company Name Sheets of S North star/beologic Inc Ecology & Environment Inc. 4. Location 5. Name of Driller 6. Manufacturer's Designation of Drill 7. Sizes and Types of Drilling 1.75" Geoprobe Macio-8. Hole Location South Section Near C.R. 113 and Sampling Equipment cose Rody with actite 9. Surface Elevation sleeves and discrept soil sumpling bystem 10. Date Started 11. Date Completed 10-3-03 15. Depth Groundwater Encountered 12. Overburden Thickness 18.5'865 16. Depth to Water and Elapsed Time After Drilling Completed 13. Depth Drilled Into Rock (ROCK @ B.5 B65) 9.74 BGS @ 17 min 17. Other Water Level Managements (Specify) 14. Total Depth of Hole Disturbed Undisturbed 19. Total Number of Core Boxes 18. Geological Samples 21. Total Core Recovery Metals / Other (Specify) 20. Samples For Chemical Analysis VOC Other (Specify) Other (Specify) SVOC'S Pest-/PLBs 21. Disposition of Hole Backfilled Monitoring Well Other (Specify) 23. Signature of Inspector Temporary SCALE: LOCATION SKETCH/COMMENTS HOLE NO Hudson Superfund Facility Siting

(Proponent: CECW-EG)

ENG FORM 5056-R, AUG 94



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APA TO THE PROPERTY OF THE PARTY OF THE PART

31 AUG 94							Hole Number
		LING LOG (Contin					GP5-6708
Huc	Jon Faci	lity giting Inspector	or State	2 Minu			Sheet Sheet
Elevation (A)	Depth (B)	Description of Materials (C)	Field Screening Results (D)	Geotech Sample or Core Box No. (E)	Analytical Sample No. (F)	Blow Count (G)	
		o'to 2.3' Fill GM	FID unless noted Oppmin BZ	NA		NA	4 Run 3.7 Rec
	2-	2,3' to 4'	4 aff soil				
	3 -	2.3' to 4' CL					
·	4	4'+05.3' CL					- 4 Run 4 Re(,
	5	5,3' t07,B'	Oppmin BZ of soil core	9	0855 (a) 5P5-GP03 53'+07	keit -58	Vater & 5.3 605
	7						
PROJECT		7.8 to 8' CL  7.8 to 8' CL	ing	-	HOLE NO.	P5-6i	P08

Depth(feet).							
		Dry Molst Wet					
	O'to 2.3', Dry to moist Fill Material, brown to black Silt, VF to Course sund & angular Fine to med. pebbles, cinders throughout	× × O					
	Silt, VF to Course Sund & angular Fine to	]φφο					
	med. pebbles cinders throughout	900					
	y J	990					
		990					
•		$\phi \phi \circ$					
		400					
		880					
	2.3' to 4.0' Silty tan Clay, slight to Moderate plasticity, moist	0 & 0					
	plasticity, moist	0 0					
		000					
		000					
		0 0					
		080					
	4' to 5.3' CLAY as above	000					
-		0 0					
		$\circ \phi \circ$					
		040					
		080					
	5.3 to 7.8' VF Gray + Tun Sand with some silt	008					
	Water @ 5.3'86-5	000					
		0 0 ф					
-		$\circ \circ \phi$					
		000					
		00ф					
		000					
		000					
		000					
	7.8' to 8', silty/sundy Clay, tan, wet	$ \circ \circ \phi $					
		00 <b>%</b>					

	V DRILI	LING LOG (Contin					Hole Number
roject Hul	Json Fuc	ility Siting Inspecto	" Palut C	1 Muse			Sheet Sheet 5 of 8
Elevation (A)	Depth (B)	Description of Materials (C)	Field Screening Results (D)	Geotech Sample or Core Box No. (E)	Analytical Sample No. (F)	Blow Count (G)	(
	9 =====================================	8'812' 5M	1	NA		NA	Y'Run 4'Rec.
			Oppm in 82 0 50:1 (0:18				
	10			8			
	17						
	13	12'to 16' 5M					4'Run
							0.4 Rec, Gilt fand Flowing out of sampler
	15						
DJECT	Had son	Facility Siting		H	OLE NO.	26-12P1	)S

Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION								
		Dry	Moist	Wet					
	B' to 12' Tan to Pale gray Silt & VF Sand.		0	Ø					
	flowing out of acetate sleevening		0	P					
	J		0	þ					
	·	10	0	P					
		10	0	P					
			0	φ					
		10		P					
		0	0	φ					
			0	φ					
		0	0	φ					
		0	0	P					
		0	0	P					
-	i' = i = i = i	0	0	φ					
	12'to 16', Tan/Pale gray (Flowing out of autate sleeve) Silt and VF Sand.	0	0	9					
	sleeve) Sitt and VF Sand.	0	0	9					
-		0	0	9					
		0	0	9					
		0	0	9					
-		0	0	φ					
-		0	0	9					
-		0	0	9					
		0	0	φ					
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		0	0	φ					
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		0	0	<b>D</b>					

HIRW DRILLING LOG (Continuation Sheet)								Hole Number GPS-GP03
Project Hu	Bon	Fac	ility Siting Inspecto	"Dalent a	Mayon			Sheet Sheets  7 of 8
Elevation (A)	De:	pth 3)	Description of Materials (C)	Field Screening Results (D)	Geotech Sample or Core Box No. (E)	Analytical Sample No. (F)	Blow Count (G)	Remarks (H)
	16		16' to 13.5'		NA		NA	
	-		5M	Deem in 02				2.5 Rus
	17 -			Offmin 52 4 Sail Lote				siltagand
	_			2				2.5 Run 0.3 Rec 5:1+45and Flowing ant of acetate 51eeve.
	10 -			EL during				5100
	13-			Oz/L Stable Doil				a) Refusac
	_							Pock & is story
	19 -							15.00
	_							
	20-							
	19 - 20 -							,
	_							
	21-							
	- 27 <b>-</b>							
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	_							
	Z3 -	2 12						
	24 -				:			
	25				<u> </u>			
PROJECT	Hud	50n	facility Siting			HOLE NO.	-P5- G	P08

Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION				
		Dry	Wet		
	16' to 18,5', 5ilt+VF band flowing out of acetate sleeve.	0 (	D &		
	acetate sleeve.	0	> Þ		
		0	>		
		0	$\Rightarrow \phi$		
		0	> P		
		0			
			> P		
	10 +1/2-0 10 10 -10 10 10 10 10 10	0			
	1000 Refusal @ 13.5' BGS, Solid No chips Rewerld.  (8) 13.5' = 13.0. H	0	A		
. —	(9) ' %.5' = 19.0. H				
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	B-265	0 0			

# Geotechnical Bore Logs From The Georgia Pacific/New York State Canal Corporation Site

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# Borehole Record for GASGY &



- HTRW Drilling Log
- Narrative Lithologic Description and Well Construction Diagram
- Well Development Record
- Well Development -- Parameter Measurements
- Groundwater Purge and Sampling Log
- Investigation Derived Waste Inventory Sheet

	D	istrict				31 AUG
HTRW DRILLING		<i>i</i> / ^	6.0			Hole Number
1. Company Name	2.	Drill Subcontractor	Cary			Sheet Shee
ECOLOGY AND ENVIONA	nar Te	Georga /NO	1 THSTRK	Pellina		/ of @
. Project		sough from	4. Location	RICORY		
Gental A PACIFIC  Name/of Driller		,	THOM SON	. NY		
			6. Manufacturer's	Designation of Dril		
Stare LARAMIE			CME-	45C		
Sizes and Types of Drilling and Sampling Equipment	41/4" /4	15A	8. Hole Location	/		1. 1
and Sampling Equipment			NW Colver	1. 5/2	Z dec preside	Ausin KIVEL
<u> </u>	"X24" 5	PLIT SOOON	9. Surface Elevat	ion (	U	
		•				
			10. Date Started	· lalas	11. Date Comple	
2. Overburden Thickness			de Donth Course	2/8/03 water Encountered	/0/	8/03
71	/		15. Depth Ground	water Encountered	·	
3. Depth Drilled Into Rock				er and Elapsed Time	16 D-111 D-1	
O. J	•				After Utilling Con	
Total Denth of Hole			15. / 1/ty	evel Managements	47.23	سيوسو
21.6	<b>7</b> '			1 . +	• • • • • • • • • • • • • • • • • • • •	Parma
	Disturbed			noisture (i)	19. Total Number	of Core Boyes
		0	Undisturbed /	DATTERSIND	8	o. doic boxes
). Samples For Chemical Analysis \	/oc 🍒	Metals	Other (Specify)		Other (Specify)	21. Total Core
	0	O	A 7 20			Recovery ()
. Disposition of Hole	Backfilled	Monitoring Well	Other (Specify)	23. Signature of In	spector	<del></del>
	X		-	Wishe	-Rechm	
DCATION SKETCH/COMMENT	\$			SCALE: 4		. ~
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			<b>+ 1</b>	†*****************************	† <del> </del>	
	<u> </u>			<b>.</b>		
11						
			<b>,</b>		<del></del>	
<del></del>	<u> </u>			++		
ROJECT 1	<u> </u>	~.		HOLE NO.	GP5-670	
AUDSON RIVE	R MG	HACILITUS S	MUL		LP5-671	D)
G FORM 5056-R, AUG 94	<u> </u>		<u> </u>		- /	onent: CECW-E

(Proponent: CECW-EG)

	Lock Number		Stick-upft
SCREENE	Inner Casing Material	OPEN-HOLE WELL	Inner Casing Material
ick-upft	Inner Casing Inside Diameter inches		Inner Casing Inside Diameterinches
op of Grout ft	GROUND SURFACE  Quantity of Material Used:  Bentonite Pellets		Outer Casing Diameterinches
p of eal atft	Cementinches Diameter		Borehole Diameterft
p of Sand Packft	Cement/ Bentonite		Bedrockft
p of reen at ft	Grout		Bottom of Rock Socket/ Outer Casingft
ttom of	Screen Slot Size		Bottom of Inner Casingft
reen atft	Screen Type  PVC  Stainless Steel		Corehole Diameter
ttom of le atft	Pack Type/Size:    Sand		Bottom of Coreholeft

Me well Constructor, Brettole for
GEOTOCHU PURPOSES CNIG
- Druce Rossmand Spit spoon Africa 0 > 4 50 15 6  Prolife Sufficient Volume For sitte of geotechnicar ANALYSES.  P(p:0-35; F,p:01  - SApple Volume Collectes From 2:0-22,6' B.G. 10:50  SAmple No.: Gps-6701-B, Collectes C 0847
DOUGE SUFFICIENT VOCAME FOR SUITE OF GEOTECHNICAL ANALYSES.
0(p = 0-35 : FiD = 01
- SANTE Volvine Colleges From 2:0- 2,6 868 10:50
SAmple No.: GPS-GTOI-B Callactes @ 0847
- Decar water Source: NORTHSTER'S SAOP, WHILL DIAS Sporm
THE GOOD MUNICIPA WATER SUPPLY
7, 2
- Brenting zone TUA-1000 READINGS all LIPPIN
,

HTRW DRILLING LOG (Continuation Sheet) Hole Number GPS-G701 Project inspector Georg 1A Tow of Elevation Depth (B) Geotech Sample or Core Box No. (E) Analytical Sample No. (F) Field Screening Results (D) **Description of Materials** Remarks **Blow Count** (A) (G) (H) MA OL 695-6701 A 3/6/6/4 P10= 0 FU= 0 5m50 0345 5m 90% F10 - 0.0 CL 0347 2/3/4/5 P10= FiD = No RE COVERY Fus Smine G75-4/5/5/5 MH 75% 0900 i22: 9 HOLE NO. 695-67\$1 **PROJECT** HUDSON RIVER PCB FACILITY SITING

	PAge to	168	
Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION	Moist. Conte	ent
		Dry Moist	Wet
	.' \.	00	0
		]00	0
0	- 0.4 Brown siery Copin; The gaptivel; Roots	00	0
	DRy Brown siery CoAmi, The gatrel, Roots	00	0
-			0
0.1	1-0.8 Brown Strong GRAnelly SAND, ROUNDES	00	Ö
	C4575 & 1.5 cm Olmeter, The SILTE 26	00	0
-		00	0
0	8-1. 8 Besen getvelly stres; sap; sur = 5%	00	0
		00	0
	5 - 3.1 TAN U.F. 9. STZ-Y SAMO DAMP NO NEWSTONY	00	0
	SEFT	00	0
_3.	1-2 G.8 TAN CAM SILT, Mas Gittislan, Low Pults Tries,	00	0
	/+v3Qp	00	0
		00	0
	11/7 SOCON	00	0
A	7 34 Blecies By Cossie Frances	00	0
ŀ		00	0
6.8	The SUM SUM SUM BOTHERD SUT GOTH CLIN	00	0
j	TAN SIM SIM; BUT HOPER SINT GOTTON; CLIM	0.0	0
a.		00	
93		00	
23		00	0
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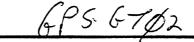
7 I K W	DRILL	ING LOG (Contin					Hole Number
earna Carana	PACIFIC	Inspecto Ve	_ ,,,,	^		,	Sheet She
Elevation (A)	Depth (B)	Description of Materials (C)	Field Screening Results (D)	Geotech Sample or Core Box No. (E)	Analytical Sample No. (F)	Blow Count (G)	Remarks (H)
	9	CH 1	P10 = 0	NA	GP5- G701-	t ə ·(/	95% Dec
					0307	<del>081</del> 2	·····
	/0		$     \int \int \int \int \int \partial u  du  du  du  du  du  du  du $		GPS- G7¢î-	217/12	1 20 A
					e14. P O <b>G</b> 12		l 00% Nec
	17	Sm ,	~		- Jun	weit	
	13-		617 = 07 E10 = 07		G 0920	1/2/2	foils lei.
Ì	14		F19 = 6,25		H	weit/	last
Jú		2000	Sm		0939	with	loile Pia
DJECT	HUDSON	RIVER PCB FACI	My STING	H	OLE NO.	GT Ø1	

	VAOP 6	od)	8
Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION	Moist	
		Dry	Wet
?		00	0
8.	3-> grove & A Sive CuAn The Mass Higher	00	
$\int$	PLASTICIONI MINTER COERSIUM- PARONA	00	
	PLASTICIONE SOFE CONSILVE DAMP  NO WELLSLAM. SOFE. THE SILT X15-26	00	
	C	00	
		00	0
		00	0
	į.	00	0
	•	00	<b>®</b>
	wet (0 10.1 Feet BGs	00	
		00	9
	·	00	8
		00	8
11.9	Beach Rg. S. Merell Somes. No MICLUSIONS, SILT	00	8
j	~ 25% Wet	00	9
122	· · · · · · · · · · · · · · · · · · ·	.00	0
		00	0
Dia	FORKSIVE; NO WILLUSIONS. SATURATED . [Leng SOFT	00	- 1
1	POHESIVE NO MICLUSIONS. SATURATED . [Leng SOFT	00	- 1
	14	0 0	
	CONTAINS MINON (1/2") SAO LEB & V. F.g. SAD	0 0	0
	at 15.8 715 9' BGs. SARAPTED. NO iSCE JSCENS	00	
	Sin7 ≈ 25 %	00	
		0 0	
		00	
1		00	
15.8		00	0
, 3.0			
		00	0
<del></del>		00	0

	DKILL	ING LOG (Contin					Hole Number
roject	Ca	inspecto	- •/	. /	^		Sheet Sh
Sea RGIA			ON NEKERSON	<b>,</b>		T	7 of 3
(A)	Depth (B)	Description of Materials (C)	Field Screening Results (D)	Geotech Sample or Core Box No. (E)	Analytical Sample No. (F)	Blow Count (G)	Remarks (H)
		CI+	i	NA			
		(	0	777			
	$\equiv$		9,3=0 C0=6		0139	1/1/1/2	
1	> =		C.P G			1/1/12	Pools
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and the second							
1	8 =	*					
		J.			.45	iscd/	-
To control to the state of the			9122 0 Pap20		0948	wall	
		CHISC	pp=0			with Court	local
1	9 =	•			J	-	
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		CH					
õ	<i>v</i> —			_	lain	1:_	
			p.0=06		1010	Will !	
Vines por the Portion of the			pro=06		-	wit Sile	
21		Sout from Resus	Ar		_ K	7/2	
		30720	m or ite	le 21.2	56%		
2							۷
2.	3						
23	) =====================================						
DJECT L	1	00		V H	IOLE NO.		<del></del>
H	UDSON A	IVER PEB FACILITI	1 STING	•	Co	5-6701	1

	PAge	8	4)	8
Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION		Aoistu Conte	nt
		Dry	Molst	Wet
			0	0
			0	0
			0	0
			0	0
-			0	0
-			0	0
			0	0
			0	0
13	5189 GRADE WE A SILTY CLM! DAK GRAY & CANG.		0	
-	SACIETIES MED. PLASTILITY! MED CERESTE	0	0	
			0 (	
18.	9 - Wet 1 the getting Cities are Englished	0	0 (	
	9-> WEAT OF The gitery Citesian Bray Cuty SATURGED; SOFT; Itaging PLASTOR	0	0	0
		0	0 (	
		0	0 (	
<u> </u>		0	0 (	
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21.2	> ferry SHATES Highton Travery LANGUARY DRY	0	0 (	
		0.0	0 (	
210	Augen Repisar.	0	) C	
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		0 (		

# Borehole Record for



- HTRW Drilling Log
- Narrative Lithologic Description and Well Construction Diagram
- Well Development Record
- Well Development -- Parameter Measurements
- Groundwater Purge and Sampling Log
- Investigation Derived Waste Inventory Sheet

NGIOG	District ANS Ac	Com Por	0<		Hole Number
		ci og loky			Sheet She
INT THE	GEOLOGIC /NOR-	WEIK DR	142 129		/ of /
		4. Location			
		THOMS	N NY		
				rill	
W/I n	IC A	8 Hole I continu	45C		
774	<i>1314</i>	Control	mide	- · S	d leave
2"X24	Sour Strow	9. Surface Eleva	- <u>100 9 3/</u> tion	6 76011	Fig CANA
	7-4-70-				
		10. Date Started		11. Date Compl	
		10/8/03		10/8/0	3
u		15. Depth Groun	dwater Encountere	ed /	N. C.
		16. Depth to Wat	er and Flansed Tin	on After Drilling Co	o Free CA
<b>,</b> '		Mr) France	votes ouse	Ostana orining Co	mpresed —
•		17. Other Water I	evel Management	s (Specify)	<del>,,,,</del>
		NA			
Disturbed	<u> </u>	Undisturbed		19. Total Number	er of Core Boxes
Ilveia VOC	Metala	Other (Same)	Other 10= **:	0	
,,,,,,,	wetats				21. Total Core Recovery
Backfilled	Monitoring Well	Other (Specify)			1,0
×			h	n Kellers	-
MENTS			SCALE:	/ NOIX	SCALE
			<del></del>	- 40	J471E
		77 2 3			<u> </u>
	6726	1000			
	<b>Ο</b> ⁄				
					1400-
		<u> </u>			7,00,20
		<b></b>			RIVER
			*		
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			<b>*</b>		₩
					AFR TH
<u></u>		<i>→</i>			10000
			2-A-4-	~ I	
	G CO	ge	·		
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	The them to	M)			
<u> </u>			1 1 1		
			<del></del>		
<u>_i_i_i_i</u>			: : : :		
			HOLENIA	•	
VOR DOR	मिटारायम इ.	,	HOLE NO	CP5-67,	スー
	Pert, The Start of	2. Drill Subcontractor  Geologic Not:  Geologic Not	2. Drill Subcontractor  Geologic Not Mathe Management of Control Homs  6. Manufacturer  C. ME  8. Hole Location  C. Wath  3. X 3. Y. Shut Stand  10. Date Started  10. Date Started  10. Proc. C.  11. Depth Grown  11. Other Water I  12. To Other Water I  13. Depth Grown  14. Disturbed  Undisturbed  Undisturbed  Undisturbed  Well Other (Specify)  MENTS  MENTS	2. Drill Subcontrator  Cept Cyt Not Method Russing  4. Location  1. Lo	2. Drill Subcontractor  (COLCY) ( NOR THERE Musing 4. Location  (A. Loca

Lock Number\_ Stick-up\_ SCREENED WELL OPEN-HOLE WELL Inner Casing Inner Casing Material\_ Material\_ Inner Casing Inside Inner Casing Inside Stick-up\_ Diameter\_\_\_\_inches Diameter\_ inches **GROUND SURFACE** Quantity of Material Used: Top of Grout Outer Casing Bentonite Diameter inches Pellets\_ Cement Borehole Top of Diameter. Sealat Borehole, inches Diameter Bedrock\_ Top of Sand Pack Cement/ Bentonite. Bottom of Rock Socket/ Top of Outer Casing\_ Screen at Screen Slot Size\_ Bottom of Inner Casing\_ Bottom of Screen Type \_ Screen at PVC\_ Corehole ☐ Stainless Steel Diameter\_ Pack Type/Size: Bottom of ☐ Sand\_☐ Gravel☐ Natural☐ Hole at\_ ft Bottom of Corehole Bottom of Sandpack at NOTE: See pages 136 and 137 for well construction diagrams

Well NOT CONTROLLED BRILLED BOREHOLD
FOR GEOTELLANIAN INFORMATION ONLY
-Callertes SASCE GPS-GT62-B @ 13:02
SUBMIT EN PARTICLE SIZE, ATTERBERG LIMIT AND
-Calledos SAME GPS-6762-B @ 13:02  SUBMIT EN PROTICE SITE, ATTENBERG LIMIT AND  MOISTURAL CONTENT ANTHYSES
- Breathing Zene TUA READINGS AU ZIPPM.

	DRIL	LING LOG (Continu					Hole Number
roject	A PAC	Inspecto	IN NICHERED		^		Sheet Shee
Elevation (A)	Depth (B)	Description of Materials (C)	Field Screening Results (D)	Geotech Sample or Core Box No. (E)	Analytical Sample No.	Blow Count (G)	
	/—	bryslan of 10	PD 10.1	NA		ગ્રીલે પા	50%
	2—	Gm	 0.0 235		913202	6/3/1/6	
	3	pr J	P.D = 35 F.D = 3.5 D. 3.5		B G#63-B	<i>Q 114</i> 3	5°%
	4		P10=33.4 F10= 2.6			3/2/3/4	80 C
·	5		P10=35.3			3) 3) 3) 3)	80 °C
OJECT	ð =	4			OLE NO.		·
	HUDGON 156A-R, AUG S	RIVER FACILITY	517120		GP 3	3- 6 <i>76</i> 2	

	· ·	Re		-
Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION		loistui >ontei	nt :
16		Dry	Moist	Wet
		0	0	0
			0	0
			0	0
0	Grave Glavelly saws of Sing =15%. Wet &		0	0
d	0,50:BCS TAPERING & MOSTURE TO DEVINES @	0	0	0
	1.0 BG Rouses gravel, And Angular, Surangular		0	0
21	CLASTS as well flastic system 10' Bis		0	0
	CIKZS & is 5 cm in length.		0	0
			0	0
2,2	Traver Man HARD To TAN SULT OPEN : 100 1 Marine		0	0
212	Trought, Mas. HARD TO TAN SILT, OPY; LOW SENSITY LOW COHESIONS NO PRESTURY CLAY 2102	10	0	0
<del>з</del>	The U.F.J. SAND : West- sources grans		0	0
£4.	TO IMP		0	0
- 40	2 SANDKILT MXTSNE, WILL- POUNDED V. F.J. SAND. SILT	10	0	0
	15 Blowd Tast. DAN.	10	0	0
	1) 13/ 300/ 2540- 1/14.		0	0
			0	0
		0	0	0
Ψ.			0	0
			0	0
			$\overline{\bigcirc}$	$\overline{\bigcirc}$
<b>\</b>	6.8: Miring (40%) pacessias: 3 mm polery 747		0	$\bigcirc$
T	Very well revinder			$\bigcirc$
	En rungs	1	0	0
-	OVA ON THA INSTANCE PIN ACRONIS are NOT MOTHERE OF	1	_	
1		-	0	
		10	0	_
-		10	0	$\sim$
-		$\frac{1}{2}$	0	$\circ$
1		$\frac{1}{2}$	0	$\mathcal{C}$
Ψ		10	0	0

	LING LOG (Contin					Hole Number
et Bigua PACI	inspector inspector	Tow Williams	s cod			Sheet Sheet
ration Depth A) (B)	Description of Materials (C)	Field Screening Results (D)	Geotech Sample or Core Box No. (E)	Analytical Sample No. (F)	Blow Count (G)	Remarks (H)
	5m		N/4		9/2/2/2	
	Sm Sw	P10=82			2/2/3/3	~ /
9_=	Sw	0-35				90% Rec.
	S <sub>M</sub>					Rec.
	) bg/			_		
10 -	5 m	03			2/2/3	
	SAM	P10=83 po=1.1			वाषारा	
// =	5w					90°C Plex
, =	Sm S	•		Andrews Andrews		Rec
	3m					
12=	5m				1./.	
		P10=4.5 F10=0		-	1/1/2/4	<b>0</b> 1
13-		FiD=				90% Rec
14-=	Weatheren Benice Shin	e 00 = 1.6			$\nearrow$	
	BOTTOM A 14.8' B	le Fro=0.0			50	10%
15-	14.2'6	GS				
,,						
JECT /	RIVER PG FACIO	(2.4.	₩    F	IOLE NO.	95- 67pg	

Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION	14	Moistu	ent
		Dry	Molst	Wet
		<b>®</b>	0	0
8	SAR SAND / SILV MINISTE AS ABOVE CATTLE	_ @	0	С
1	DISTINCT INTERIALS (1: 2" WIRE) of V.F.g	ୁ କ	0	0
V	SAME SAMO / SILT MITTLE AS ABOVE CATTLE  DISTINCT INTERIALS (1: 2" WHE) of V. F. G.  SAMO- F.G. SAMO BROWN PAMP DRY. NO MILLISTENS	_ \	0	O
		_ `		0
		<b>S</b>	0	0
-	DAMPNESS INCREASER at 10'-10.5'; Now Mass		9	0
			0	0
-			0	0
			0 (	0
			0	0
			0	0
			0	0
			0	
			0	
			0	
			0	기
			0	
			0	
•		0	0	
		0	0 (	
			0 0	
			0 0	
	Avora Refusal @ 14.2' BGS	0	0 0	
14.0	: Whatever Risely SAMO: When Firely I Amilaron	0	0	
	Augen Refusal @ 14.3' BGS :Western Gesell State; Very Furthy LANWACED  OBAP.	0	0	
		0	0 0	
		0	0 0	
		10	0 0	
		0	0 0	
	B-285			لـــ

# Borehole Record for 695-6183



- HTRW Drilling Log
- Narrative Lithologic Description and Well Construction Diagram
- Well Development Record
- Well Development -- Parameter Measurements
- Groundwater Purge and Sampling Log
- Investigation Derived Waste Inventory Sheet

Company Name		Die		and the			31 AUG
1. Company Name  1. Company Name  1. Description  1. Project 1  1. Description  1. Descripti	HTRW DRILLING		, ,	٠ ,			Hole Number
Efficiency 3 Environments of the Location (Linear Completed Service) (Linear Completed	t	2 D	rill Subcontractor	1 ty			(915 6793
STEPE LADAM & Sizera and Types of Drilling and Sampling Equipment  3 * X 2 " 50/17 \$20 cm Standuck  10. Date Standard  11. Date Completed  12. Overburden Thickness  13. Depth Drillied Into Rock  14. Total Depth of Hole  15. Geological Samples  Disturbed  16. Samples For Chemical Analysis  VOC  Metals  Undisturbed  17. So  18. Secondary of The Specify  19. Total Completed  19. Total Completed  19. Total Completed  19. Total Number of Core Boxes  19. Total Number of Core Boxes  20. Samples For Chemical Analysis  VOC  Metals  Undisturbed  19. Total Completed  19. Total Number of Core Boxes  21. Disposition of Hole  Backfilled  Monitoring Well  Other (Specify)  22. Signature of Inspecies  19. Total Number of Core Boxes  23. Signature of Inspecies  19. Total Number of Core Boxes  24. Disposition of Hole  Backfilled  Monitoring Well  Other (Specify)  23. Signature of Inspecies  19. Total Completed  19. Total Completed  19. Total Number of Core Boxes  21. Disposition of Hole  Backfilled  Monitoring Well  Other (Specify)  23. Signature of Inspecies  19. Total Completed  19. Total Completed  19. Total Number of Core Boxes  21. Disposition of Hole  19. Total Number of Core Boxes  22. Signature of Inspecies  19. Total Completed  19. Total Number of Core Boxes  22. Signature of Inspecies  19. Total Number of Core Boxes  19. Total Number of Core Boxes  22. Signature of Inspecies  19. Total Number of Core Boxes  19. Total Number of Core Boxes  22. Signature of Inspecies  19. Total Number of Core Boxes  19. Total Completed  19. Total Comp	Fig. 2 Fig. (B. )		N. 2000	· <b>/</b>			
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12. Overburden Thickness 17. 8	2457-11-1	'//		9. Surface Eleva	tion		V
12. Overburden Thickness 17, 8	d X 2 4 5pull 5por	N SAMPLER					
15. Depth Groundwater Encountered / 6 1/2  13. Depth Drilled Into Rock  14. Total Depth of Hole  17. 8'  16. Depth to Water and Biassed Time After Drilling Completed Not?  18. Geological Samples  Disturbed  19. Tother Water Level Managements (Specify)  18. Geological Samples  Disturbed  19. Total Number of Core Boxes  20. Samples For Chemical Analysis VOC  10. Metals  10. There (Specify)  11. Total Core (Specify)  12. Total Core (Specify)  13. Disposition of Hole  14. The Samples For Chemical Analysis VOC  15. Depth to Water and Biassed Time After Drilling Completed Not	,			10. Date Started	103	11. Date Comple	eted
13. Depth Drilled into Rock  14. Total Depth of Hole  17. 8'  16. Depth to Water and Elapsed Time After Drilling Completed  Not Report  18. Geological Samples  Disturbed  Undisturbed  19. Total Number of Core Boxes  20. Samples For Chemical Analysis VOC  Metals  Other (Specify)	12. Overburden Thickness			15 Depth Group	/U )	10/0/09	<u> </u>
13. Depth to Water and Blapsed Time After Drilling Completed  NOT RANGE  14. Total Depth of Hole  17. 6'  18. Geological Samples  Disturbed  20. Samples For Chemical Analysis  VOC Metals  Other (Specify)  Monitoring Well  Other (Specify)  CASH 5/32  Recovery A  Recovery A  ALLE: AT To SAME  CANTE  PROJECT  WO SAM RIVER  ROS FACHER  18. Depth to Water and Blapsed Time After Drilling Completed  NOT RANGE  19. Total Depth of Hole  19. Total Number of Core Boxes  19. Total Confection of Hole  20. Samples For Chemical Analysis  SALE: AT To SAME  CANTE  PROJECT  HOLE NO. FAS F 743		7.8 7		Depar Groun	awater Encountered	16.2	
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14. Total Depth of Hole  17. G'  18. Geological Samples  Disturbed  Undisturbed  Undisturbed  Undisturbed  Undisturbed  13  19. Total Number of Core Boxes  Disturbed  Undisturbed  Undistu				1		- Alter Minnig CO	INPIECES
18. Geological Samples  Disturbed  Undisturbed  Undisturbed  Undisturbed  13. 19. Total Number of Core Boxes  Other (Specify)  Dither (Spe	14. Total Depth of Hole				Level Managements	(Specify)	
20. Samples For Chemical Analysis VOC    Mortals		4		NIT	<b>-</b>	√- <i>v</i> <b></b>	
20. Samples For Chemical Analysis   VOC   Metals   Other (Specify)   Other (Specify)   Metals   Other (Specify)   Other (Specify)   Metals   Other (Specify)   Metals   Other (Specify)   Other (Specify)	18. Geological Samples	Disturbed		Undisturbed		19. Total Number	r of Core Boxes
PROJECT  THUSSIA BIVER PLS FACILTY STAY PROJECT  PROJECT  THUSSIA BIVER PLS FACILTY STAY PROJECT  THUSSIA BIVER PLS FACILTY STAY PROJECT  THUSSIA BIVER PLS FACILTY STAY PROJECT						0	
21. Disposition of Hole  LOCATION SKETCH/COMMENTS  SCALE: ST To SCALE  STALE: ST TO SCALE  STALE: ST TO SCALE  STALE: STALE: STALE  STALE: STALE: STALE: STALE: STALE  STALE: STA	20. Samples For Chemical Analysis	voc	Metals		1 1	1	21. Total Core
LOCATION SKETCH/COMMENTS  SCALE: NOT TO SCALE:  AN OR TH  PROJECT  HUDSON RIVER PLOS FACILITY SITTING PLOYECT  HOLE NO. GPS F 763	21 Dienocities of Units	Dealer 5	0			GRAIN SIZE	Recovery 4 %
PROJECT HUBSEN BIVER FLG FACILITY SITHS PLOYELT  SCALE: NOT TO SCALE  SCALE: NOT TO SCALE  CONTROL  GARGE  BY SCALE: NOT TO SCALE  CONTROL	ZI. DISPOSITION OF HOIE	Backfilled	Monitoring Well	Other (Specify)	- //	//	
PROJECT HUDSON RIVER PLG FACILITY SITHY PLOJECT  HOLE NO. GPS & 703		<del></del>	<u> </u>				
PROJECT HUDSEN BIVER PLG FACILITY SITTING PROJECT HOLE NO. GPS & 703	LOCATION SKETCH/COMMEN	ITS			SCALE:	TASCAL	· سے
PROJECT HUDSON RIVER PLOS FACILITY SITHING PLOSECT  HOLE NO. GPS & 703  HOLE NO. GPS & 703	1100-111		60	3-0-1		7	\:
COUNTY  COUNTY  COUNTY  GAS G 7 d 33  STEE  MICHINA PAGE FACING STONE PROJECT  HOLE NO. GPS F 7 d 3	1 NOK 1/7		<b>X</b> / /	67Ø			<u></u>
COUNTY  COUNTY  COUNTY  COUNTY  FOR G 7 d 33  STEE  RECURRORS GTQS  FOR G 7 d 33  FOR G 7 d 34  FOR			///	<u> </u>		\	
COUNTY  COUNTY  COUNTY  COUNTY  FOR G 7 & 33  STEE  MICHING GT ON  FOR G 7 & 33  PROJECT  HUDSON RIVER PLOS FACILITY SITTING Project  HOLE NO. GPS F 7 & 3	\		/ /			1	
COUNTY  COUNTY  COUNTY  COUNTY  FOR G 7 d 33  STEE  RECURRORS GTQS  FOR G 7 d 33  FOR G 7 d 34  FOR	N cas	1					· · · · · · · · · · · · · · · · · · ·
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PROJECT HUDSON RIVER PLOS FACILITY SITTING PROJECT HOLE NO. GPS F 793	KIVER		1.1				\2 \
PROJECT HUDSON RIVER PLOS FACILITY SITTING PROJECT HOLE NO. GPS F 793		1	<i>)</i> /				
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PROJECT HUDSON BLUER PLOS FACILITY SITTING PROJECT HOLE NO. GPS F 793	<del>-</del>		The			<del></del>	
PROJECT HUDSON RIVER PLOS FACILITY SITTING PROJECT HOLE NO. GPS F 793				CANAZ	<u> </u>		
PROJECT HUDSON BIVER PLO FACILITY SITING PROJECT HOLE NO. GAS F743	<u> </u>		1/1				
PROJECT HUDSON BIVER PLO FACILITY SITING PROJECT HOLE NO. GAS F793						<del></del>	
PROJECT HUDSON RIVER PLG FACILITY SITING PROJECT HOLE NO. GPS F 793					Ç <del>i</del>		
PROJECT HUDSON RIVER PLO FACILITY SITMY PROJECT HOLE NO. GPS F 793					) (G1	3-C-703	
PROJECT HUDSON RIVER PLO FACILITY SITING PROJECT HOLE NO. GPS F 743				2	11		<i>7</i>
PROJECT HUDSON RIVER PLO FACILITY SITING PROJECT HOLE NO. GPS F 743		1		<b>(3</b> )	+++	V	
PROJECT HUDSON RIVER PLO FACILITY SITING PROJECT HOLE NO. GPS F 793	<u> </u>		SITE			¥_	
PROJECT HUDSON RIVER PLO FACILITY SITING PROJECT HOLE NO. GPS F 793			Access Ross	6702 -	#	<b>(%)</b>	
PROJECT HUDSON RIVER PLB FACILITY SITING PROJECT HOLE NO. GPS F743							
PROJECT HUDSON RIVER PLB FACILITY SITING PROJECT HOLE NO. GPS F743							
PROJECT HUDSON RIVER PLB FACILITY SITING PROJECT HOLE NO. GPS F743		<u> </u>		PARO LET			
HUDSON RIVER PLB FACILITY SITING PROJECT GPS F793							
HUDSON RIVER PCG FACILITY SITING PROJECT GPS F793	PROJECT			<del></del>	HOLE NO		.x 3 : :
NG FORM FORE PLATE OA	HUDSON RIVER	PCB FACI	Utag Sita	u Proport		" (FPS F1	TØ3
ING FUNIVI DUDOTA, MUG 94 Y (Programme) PEPMI	NG FORM 5056-R, AUG 94		/ 3,7,	7	,		onent: CECW-EG

(Proponent: CECW-EG)

			17/72 J.J. 8
SCREENED	Lock Number WELL Inner Casing Material	OPEN-HOLE WELL	Stick-upft
Stick-upft	Inner Casing Inside Diameter inches GROUND SURFACE		Inner Casing Inside Diameterinches
Top of Grout	Quantity of Material Used: Bentonite Pellets		Outer Casing Diameterinches
Top of Seal atft	Boreholeinches Diameter		Borehole Diameterft
Top of Sand Packft Top of	Cement/ Bentonite		Bedrockft  Bottom of Rock Socket/
Screen attt	Screen Slot Size		Outer Casingft  Bottom of Inner Casingft
Screen atft  Bottom of	PVC Stainless Steel Pack Type/Size:		Corehole Diameter
Hole atft  Bottom of Sandpack at	Gravei		Bottom of Coreholeft
NOTE: See pages 136 and 137 for well con	estruction diagrams ORING ONLY; NO WELL	INSTALLED	
	7		
INTERI	POTECH SVITE SH	7 1	Me 1-2' DEPTE 15:18.
Calletes & 2	DENTICH SUITE S	Aucho Jean	The 12'-14
DO 14 11	TERVAL AT 15:16		5. 6/03-6
Due to en	COUNTERING A 40	PRIZEN - COSPE	NOT PREVIOUSLY
(HARATERIZ	e).		
- BreatAng Zon	e TVA READINGS a	ll 2/Ppm	· · · · · · · · · · · · · · · · · · ·

roject	~	ING LOG (Continu	r				Sheet She
La 1911 levation (A)	Depth (B)	Description of Materials (C)	Field Screening Results (D)	Geotech Sample or Core Box No. (E)	Analytical Sample No. (F)	Blow Count (G)	3 of 8 Remarks (H)
	/	MH GM SP	PID=0.45 FID=0.1	N/4	GP5- G763-A 15:18	43/5/7	95%
	3 4	to A Sm	0.13 $0.17$ $0.17$ $0.17$ $0.17$ $0.17$		GAS- GAS- GAS- B	3/45/5	50%
	4		P10= 0.95 P10= 1.2		6.95-67e3-	1/2/24	80C
		Sw Gm AGe (D)	910 = .95 P10 = 6.60		\$ 60×6403-	4/4/3/3	75%
O IECT	8 = 811	IER PCQ FAZILY	15: 36		HOLE NO.	P5 ETØ	

	10/4	P 9	9	18
Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION	1	oistulf onter	-
		Dry	Molst	Wet
		0	0	0
		0	0	0
0		0	0	0
i		0	0	O
0.5	Organic Stry Corm; borry; Gravel 1861 DAMP	Ø	0	
	-0.75 GLOWN GLEY CKAY	φ	0	
07-	>09 Getvel/sicotsAm MYCARE, Blown DAD	$ \phi $	0	
	Some looks HARD Pesses are Angelo, Ans	$\phi$	0	
	Sur Angular	p	0	$\circ$
0,9	+ 1.5 bises Sono/ good graved mixTure: Appears &	b.		$\circ$
	Possibly Be Fire Agular gravel cinsts. OR,	$ \phi $	0	
		φ	0	$\circ$
15	-> Brown SANDY SIUTO LOCI Caltesian HARDS AND Bry	φ		
	1174 PLASTUTTY, OFIND. SAND IS VIF. 9 Brown	φ	0	$\circ$
	SAM	φ (		
		9	0	$\circ$
4		q	0	
5.8	Brown Str Eg SANO, F.G ) (1976 SILT; DAMP, NO	9		
Na.	INSCLUSIONS	9	0	
		ф	0	
		ф	0	
	GRAPES & COARSON SAM at 6.5, THE BALLE	ф	0	
	Five Aro meshin-grawes 5Ao at 6.8	$\phi$	0	0
	NO P23 Bles	b		0
8,8	ROUNDED GRAND (SAND MIXTURE, TRACE SIT, (25%)	b		0
1	POOLLY SOLTED NE STRATION WAN INTERVAL	b	0	0
¥	DAND, 917 AND SAND ARE BROWN AD COHESON	0	0	0
	NO PIASTILLES.	6	0	0
		$\phi$	0	0
		R	0	0

	DRILL	ING LOG (Contin	nuation Sheet)				Hole Number
oject	00	inspecto			_	•	Sheet Shee
orgit!	1		IN Wicholson		<u> </u>	7	5 of 8
ievation (A)	Depth (B)	Description of Materials (C)	Field Screening Results (D) film	Geotech Sample or Core Box No. (E)	Analytical Sample No. (F)	Blow Count (G)	Remarks (H)
	=	C.1		NA		111	•.
		$S\omega$	n.0 4.65	1	GP5-	4/6/7/7	
		$\checkmark$	pip = 1.65 pip = 1.1		G-763-	1 "	
	9	GP	giv- ii		G763-		7=0/
		o r					75% Rec.
		(	15:52			***************************************	Kee.
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	7		3 77		cor		
			PID = 0.22 FID = 0.6		CP5 G763- F	ما ما المام	•
			F1D=0.6		F	913141	
2 0000	//_=		• -		,		Col
			,				Gold Rec.
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	D = 0	<b>V</b>	-, , , , , ,				
	-	Ì	0 0			1.11.	
			PID= 0-15		e 00	7686	- 01
			FU= 0-42		HY		50%
	B =				G7\$3		Rec
			`		G		
4		$\Psi$			1620		
	=				1640		
	15			1			
	=		PID = 0.15		GP5 G1\$3 H	اطارار	
		SPA SM	F10 = 0.4		6193	5/1/4/	Tils Rec.
		1			n		50%
	72				10		Rec.
					165.14		
		1.					
	16	<u> </u>		V			
JECT		Dues Ca 2		H	IOLE NO.	0 = 0 =	
	HURGON 56A-R, AUG 94	RIVER PEB FA	elly SITIN	ig	υ.	1567	Ø3

Depth(feet).  NARRATIVE LITHOLOGIC DESCRIPTION  89 See ascription with an page 4	Moisture Content  AG  O  O  O  O  O  O  O  O  O  O  O  O  O
	0000
	_
10'-12' : CiASTS WEARSO W SIZO & 3 Cm Well- River	, ,
10'-12' : CiASTS WEARSO W SIZO & 3 Cm Well- River	
10'-12' CiASTS WEARSO IN SIZE & 3 Can well- River	_ 000
10'-12' CiASTS WEARS IN SIZE & 3 Can well- River	φοο
10'-12' CiASTS WEARS IN SIZE & 3 Cm Well-River	_ 000
10'-12' CLASTS WEATHER IN SIZE & 3 Can well-Rosing	_ 000
74,000	
SUB ROWDER; MOSTLY DIARTZ CLASTS.	
ARY.	
	_ 000
	_ 000
12.9-> 14 SAND 15 more Angelon; Cess Rownson	
12-9- 14 SAM 15 more Angular; Cess Roundary 51/10 Well-Jupes.	
	d,o o
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144 NOWOT CHANGE & GARD GRANE SAND GRAND 1020	000
144 ABOURT CHANGE & Well graves SAND; grand 10%; ORy 5 one Fives	000
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Elevation	TIME I H	CLP/L Inspecto	Jan Nicht Little	Sond ,	^		GPS - G-783 Sheet Sheet Tof 8
(A)	Depth (B)	Description of Materials (C)	Field Screening Results (D)	Geotech Sample or Core Box No.	Analytical Sample No. (F)	Biow Count (G)	
	17-11	GP  CH  CC	P1D= 025 F1D= .0-38	N/A	GP5- 6703 <b>T</b> 16:29	7/3/50	502
	19—	Before  Better  SHARE  BOTTOM of	010=6.1 8.0 0.3 Aola @ (	7.8 863	6.73-5 6.73-5	C/4/50 as	3.6
	20-				7 8 3 //	10.	
	22						
ROJECT	23 ====================================				OLE NO.		

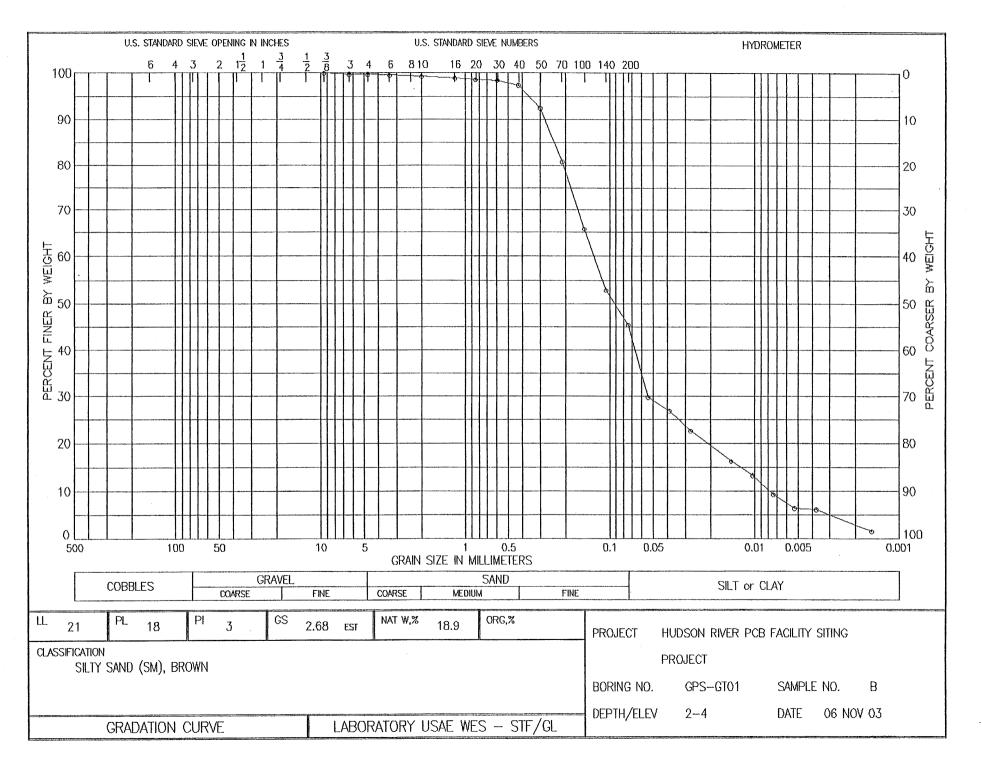
	PAge 8 1/8		oistu	re
Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION	C	onte	nt
		Dry	Molst	Wet
16-	16.7 well großen And As Descholas Assoc		0	0
-acamsur-whi			0	0
16.2	> 17.0 GARRELLY SAND ; POUNDED CLESTS & I CA)	Q	0	P
	WHAT TRACE SUT.	0	0	0
	WATER @ 16.3' BGS	0	0	9
<u> 17</u>	Wet sing enty tracky petersine,	0	0	9
¥		0	0	$\phi$
17.2	Wet gravel / cuty/ san MIXTORE. ROSMED Clesing	0	0	фI
	Wild GRADEL (CUAY (SAM MIXTURE. ROSMED Cluster ed Sumo SAALE FREGEROUTS BY OWN.	0	0	ф
7		0	0	ф
V		0	0	фI
17.8	WEATHER SCHER SHale, OAMP. Highling TRACTURE	0	0	0
		0	0	
		0	0	
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# Georgia Pacific/New York State Canal Corporation Site Supplemental Geotechnical Information

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#### TABLE 1 SUMMARY PROJECT: HUDSON RIVER PCB FACILITY SITING PROJECT FILE NO.: 0204 DATE: CLASSIFIED BY: AT AND LDD LOCATION NAT. SAMPLE ELEV. OR OR SAMPLE DESCRIPTION W. C. % BORING DEPTH LL/PL NO. GPS-GT01 0-2 Α 14.0 GPS-GT01 В 2-4 21/18 SILTY SAND (SM), BROWN 18.9 GPS-GT01 D 6-8 23.9 Ε GPS-GT01 8-10 28.9 F GPS-GT01 10-12 34.8 GPS-GT01 G 12-14 23.0 GPS-GT01 Н 14-16 30.6 GPS-GT01 16-18 24.1 GPS-GT01 18-20 24.7 GPS-GT01 Κ 20-21 23.3 В 2-4 GPS-GT02 25/21 SANDY SILTY CLAY (CL), BROWN 16.5 NP GPS-GT03 Α 0.9-1.5 GRAVELLY SILTY SAND (SM), GRAY 16.7 GPS-GT03 В 2-4 22.8 GPS-GT03 С 4-6 15.5 GPS-GT03 D 6-8 5.7 Ε GPS-GT03 8-10 4.3 F GPS-GT03 10-12 4.7 GPS-GT03 G 12-14 NP GRAVELLY SILTY SAND (SW-SM), GRAY 5.7 GPS-GT03 Н 14-16 4.9 GPS-GT03 1 16-17 28.6

REMARKS:



PROJECT: HUDSON RIVER PCB FACILITY SITING

PROJECT

BORING: GPS-GT01 SAMPLE: B DF: 0204 .DAT

DEPTH: 2-4 DATE: 06 NOV 03

LL: 21 PL: 18 PI: 3 GS: 2.68 est WC: 18.90

CLASSIFICATION: 144

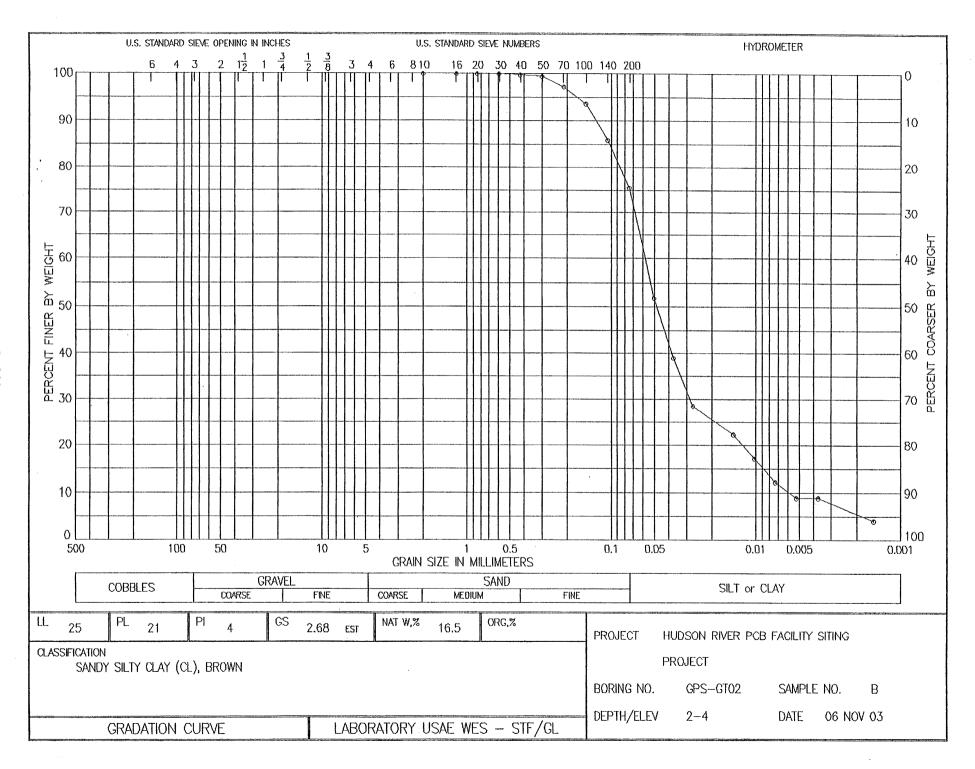
SILTY SAND (SM), BROWN

TOTAL WEIGHT OF SAMPLE: 513.8 gms. PARTIAL WEIGHT AFTER SPLIT: 59.5 gms.

WEIGHTS	SIEVE SIZE	OPENING	PERCENT	PERCENT
gm.	or NUMBER	mm	FINER	COARSER
. 0	3/8 in	9.500	100.0	.0
1.2	No 3	6.350	99.8	.2
. 0	No 4	4.750	99.8	. 2
.9	No 6	3.350	99.6	. 4
1.4	No 10	2.000	99.3	.7
. 2	No 16	1.180	99.0	1.0
. 4	No 20	.850	98.7	1.3
.5	No 30	.600	98.5	1.5
1.1	No 40	.425	97.5	2.5
4.1	No 50	.300	92.5	7.5
11.1	No 70	.212	80.8	19.2
20.1	No 100	.150	65.8	34.2
27.8	No 140	.106		47.1
32.3	No 200	.075	45.4	54.6
HYDROMETER:				
RDGS	TEMP			
11.1	23.0	.0542		70.2
10.0	23.0	.0387		73.1
8.4	23.0	.0277		77.4
6.0	23.0	.0146		83.8
4.9	23.0	.0104		86.7
3.4	23.0	.0074		90.7
2.3	23.0	.0053		93.6
2.1	23.5	.0038		93.9
.5	23.0	.0016	1.6	98.4

PERCENT GRAVEL = .2 PERCENT SAND = 54.4 PERCENT FINES = 45.4

EDE



PROJECT: HUDSON RIVER PCB FACILITY SITING

PROJECT

BORING: GPS-GT02 SAMPLE: B DF: 0204 .DAT

DEPTH: 2-4 DATE: 06 NOV 03

LL: 25 PL: 21 PI: 4 GS: 2.68 est WC: 16.50

CLASSIFICATION: 162

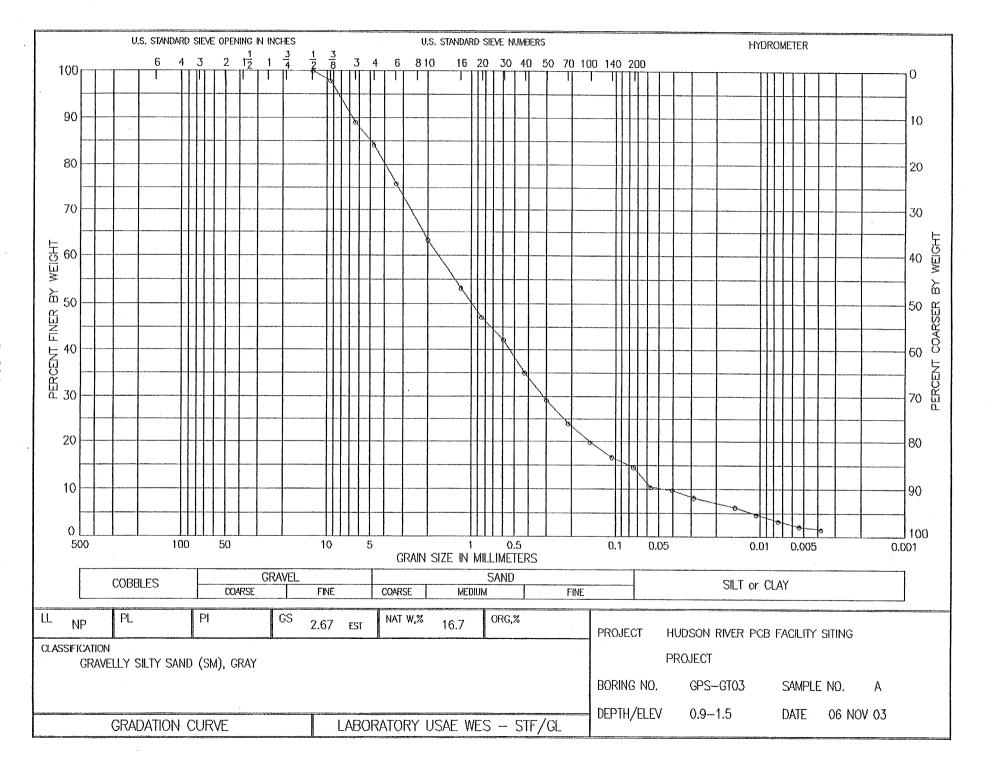
SANDY SILTY CLAY (CL), BROWN

TOTAL WEIGHT OF SAMPLE: .0 gms.
PARTIAL WEIGHT AFTER SPLIT: 58.8 gms.

WEIGHTS	SIEVE SIZE	OPENING	PERCENT	PERCENT
gm.	or NUMBER	mm	FINER	COARSER
. 0	No 10	2.000	100.0	.0
. 0	No 16	1.180	100.0	.0
. 0	No 20	.850	100.0	.0
. 0	No 30	.600	100.0	.0
.1	No 40	.425	99.8	. 2
. 3	No 50	.300	99.5	.5
1.6	No 70	.212	97.3	2.7
3.7	No 100	.150	93.7	6.3
8.3	No 140	.106	85.9	14.1
14.4	No 200	.075	75.5	24.5
HYDROMETER:				
RDGS	TEMP			
19.0	23.0	.0505	51.8	48.2
14.3	23.0	.0373	39.1	60.9
10.4	23.0	.0273	28.5	71.5
8.1	23.0	.0144	22.2	77.8
6.2	23.0	.0103	17.1	82.9
4.4	23.0	.0074	12.2	87.8
3.2	23.0	.0053	9.0	91.0
3.1	23.5	.0037	9.0	91.0
1.4	23.0	.0015	4.1	95.9

PERCENT GRAVEL = .0 PERCENT SAND = 24.5 PERCENT FINES = 75.5

EDE



PROJECT: HUDSON RIVER PCB FACILITY SITING

PROJECT

BORING: GPS-GT03 SAMPLE: A DF: 0204 .DAT DEPTH: 0.9-1.5 DATE: 06 NOV 03

NON-PLASTIC GS: 2.67 est WC: 16.70

CLASSIFICATION: 180

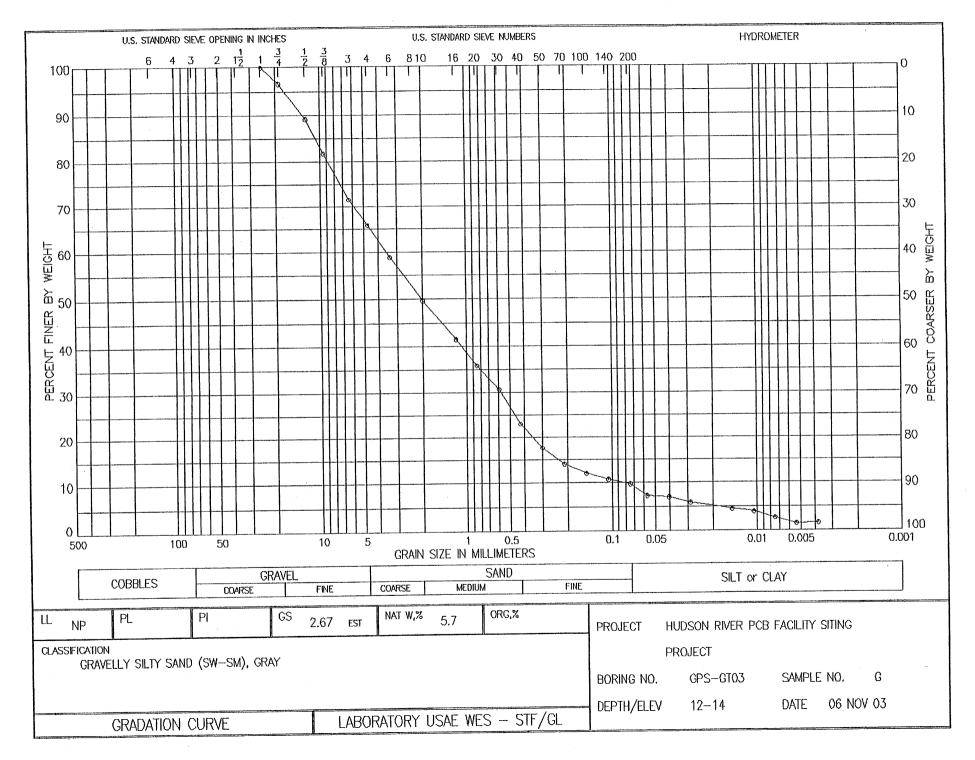
GRAVELLY SILTY SAND (SM), GRAY

TOTAL WEIGHT OF SAMPLE: 553.6 gms. PARTIAL WEIGHT AFTER SPLIT: 51.5 gms.

WEIGHTS         SIEVE SIZE         OPENING         PERCENT         PERCENT           gm.         or NUMBER         mm         FINER         COARSE           .0         1/2 in         12.500         100.0         .0           11.2         3/8 in         9.500         98.0         2.0           49.3         No         3         6.350         89.1         10.9           27.2         No         4         4.750         84.2         15.8           46.1         No         6         3.350         75.8         24.2           69.4         No         10         2.000         63.3         36.7           8.2         No         16         1.180         53.2         46.8           13.2         No         20         .850         47.1         52.9	
0 1/2 in 12.500 100.0 .0 11.2 3/8 in 9.500 98.0 2.0 49.3 No 3 6.350 89.1 10.9 27.2 No 4 4.750 84.2 15.8 46.1 No 6 3.350 75.8 24.2 69.4 No 10 2.000 63.3 36.7  8.2 No 16 1.180 53.2 46.8 13.2 No 20 .850 47.1 52.9	iR
11.2 3/8 in 9.500 98.0 2.0 49.3 No 3 6.350 89.1 10.9 27.2 No 4 4.750 84.2 15.8 46.1 No 6 3.350 75.8 24.2 69.4 No 10 2.000 63.3 36.7 8.2 No 16 1.180 53.2 46.8 13.2 No 20 .850 47.1 52.9	
49.3 No 3 6.350 89.1 10.9 27.2 No 4 4.750 84.2 15.8 46.1 No 6 3.350 75.8 24.2 69.4 No 10 2.000 63.3 36.7  8.2 No 16 1.180 53.2 46.8 13.2 No 20 .850 47.1 52.9	
27.2 No 4 4.750 84.2 15.8 46.1 No 6 3.350 75.8 24.2 69.4 No 10 2.000 63.3 36.7 8.2 No 16 1.180 53.2 46.8 13.2 No 20 .850 47.1 52.9	
46.1 No 6 3.350 75.8 24.2 69.4 No 10 2.000 63.3 36.7 8.2 No 16 1.180 53.2 46.8 13.2 No 20 .850 47.1 52.9	
69.4 No 10 2.000 63.3 36.7 8.2 No 16 1.180 53.2 46.8 13.2 No 20 .850 47.1 52.9	
13.2 No 20 .850 47.1 52.9	
13.2 No 20 .850 47.1 52.9	
17.2 No 30 .600 42.2 57.8	
23.0 No 40 .425 35.0 65.0	
27.8 No 50 .300 29.1 70.9	
32.0 No 70 .212 24.0 76.0	
35.4 No 100 .150 19.8 80.2	
38.0 No 140 .106 16.6 83.4	
39.7 No 200 .075 14.5 85.5	
HYDROMETER:	
RDGS TEMP	
5.2 23.0 .0571 10.4 89.6	
4.9 23.0 .0404 9.8 90.2	
4.1 23.0 .0288 8.3 91.7	
3.1 23.0 .0150 6.3 93.7	
2.3 23.0 .0107 4.7 95.3	
1.6 23.0 .0076 3.3 96.7	
1.0 23.0 .0054 2.2 97.8	
.6 23.5 .0038 1.6 98.4	

PERCENT GRAVEL = 15.8 PERCENT SAND = 69.7 PERCENT FINES = 14.5

EDE



PROJECT: HUDSON RIVER PCB FACILITY SITING

PROJECT

SAMPLE: G DF: 0204 .DAT BORING: GPS-GT03

DATE: 06 NOV 03 DEPTH: 12-14

NON-PLASTIC GS: 2.67 est WC: 5.70

CLASSIFICATION: 198

GRAVELLY SILTY SAND (SW-SM), GRAY

TOTAL WEIGHT OF SAMPLE: 1494.0 gms. PARTIAL WEIGHT AFTER SPLIT: 57.4 gms.

WEIGHTS gm0 49.6 112.0 111.0 151.2 85.6 104.5 138.1	SIEVE SIZE or NUMBER 1 in 3/4 in 1/2 in 3/8 in No 3 No 4 No 6 No 10	OPENING mm 25.000 19.100 12.500 9.500 6.350 4.750 3.350 2.000	96.7 89.2 81.8 71.6	PERCENT COARSER .0 3.3 10.8 18.2 28.4 34.1 41.1 50.3
9.4 15.9 21.9 30.8 37.1 41.2 43.5 45.0 46.1 HYDROMETER:	No 16 No 20 No 30 No 40 No 50 No 70 No 100 No 140 No 200	1.180 .850 .600 .425 .300 .212 .150 .106	35.9 30.7 23.0 17.6 14.0	58.5 64.1 69.3 77.0 82.4 86.0 88.0 89.3 90.2
RDGS 5.2 5.0 4.2 3.2 2.8 1.9 1.0	TEMP 23.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0	.0571 .0404 .0288 .0150 .0106 .0076 .0054	7.1 5.9 4.6	92.7 92.9 94.1 95.4 96.0 97.2 98.5 98.3

PERCENT GRAVEL = 34.1 PERCENT SAND = 56.1 PERCENT FINES = 9.8

D60 = 3.57

D30 = .58 D10 = .08 CU = 43.38

CC = 1.16