

United States Environmental Protection Agency
EPA New England
One Congress Street, Suite 1100
Boston, MA 02114-2023

July 19, 2000

RECEIVED
U.S. ENVIRONMENTAL PROTECTION AGENCY
JULY 19 2000
BY

Mr. Andrew T. Silfer, P.E.
Corporate Environmental Programs
General Electric Company
100 Woodlawn Avenue
Pittsfield, Massachusetts 01201

**RE: Conditional Approval of GE's Proposal to Address the Presence of DNAPL in Cell G1
Upper ½-Mile Reach Removal Action
General Electric-Housatonic River Site, Pittsfield, Massachusetts**

Dear Mr. Silfer:

On July 11, 2000, GE submitted a document entitled *GE-Pittsfield/Housatonic River Site, Upper ½-Mile Reach Removal Action (GECD800), Results of Cell G1 DNAPL Investigation and Proposal to Address the Presence of DNAPL in Cell G1*. This document is subject to the terms and conditions specified in the Consent Decree that was lodged in District Court on October 7, 1999 (the "Consent Decree"). Pursuant to Paragraph 73(b) of the Consent Decree, EPA, after consulting with the Massachusetts DEP, approves the above-referenced submittal subject to the following conditions:

1. GE states on page 3 of the submittal that the actual alignment of the proposed containment barrier may be adjusted in the field. EPA believes that some adjustment may be necessary to ensure that there is a smooth transition of riverbank restoration activities both upstream and downstream of the proposed containment barrier. Therefore, the final alignment of the containment barrier shall be subject to EPA approval.
2. GE shall excavate a minimum of one to three inches of sediments throughout the entire section of Cell G1 (per discussions with Bill Horne, GE, regarding the temporary discontinuance of dewatering in Cell G1).
3. EPA observed DNAPL in the current surficial sediments at locations G1SB-6 and G1SB-12 prior to and during the DNAPL investigation program. Therefore, GE shall extend the initial areas to be excavated upstream at least as far as locations G1SB-6 and G1SB-12. Furthermore, if DNAPL is observed in areas upstream of these two locations, then the lateral extent of the excavation may need to be extended all the way to the upstream cut-off wall.

4. Page Section 3, Section IV of the Report states that "A portion of this area will also be excavated further to an elevation of 965." The area to be excavated to elevation 965 is not clearly identified on any of the Figures. Pursuant to discussions with Bill Horne, GE, this is the area described on Figure 6 as the "proposed additional excavation area to a maximum elevation of 963' based on visual observations".
5. GE shall conduct a post-excavation survey of the remaining portion of Cell G1 and the 25-foot long section of Cell G2 to document the actual depths of excavation and to confirm that the minimum depths of excavation specified in the Upper ½-Mile Reach Removal Action Work Plan have been achieved. Note that EPA and GE have not agreed on the minimum excavation depths (exclusive of DNAPL) required in the area adjacent to outfall 005B in Cell G1 and that GE has not yet submitted the baseline survey and proposed excavation depths for the 25-foot long section of Cell G2. GE and EPA need to agree on the minimum depths of excavation in all areas of Cell G1 and in the 25-foot long section of Cell G2 prior to implementing the proposed plan.
6. The Upper ½-Mile Reach Removal Action Work Plan specifies that a sediment cap isolation layer sample be collected at the base of the excavation in the general vicinity of boring G1-SB9. This is an area where excavation may proceed to an elevation of 963 feet above mean sea level (AMSL). If it is impractical to collect a representative sample in this location, then EPA will select an alternate location within Cells G1/G2. In addition, pursuant to Section 7.4.4 of the Upper ½-Mile Reach Removal Action Work Plan, EPA may require an additional sediment cap isolation layer sample be collected in areas where residual DNAPL remains.
7. GE shall install three monitoring wells as shown on the attached Figure. The two perimeter wells shall be advanced to approximately 963 feet AMSL and the screens shall extend from approximately 963 feet AMSL to 973 feet AMSL. The center well shall be advanced to the top of till and shall be screened from the top of till to approximately 973 feet AMSL. GE shall initially monitor the perimeter wells on a weekly basis to confirm that DNAPL is not present outside the limits of the containment barrier. GE shall also monitor the center well for the presence of DNAPL and shall assess and propose whether or not additional investigative or response actions are required. The timing of the well installation shall be coordinated with the proposed DNAPL response actions in order to prevent the well installation from adversely affecting the sheetpile sealant/grout.
8. EPA's contractor, Roy F. Weston, prepared their own boring logs/notes based on observations made during the DNAPL investigation. These logs differ from those submitted by GE and are included as attachment in lieu of EPA commenting on the accuracy of each individual boring log, location of NAPL, sample description etc. provided by GE. No response from GE is expected to address these differences.

EPA's approval of this submittal does not preclude EPA from requiring additional investigations

and response activities pursuant to the Consent Decree and/or the *Statement of Work for Removal Actions Outside the River* (Appendix E to the Consent Decree) in the future. Furthermore, in the event the Consent Decree does not get entered by the Court, EPA reserves the right to require additional investigations and response activities pursuant to its statutory and regulatory authorities reserved under the Consent Decree including, but not limited to, the Resource Conservation and Recovery Act ("RCRA") and the Comprehensive Environmental Response, Compensation and Liability Act ("CERCLA").

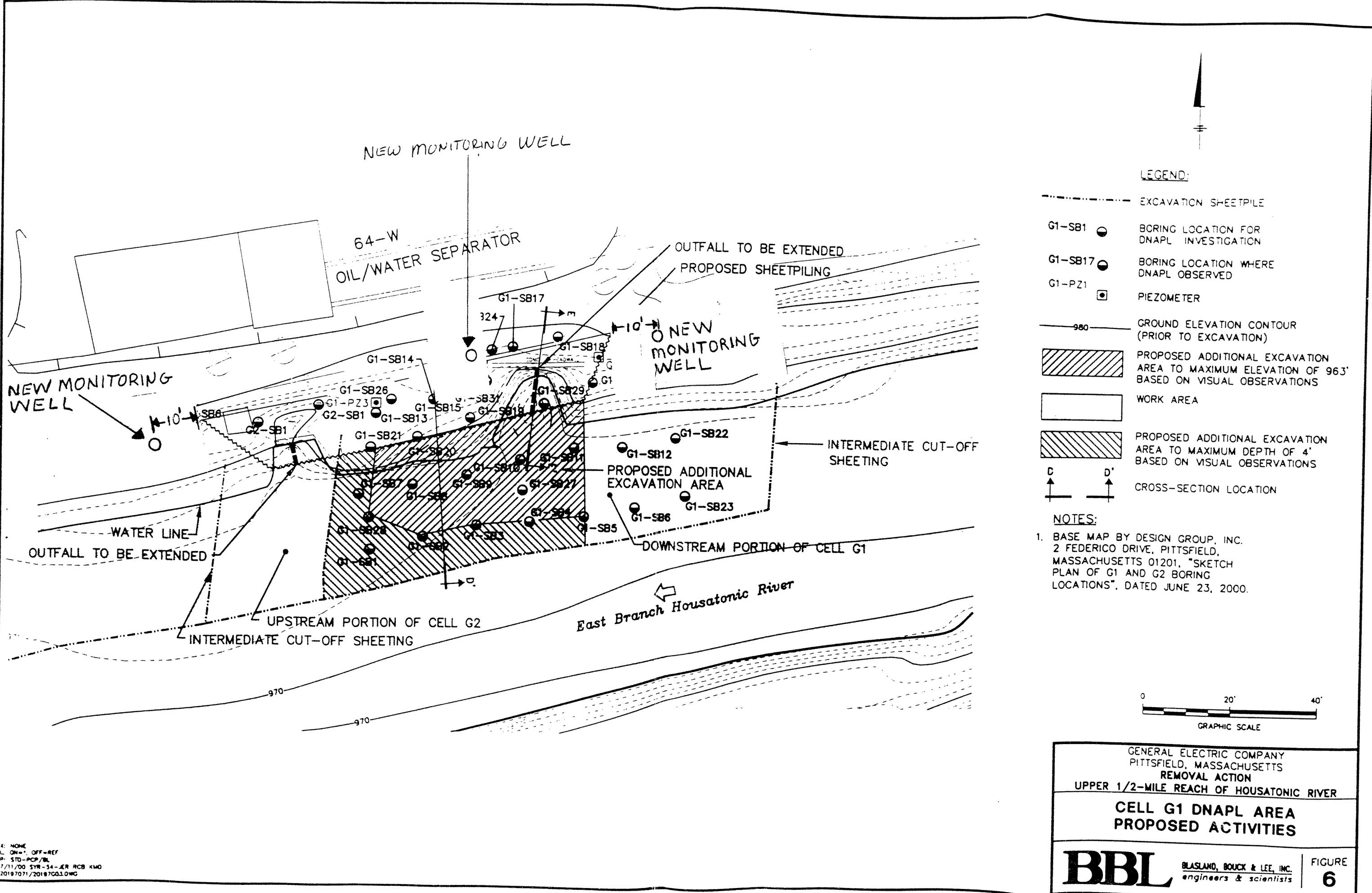
If you have any questions, please contact me at (617) 918-1282 or (413) 236-0969.

Sincerely,


Dean Tagliaferro

Attachments

cc: Tim Conway, EPA
Bryan Olson, EPA
Holly Inglis, EPA
Mike Nalipinski, EPA
Ray Goff, USACE
K.C. Mitkevicius, USACE
Dawn Veilleux, Weston
Alan Weinberg, DEP
Robert Bell, DEP
J. Lyn Cutler, DEP
Sue Steenstrup, DEP
James Milkey, MA AG
Thomas La Rosa, MA EOEA
Mark Barash, DOI
Anton Giedt, NOAA
Charles Fredette, CT DEP
Mayor Gerald Doyle, City of Pittsfield
Andrew Thomas, GE
William Horne, GE
Public Information Repositories
Site File



GEOLIS Notes and Sketches Form

COMPANY:	R.F. Weston Inc.	LOCATION NO.:	CBLG61 - HR61-SB8
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GRAIN GRAVEL w/ COARSE SAND • VARIOUS LULUAR. • NO ODOR / SHEEN			3.0'				3.4'				3.8'				4.2'				4.6'				5.0'				5.4'				5.8'				6.2'				6.6'				7.0'				7.4'				7.8'				8.2'				8.6'				9.0'				9.4'				9.8'				10.2'				10.6'				11.0'				11.4'				11.8'				12.2'				12.6'				13.0'				13.4'				13.8'				14.2'				14.6'				15.0'				15.4'				15.8'				16.2'				16.6'				17.0'				17.4'				17.8'				18.2'				18.6'				19.0'				19.4'				19.8'				20.2'				20.6'				21.0'				21.4'				21.8'				22.2'				22.6'				23.0'				23.4'				23.8'				24.2'				24.6'				25.0'				25.4'				25.8'				26.2'				26.6'				27.0'				27.4'				27.8'				28.2'				28.6'				29.0'				29.4'				29.8'				30.2'				30.6'				31.0'				31.4'				31.8'				32.2'				32.6'				33.0'				33.4'				33.8'				34.2'				34.6'				35.0'				35.4'				35.8'				36.2'				36.6'				37.0'				37.4'				37.8'				38.2'				38.6'				39.0'				39.4'				39.8'				40.2'				40.6'				41.0'				41.4'				41.8'				42.2'				42.6'				43.0'				43.4'				43.8'				44.2'				44.6'				45.0'				45.4'				45.8'				46.2'				46.6'				47.0'				47.4'				47.8'				48.2'				48.6'				49.0'				49.4'				49.8'				50.2'				50.6'				51.0'				51.4'				51.8'				52.2'				52.6'				53.0'				53.4'				53.8'				54.2'				54.6'				55.0'				55.4'				55.8'				56.2'				56.6'				57.0'				57.4'				57.8'				58.2'				58.6'				59.0'				59.4'				59.8'				60.2'				60.6'				61.0'				61.4'				61.8'				62.2'				62.6'				63.0'				63.4'				63.8'				64.2'				64.6'				65.0'				65.4'				65.8'				66.2'				66.6'				67.0'				67.4'				67.8'				68.2'				68.6'				69.0'				69.4'				69.8'				70.2'				70.6'				71.0'				71.4'				71.8'				72.2'				72.6'				73.0'				73.4'				73.8'				74.2'				74.6'				75.0'				75.4'				75.8'				76.2'				76.6'				77.0'				77.4'				77.8'				78.2'				78.6'				79.0'				79.4'				79.8'				80.2'				80.6'				81.0'				81.4'				81.8'				82.2'				82.6'				83.0'				83.4'				83.8'				84.2'				84.6'				85.0'				85.4'				85.8'				86.2'				86.6'				87.0'				87.4'				87.8'				88.2'				88.6'				89.0'				89.4'				89.8'				90.2'				90.6'				91.0'				91.4'				91.8'				92.2'				92.6'				93.0'				93.4'				93.8'				94.2'				94.6'				95.0'				95.4'				95.8'				96.2'				96.6'				97.0'				97.4'				97.8'				98.2'				98.6'				99.0'				99.4'				99.8'				100.2'				100.6'				101.0'				101.4'				101.8'				102.2'				102.6'				103.0'				103.4'				103.8'				104.2'				104.6'				105.0'				105.4'				105.8'				106.2'				106.6'				107.0'				107.4'				107.8'				108.2'				108.6'				109.0'				109.4'				109.8'				110.2'				110.6'				111.0'				111.4'				111.8'				112.2'				112.6'				113.0'				113.4'				113.8'				114.2'				114.6'				115.0'				115.4'				115.8'				116.2'				116.6'				117.0'				117.4'				117.8'				118.2'				118.6'				119.0'				119.4'				119.8'				120.2'				120.6'				121.0'				121.4'				121.8'				122.2'				122.6'				123.0'				123.4'				123.8'				124.2'				124.6'				125.0'				125.4'				125.8'				126.2'				126.6'				127.0'				127.4'				127.8'				128.2'				128.6'				129.0'				129.4'				129.8'				130.2'				130.6'				131.0'				131.4'				131.8'				132.2'				132.6'				133.0'				133.4'				133.8'				134.2'				134.6'				135.0'				135.4'				135.8'				136.2'				136.6'				137.0'				137.4'				137.8'				138.2'				138.6'				139.0'				139.4'				139.8'				140.2'				140.6'				141.0'				141.4'				141.8'				142.2'				142.6'				143.0'				143.4'				143.8'				144.2'				144.6'				145.0'				145.4'				145.8'				146.2'				146.6'				147.0'				147.4'				147.8'				148.2'				148.6'				149.0'				149.4'				149.8'				150.2'				150.6'				151.0'				151.4'				151.8'				152.2'				152.6'				153.0'				153.4'				153.8'				154.2'				154.6'				155.0'				155.4'				155.8'				156.2'				156.6'				157.0'				157.4'				157.8'				158.2'				158.6'				159.0'				159.4'				159.8'				160.2'				160.
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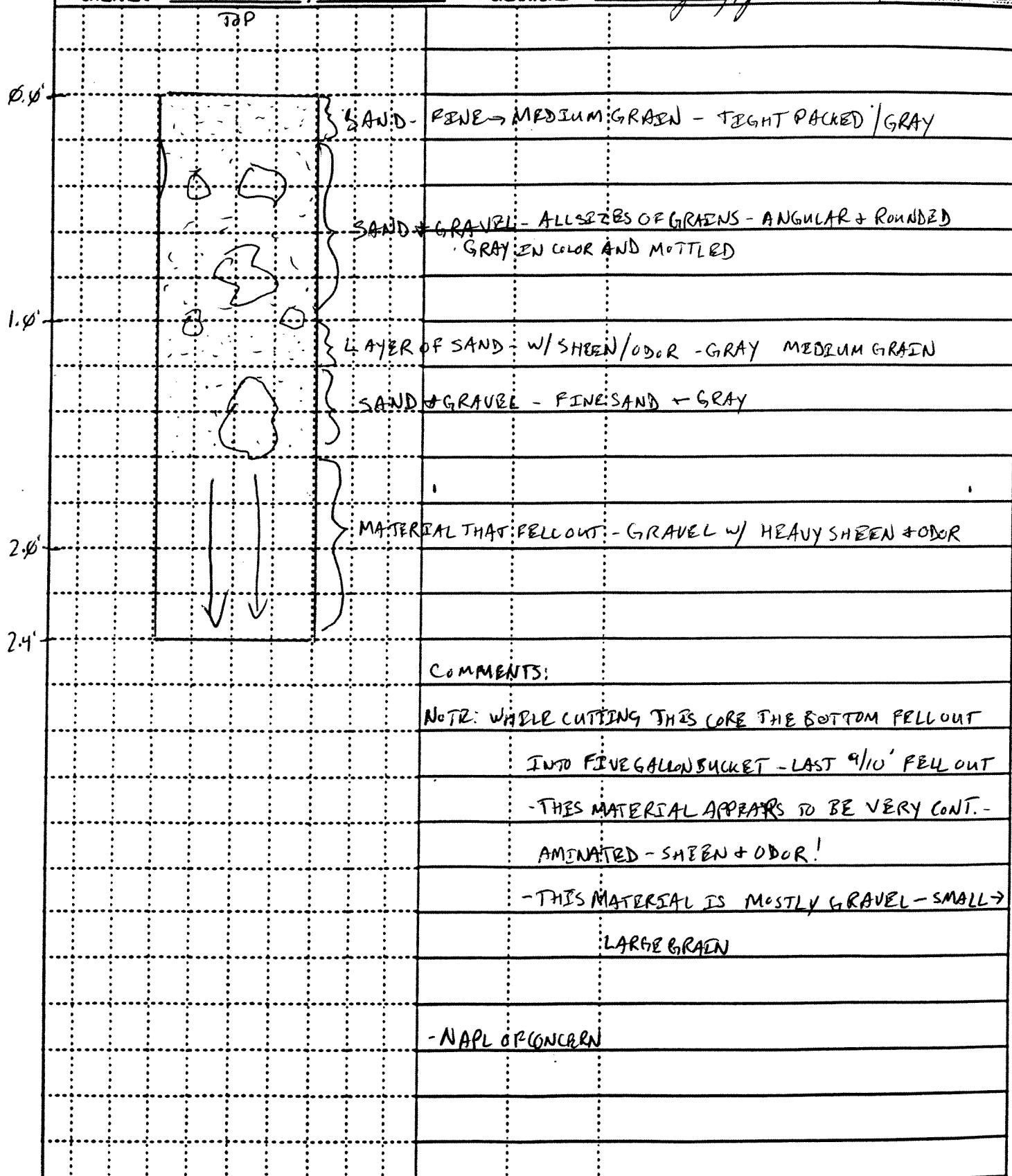
GEOLIS Notes and Sketches Form

COMPANY:	RF Weston Inc.	LOCATION NO.:	CELL G1 HRGL-SB-6
PROJECT:	H.R. S.t.e	DATE:	6/5/00
PROPERTY:	1/2 M.L.GE	LOGGER:	Ryan Jendrasik
SITE/AREA:	Source Ranch 1	SIGNATURE:	<i>[Signature]</i>
			
0.0	TOP		
0.8		SAND - MEDIUM TO COARSE W/ ANGULAR FRAGMENTS. SHINE & ODOR PRESENT GRAY COLOR	
1.6			
2.4		CLAY - UNIFORM OLIVE COLORED LAYER	
3.2			
3.6		VERY FINE SAND W/ SILT GRAY - DARK DENSE LAYER NO SHINE/ODOR	
4.0			
4.1		NOTE: VERY SIMILAR TO SB-5	

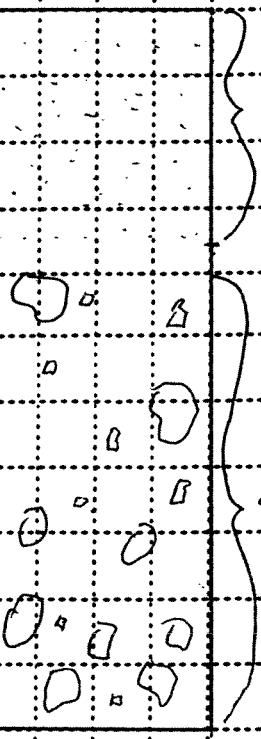
GEOLIS, Notes and Sketches Form

COMPANY: Rf Weston Inc.
PROJECT: H.R. Site
PROPERTY: 1/2 M.LN - GR
SITE/AREA: Source Reach /

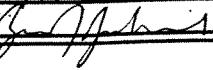
LOCATION NO.: CELL G1 HR.G1-5B-7
DATE: 6/5/00
LOGGER: Ryan Jundrasik
SIGNATURE: R. Jundrasik



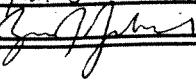
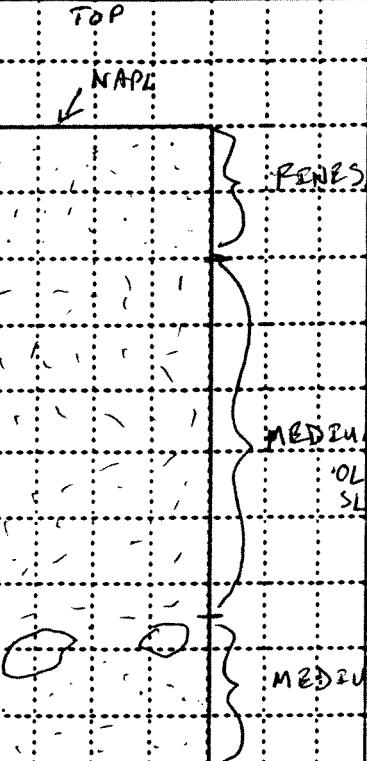
GEOLIS Notes and Sketches Form

COMPANY:	RF Weston Inc.	LOCATION NO.:	CBL 61 HR-G1-SB2
PROJECT:	H.R. Site	DATE:	6/5/00
PROPERTY:	1/2 Mile - GB	LOGGER:	Ryan Jendrasich
SITE/AREA:	Source Reach 1	SIGNATURE:	<i>John J. Jendrasich</i>
			
<p>TOP</p>			
0.8'	SILT AND VERY FINE SAND - GRAY IN COLOR		
1.0'			
1.8'	<p>SAND - FINE → COARSE WITH LARGER GRAVEL MIXED IN</p> <ul style="list-style-type: none"> • GRAY WITH MOTTLENG (WHITE/TAN GRAVEL) • ANGULAR + ROUNDED MATERIAL • GRAVEL MORE CONCENTRATED AT BOTTOM • SLIGHT ODOR (SHEEN NOT PRESENT) 		
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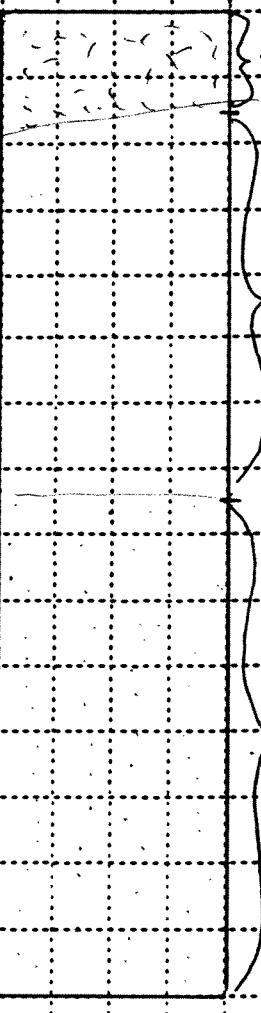
GEOLIS Notes and Sketches Form

COMPANY:	RF Weston Inc.	LOCATION NO.:	CELL G1 - HR G1 - SB3
PROJECT:	H.R. Site	DATE:	6/5/00
PROPERTY:	1/2 Mile - GE	LOGGER:	Ryan Jendrasiah
SITE/AREA:	Source Reach 1	SIGNATURE:	
			
TOP			
0.0'		FINE SAND WITH SOME MEDIUM SIZE GRAVEL - SLIGHT ODOR	
1.0'		FINE SAND - w/ SOME SILT NO ODOUR	
2.0'		SLIGHTLY LARGER SAND GRAINS THAN ABOVE NO ODOUR	
3.0'		NOTE: ALL DARK GRAY, NO SHBEN	
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GEOLIS Notes and Sketches Form

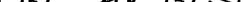
COMPANY:	RF Weston Inc.	LOCATION NO.:	CBLG1 HR-G1-SB-4
PROJECT:	H.R. S.tc	DATE:	6/5/00
PROPERTY:	1/2 Mile - GE	LOGGER:	Ryan Jendrasik
SITE/AREA:	Source Reach 1	SIGNATURE:	
			
<p>0.0'</p> <p>0.5'</p> <p>1.0'</p> <p>1.5'</p> <p>2.0'</p> <p>COMMENTS:</p> <p>* NOTE: LEXAN SEEMS TO HAVE BEEN DETERIORATED BY SOMETHING - CRACKED VERY UNUSUALLY.</p> <p>- NAPL OF CONCERN</p>			

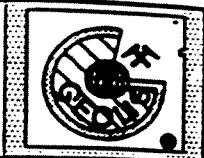
GEOLIS Notes and Sketches Form

COMPANY:	R.F.Weston Inc.	LOCATION NO.:	CBLG1 HR.G1-SB-5
PROJECT:	H.R. Site	DATE:	6/15/00
PROPERTY:	1/2 M.L.U - G2	LOGGER:	Ryan Jendrasink
SITE/AREA:	Source Reach 1	SIGNATURE:	<i>[Signature]</i>
			
<p>Top</p>			
0.0'			
0.0'	 <p>SAND - MEDIUM GRAIN - GRAY ODOR/SHEEN</p>		
1.0'	<p>CLAY - DENSE COMPRESSING LAYER - OLIVE - LITTLE SHEEN AT TOP OF LAYER</p>		
2.0'	<p>FINE SAND & SILT DARK GRAY NO ODOR/SHEEN</p>		
3.0'			
4.0'			
5.0'			
6.0'			
7.0'			
8.0'			
9.0'			
10.0'			
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92.0'			
93.0'			
94.0'			
95.0'			
96.0'			
97.0'			
98.0'			
99.0'			
100.0'			

GEOLIS. Notes and Sketches Form

COMPANY: RF Weston Inc.
PROJECT: H.R. Site
PROPERTY: 1/2 Mile - GIZ
SITE/AREA: Source Ranch I

LOCATION NO.: CBL L G1 H R G1 - SB 100
DATE: 6/5/00
LOGGER: Ryan Jundrasik
SIGNATURE: 



Top

6.6

2. ING SAND + SALT :- ODESSA SHEEN
- GRAY

1. β^t

FINE SAND / SILT w/ CLAY

- OLIVE/GRAY
 - SLIGHT ODOR / SHINE
 - BARRIER LAYER - TIGHT MATERIAL

2.64

RIVER SAND - GRAY

- SOME SELT
NO SHIRN/C DOR

3.16

PINE → MED SAND w/ ANGULAR FINE GRAVEL
· NO SCREEN (ODOR PRESENT - TRAIL)
· GRAY

3.9°

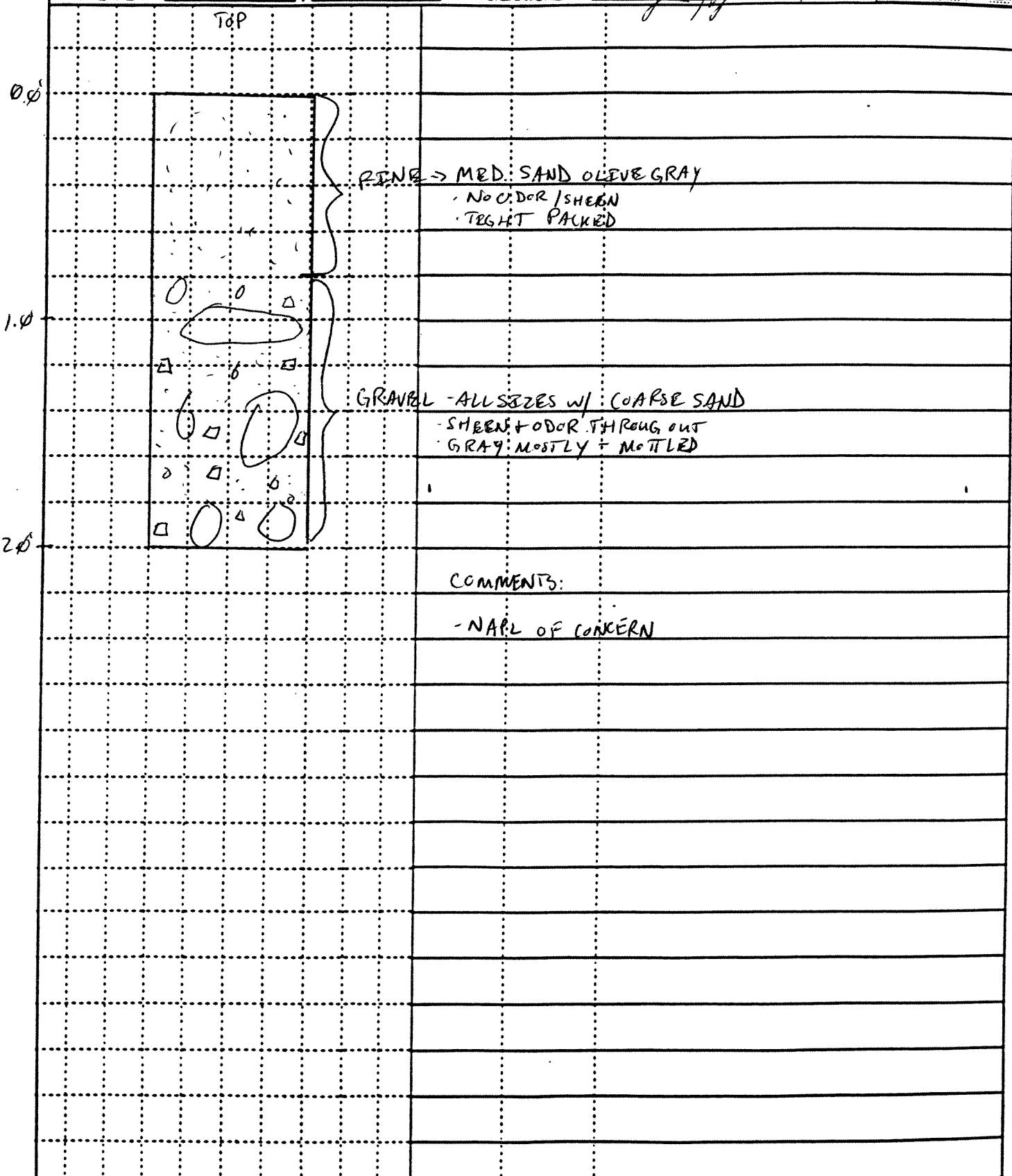
GEOLIS Notes and Sketches Form

COMPANY:	RF Weston Inc.	LOCATION NO.:	(ELL G1 HRG1 SBII)
PROJECT:	H.R. Site	DATE:	10/5/00
PROPERTY:	1/2 Mile - G.E.	LOGGER:	Ryan Jendrasik
SITE/AREA:	Source Reach 1	SIGNATURE:	<i>[Signature]</i>
			
<p>TOP</p>			
0.0'			
<p>FINE SAND w/ SILT - GRAY · NO ODOUR (SHREEN PRESENT)</p>			
1.0'	<p>CLAY w/ SILT - BARREER LAYER - OLIVE · NO SHREEN / ODOUR</p>		
2.0'	<p>VERY FINE SAND - TIGHT PACKED - GRAY · NO SHREEN / ODOUR · SOME SILT</p>		
3.0'	<p>FINE SAND w/ SOME ANGULAR GRAINS AT VERY BOTTOM - GRAY - NO ODOUR / SHREEN</p>		
3.2'			
3.4'			
3.6'			
3.8'			
4.0'			
4.2'			
4.4'			
4.6'			
4.8'			
5.0'			
5.2'			
5.4'			
5.6'			
5.8'			
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7.8'			
8.0'			
8.2'			
8.4'			
8.6'			
8.8'			
9.0'			
9.2'			
9.4'			
9.6'			
9.8'			
10.0'			

GEOLIS, Notes and Sketches Form

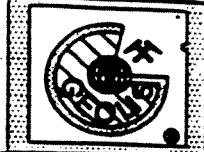
COMPANY: R.F. Writers Inc.
PROJECT: H.R. Site
PROPERTY: 1/2 Mile - G.E.
SITE/AREA: Source Reach /

LOCATION NO.: CELL G1 HR. G1 SB12
DATE: 6/5/00
LOGGER: Ryan Jendrasik
SIGNATURE: R. Jendrasik



GEOLIS Notes and Sketches Form

COMPANY:	Roy F. Weston Inc.		LOCATION NO.:	HR-G1-SB-13	
PROJECT:	Housatonic River Project		DATE:	June 6, 2000	
PROPERTY:	GB Plant Area		LOGGER:	Ryan Jendrasik	
SITE/AREA:	CELL G1	1 BANK	SIGNATURE:	<i>B. John</i>	
0.0'	TOP				
0.0'-4.0'	{ FINE SAND w/ SILT - NO ODOR / SHEEN		RECOVERY: 0'-4': 2.6'		
4.0'-8.0'	{ FINE SANDS - NO ODOR / SHEEN		4'-8': 3.1'		
8.0'-12.0'	{ FINE SAND w/ SILT - NO ODOR / SHEEN		8'-12': 2.1'		
12.0'-16.0'	{ FINE SAND w/ GRAVEL - NO ODOR / SHEEN		12'-16': 2.0'		
16.0'-20.0'	{ FINE SAND w/ SMALL GRAIN GRAVEL - ROUNDED & ANGULAR NO ODOR; SLEIGHT SHEEN, GRAYEN COLOR *NAPL SUSPECT				
20.0'-24.0'	{ SAME AS ABOVE w/ MORE GRAVEL w/ A BLACK POCKET @ 1.3'-1.7' *NAPL SUSPECT				
24.0'-28.0'	{ MED/LARGE SAND w/ ANGULAR GRAVEL; SHEEN / TRACE ODOR *NAPL SUSPECT - GRAY → BLACKEN COLOR				
28.0'-32.0'	{ ALL GRAIN SIZES OF SAND w/ GRAVEL - NO ODOR / SHEEN - OLEVIC COLOR				
32.0'-36.0'					
36.0'-40.0'					
40.0'-44.0'					
44.0'-48.0'					
48.0'-52.0'					
52.0'-56.0'					
56.0'-60.0'					
60.0'-64.0'					
64.0'-68.0'					
68.0'-72.0'					
72.0'-76.0'					
76.0'-80.0'					
80.0'-84.0'					
84.0'-88.0'					
88.0'-92.0'					
92.0'-96.0'					
96.0'-100.0'					



GEOLOGIC Notes and Sketches Form

COMPANY: Roy F. Weston Inc.
PROJECT: Housatonic River Project
PROPERTY: GE Plant Area
SUBAREA: Cell #1. / BANK

LOCATION NO.: HR-G1-S.B. 14
DATE: June 6, 2000
LOGGER: Ryan Tendvesiuk
SIGNATURE: 



GEOLIS Notes and Sketches Form

COMPANY:	Roy E. Weston Inc.		LOCATION NO.:	HR.G1.SB.15	
PROJECT:	Housatonic River Project		DATE:	June 6, 2000	
PROPERTY:	GIE Plant Area		LOGGER:	Ryan Jendrasik	
SITEAREA:	C11/G1.. 1 BANK		SIGNATURE:	<i>Gal O'Han</i>	
0.0'	TOP		RECOVERY:		
0.0'			0'-4':	1.7'	
			4'-8':	3.7'	
			8'-12':	4'	
4.0'			12'-16':	3'	
8.0'					
12.0'					
16.0'					

Handwritten notes and sketches from the Geology Notes and Sketches Form:

- 0'-4': FINE SAND/SILT w/ ORGANICS + LARGE GRAVEL; NO ODOR/SHEEN
- 4'-8': FINE/MED SAND; NO ODOR/SHEEN
- 8'-12': DENSE SILT+CLAY, NO odOR / SHEEN
- 12'-16': SMALL GRAVEL WITH FINE GRAIN SAND; ALL GRAIN GRAVEL
- 12'-16': SMALL GRAIN GRAVEL w/ FINE SAND + SILT + SOME CLAY; NO odOR / SHEEN
- 12'-16': SMALL GRAIN GRAVEL w/ FINE SAND; SLIGHT odOR + SHEEN
- 12'-16': FINE-MED GRAIN w/ SAND - odOR + SHEEN
- 12'-16': FINE SAND/GRAVEL - "POCKET" OF NAPL - FREE PHASE PRODUCT! * NAPL PRESENT; GREY + ENTHALIC MATTER, odOR + SHEEN, TAN/OLIVE COLOR
- 12'-16': SAND - ALL GRAIN SIZES - odOR / NO SHEEN

GEOLOGIC Notes and Sketches Form

COMPANY: Roy F. Weston Inc.
PROJECT: Housatonic River Project
PROPERTY: GR Plant Area
STAKEHOLDERS: Cell G1 .. / BANK

LOCATION NO.: HR-G1-SB-16
DATE: June 6, 2000
LOGGER: Ryan Jendrasik
SIGNATURE: 



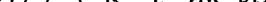
GEOLIS Notes and Sketches Form

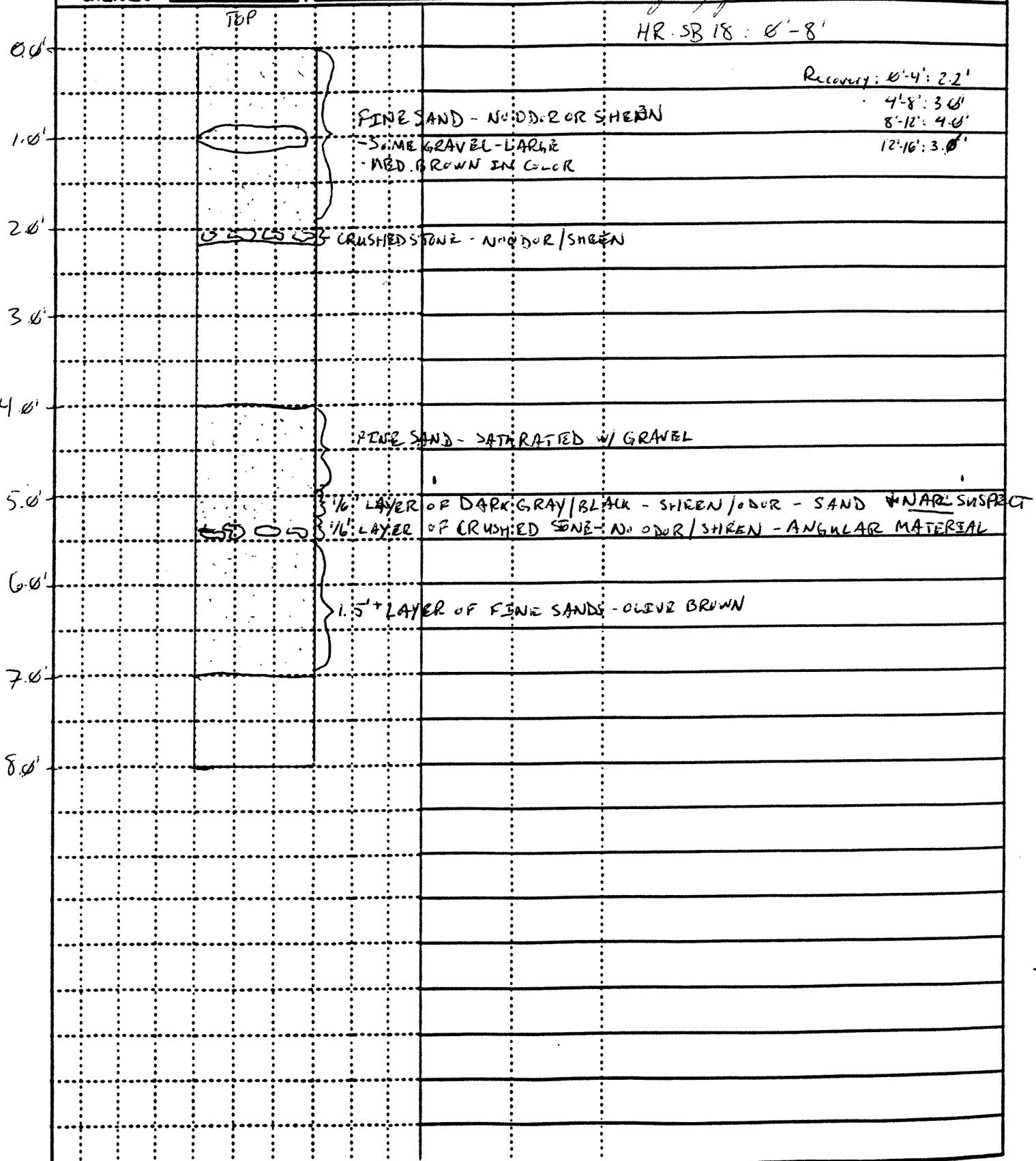
COMPANY:	RF Weston Inc	LOCATION NO.:	CBLIGI Bank HR-SB-T7	
PROJECT:	Pittsfield, MA Housing	DATE:	6/12/00	
PROPERTY:	G.R. Plant	LOGGER:	Ryan Tendrisink	
SITE/AREA:	Cellar / HR-SB-17 6'-8'	SIGNATURE:	<i>[Signature]</i>	
TOP		HR-SB-17 6'-8'		
0.0'	SANDY LAYER LARGE GRAVEL NO ODOUR OR SHEEN		6'-4': Recovery: 2.5'	
1.0'			40'-80' Recovery: 3.0'	
2.0'	SAND LAYER w/ SMALL GRAVEL GRAVELS MIXED IN (NO ODOUR OR SHEEN)		8.0'-12.0' Recovery: 4.0'	
3.0'	FINE SAND OLIVE BROWN		12.0'-16.0' Recovery: 4.0'	
4.0'	1 FEET FINE SAND - NO ODOUR OR SHEEN - WET - OLIVE BROWN			
5.0'	GRAVEL WITH FINES - SAND + NO ODOUR / SHEEN - BROWN + WHITE			
6.0'	SAND FINE - OLIVE BROWN - NO SHEEN - SLIGHT ODOUR			
7.0'	SAND FINE - GRAY STRONG ODOUR / SHEEN PRESENT			
8.0'				
9.0'				
10.0'				
11.0'				
12.0'				
13.0'				
14.0'				
15.0'				
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GEOLIS, Notes and Sketches Form

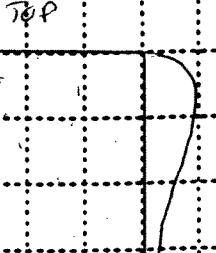
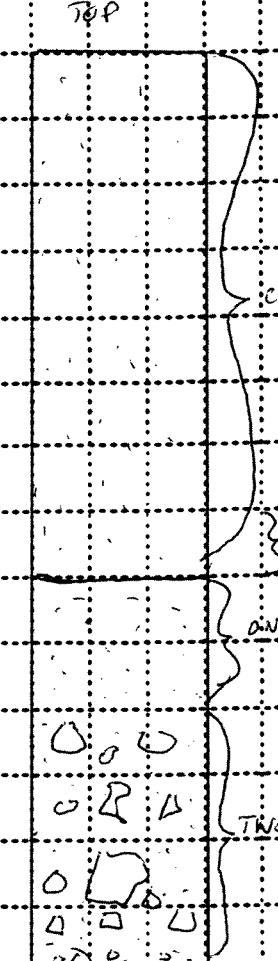
GEOLIS, Notes and Sketches Form

COMPANY: RF Weston Inc.
PROJECT: Pittsfield, MA Massatonic
PROPERTY: GR Plant
SITE NUMBER: Cell G1 / HR3B18

LOCATION NO.: CBLG G-1 Bunk HR-SB-18
DATE: 6/12/00
LOGGER: Ryan Jenkins
SIGNATURE: 



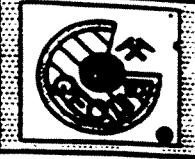
GEOLIS Notes and Sketches Form

COMPANY:	RF Weston Inc.	LOCATION NO.:	CELLGI Bank
PROJECT:	Pittsfield MA Residential	DATE:	6/12/94
PROPERTY:	G/E Plant	LOGGER:	Sam Johnson
SITE/AREA:	CELLGI ... 1	SIGNATURE:	Ryan Sandrasik
		HR SB 18: 8'-16'	
8.0'			
9.0'			
10.0'		CONSISTENT THROUGHOUT - FINE GRAINS - FINE SAND/SILT w/ CLAY - NO OIL OR SHEEN - SATURATED - SOME GRAVEL GRAINS MIXED IN - OLIVE GRAY IN COLOR	
11.0'		{ DENSE LAYER OF VERY FINE SAND	
12.0'		DENSE POUR LAYER OF VERY FINE SAND - OIL OR SHEEN PRESENT (NAPL) - OLIVE GRAY IN COLOR	
13.0'	O O O		
14.0'	O R A	TWO FEET OF GRAVEL - ALL GRAIN SIZES - - Multi Colored - White/Gray/Black - OIL OR SHEEN PRESENT - FROM NAPL - ANGULAR & ROUND RD	
15.0'	O O O		
16.0'			
			

GEOLIS Notes and Sketches Form

COMPANY:	RF Weston Inc			LOCATION NO.:	HR-G1SB-19	
PROJECT:	Housatonic River Project			DATE:	June 14, 2000	
PROPERTY:	GB Plant			LOGGER:	Ryan Sandrasink	
SITE AREA:	CELL 61 .. 1. "Shelf"			SIGNATURE:	<i>B. J. John</i>	
						
0.0	TOP			Recoveries		
0.6	{ FINESAND / ORGANICS NO ODOR OR SHEEN · BROWN			0'-4' : 2.9'		
1.0	{ FINESAND / ORGANICS / NONE OR SHEEN No SAMPLES 4'-8' : 3.2'			2.8'		
2.8'	{ RINGS - SATURATED SILT + FINESAND · NO ODOR OR SHEEN · GRAY					
3.6'						
4.6'						
5.0'	{ FINES w/ SOME GRAVEL · SOME CLAY / SILT + FINE SAND · GRAY IN COLOR · NO ODOR OR SHEEN			NO SAMPLES		
6.0'	{ SAND + GRAVEL - SATURATED - ROUND ED + ANGULAR - NO ODOR OR SHEEN			GRAY IN COLOR		
7.0'						
8.0'	{ FINESAND - ODOUR / LIGHT SHEEN					
9.0'	{ GRAVEL + SAND - ODOUR STRONG / HEAVY SHEEN - SAMPLE TAKEN SUSPECT NAPL			HR-G1SB-19 8'-10'		
10.0'	{ FINESAND - ODOUR / SHEEN					
11.0'	{ SAND + GRAVEL - ODOUR + SLIGHT SHEEN - SAMPLE TAKEN			HR-G1SB-19 10'-12'		
12.0'	NOTE: ODOUR + SHEEN ACROSS ENTIRE 8'-12' INTERVAL 2 SAMPLES TAKEN					

GEOLIS Notes and Sketches Form

COMPANY:	Roy F. Weston Inc	LOCATION NO.:	HR-G1 SB-20	
PROJECT:	Housatonic River Project	DATE:	June 14, 2000	
PROPERTY:	GR Plant	LOGGER:	Ryan Sandvoss	
SITE NAME:	SEL G1 ... / "Shelf"	SIGNATURE:	<i>[Signature]</i>	

Top Recovery

0' 0" - 0' 4": 3.1'

1' 0" - 1' 4": { FINEs/ORGANICs - BROWN 4' 8": 1.8'

1' 4" - 2' 0": { FINEs - COMbLAt/SILT FINEsAND 8' 12": 2.0'

2' 0" - 3' 0": { GRAvEL SATURATED - GRAY - SOME ODOR 14" DOWN FOR 2"-4" - SAMPLED NO Odor or Sheen

3' 0" - 3' 4": NOTE: 16" FROM TOP - STAINING & OdOR - SAMPLE TAKEN HR-G1-SB-20 2' 4"

3' 4" - 4' 0": { 3' CLAY LAYER GRAvEL SATURATED w/ FINEs MIXED IN - GRAY NO Odor or Sheen

4' 0" - 5' 0": { SAME AS ABOVE BUT TURNs BLACK! - ROUNDED GRAvEL → SAMPLE TAKEN HR-G1-SB-20 0'-8" DUPLICATe TAKEN

5' 0" - 6' 0":

6' 0" - 7' 0":

7' 0" - 8' 0":

8' 0" - 9' 0": { ALL SAMPLs FINe TO MED. GRAnE w/ GRAvEL - NO Odor or Sheen - BROWN & OLIVE IN COLOR

9' 0" - 10' 0":

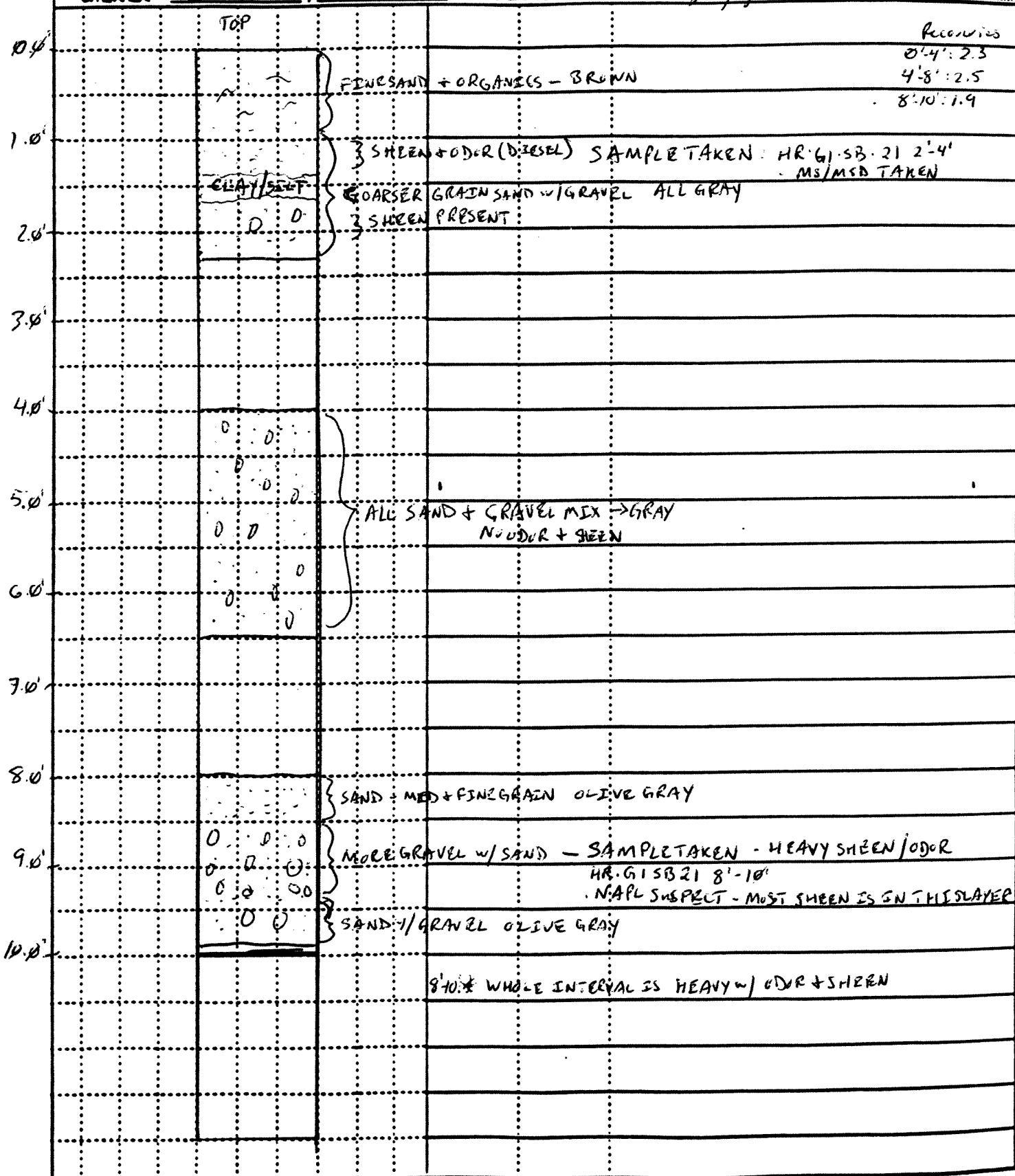
10' 0" - 11' 0":

11' 0" - 12' 0":

GEOLIS Notes and Sketches Form

COMPANY: RF Weston Inc.
PROJECT: Housatonic River Project
PROPERTY: GE Plant
SITE/AREA: C11G1... / "Shelf"

LOCATION NO.: HR-G1-SB-~~est~~ 21
DATE: June 14, 2000
LOGGER: Ryan Tendrich
SIGNATURE: B. J. Gadsden



GEOLIS, Notes and Sketches Form

COMPANY: RF Weston Inc.
PROJECT: Housatonic River Project
PROPERTY: GE Plant
SITE/AREA: CEF61 /

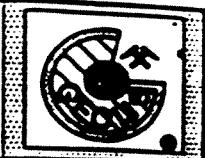
LOCATION NO.: HR G1 SB 22
DATE: June 14, 2000
LOGGER: Ryan Jendruszak
SIGNATURE: 



GEOLIS Notes and Sketches Form

COMPANY: RF Weston Inc.
 PROJECT: Housatonic River Project
 PROPERTY: G.E. Plant
 SITE AREA: CELL G1 ... 1.

LOCATION NO.: HRG1SB 23
 DATE: June 14, 2000
 LOGGER: Ryan Jendrasick
 SIGNATURE: [Signature]



		Top:					
0.0'		{ GRAVEL TOP					RECOVERY: 3.7' / 6.6'
		{ FINE SAND - NO ODOR / SHEEN - OLIVE GRAY IN COLOR					
		- SLIGHT ODOUR					
		- SLIGHT BLACK STAIN					
		{ FINE SAND & SILT - NO ODOR / SHEEN					
1.0'		MED GRAIN → FINE SAND - OLIVE GRAY IN COLOR					
		{ GRAVEL IN LAYER - ANGULAR MATERIAL					
		WEOD OR CRUSHED					
2.0'		{ SILT w/ SOME CLAY - OLIVE GRAY IN COLOR					
		- NO ODOUR OR SHEEN					
3.0'		{ VERY DENSE LAYER OF FINE SAND / SILT					
		- DARK GRAY IN COLOR					
		- NO ODOUR OR SHEEN					
3.7'		NOTE: TOP TWO(2) FEET SHOULD BE ABOVE THE ACTUAL GRADE ELEVATION NEEDED					
		* BECAUSE THE TOP 2' IS GOING TO EXCAVATED					
		NO SAMPLING OF SUSPECT CONTAMINATION IN THE TOP LAYER OF FINE SAND					
		BPA / GE - AGREE					

GEOLIS Notes and Sketches Form

COMPANY:	Ray F. Weston Inc.			LOCATION NO.:	HR-G1-SB-24	
PROJECT:	Housatonic River Project			DATE:	6/23/00	
PROPERTY:	GR Plant			LOGGER:	Ryan Jendrasik	
SITE AREA:	Cell G1	1	BANK	SIGNATURE:	<i>[Signature]</i>	
0.0'	POP			Large bubbles on Surface	BORENG HR-G1-SB-24	Recovery: 0'-4': 3.5' 4'-8': 2' 8'-12': 3.75' 12'-16': 3.0'
				Layer of fine sand / silt ± 6" no odor/sheen - light brown in color		
				Layer of fine/med sand - no odor/sheen		
				Brown in color		
0.8'				Crushed stone - concrete possible - white in color - no odor/sheen - angular material		
				*SAMPLE TAKEN: HR-G1-SB-24 2'-4' (Because of odor below)		
1.6'				All sand - med/fin sand, STRONG OdOR throughout; N/SHEEN	*SAMPLES TAKEN	
				- Light GRAY IN COLOR - Some iron stain in middle foot		
				- 2 samples taken: one from top foot, one from bottom foot ID: HR-G1-SB-24 4'-6" & 6'-8"		
2.4'				Entire core saturated	* SAMPLES TAKEN	
				Fines - SW w/ clay; Gray in color; Heavy odor + slight sheen present		
				2 samples taken: one from top 1.85' + one from second 1.85' ID: HR-G1-SB-24 8'-10' + HR-G1-SB-24 10'-12'		
3.2'	0.0.0.0.0.0	3	Layer w/ Gravel Angular	Last 6"		
				Fines w/ gravel mixed in * Heavy odor and slight sheen	* SAMPLES TAKEN	
				Gray in color		
				ID: HR-G1-SB-24 12'-14'		
4.0'	0.0.0.0.0.0	3	3 AYL SILT+CLAY	Dense layer - Gray in color - heavy odor - 6" layer		
				3 NAPL PRESENT - Free phase - Gravel w/ silt + clay - 6" layer at bottom *		
				* NAPL SUSPECT - SAMPLE Taken of this 6" - HR-G1-SB-24 14'-16'		
4.8'				<ul style="list-style-type: none"> - NOTE: All samples taken over intervals ± 4"-6" long not homogenized over entire half of core length Focus on areas of suspect NAPL 		
5.6'						
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GEOLIS Notes and Sketches Form

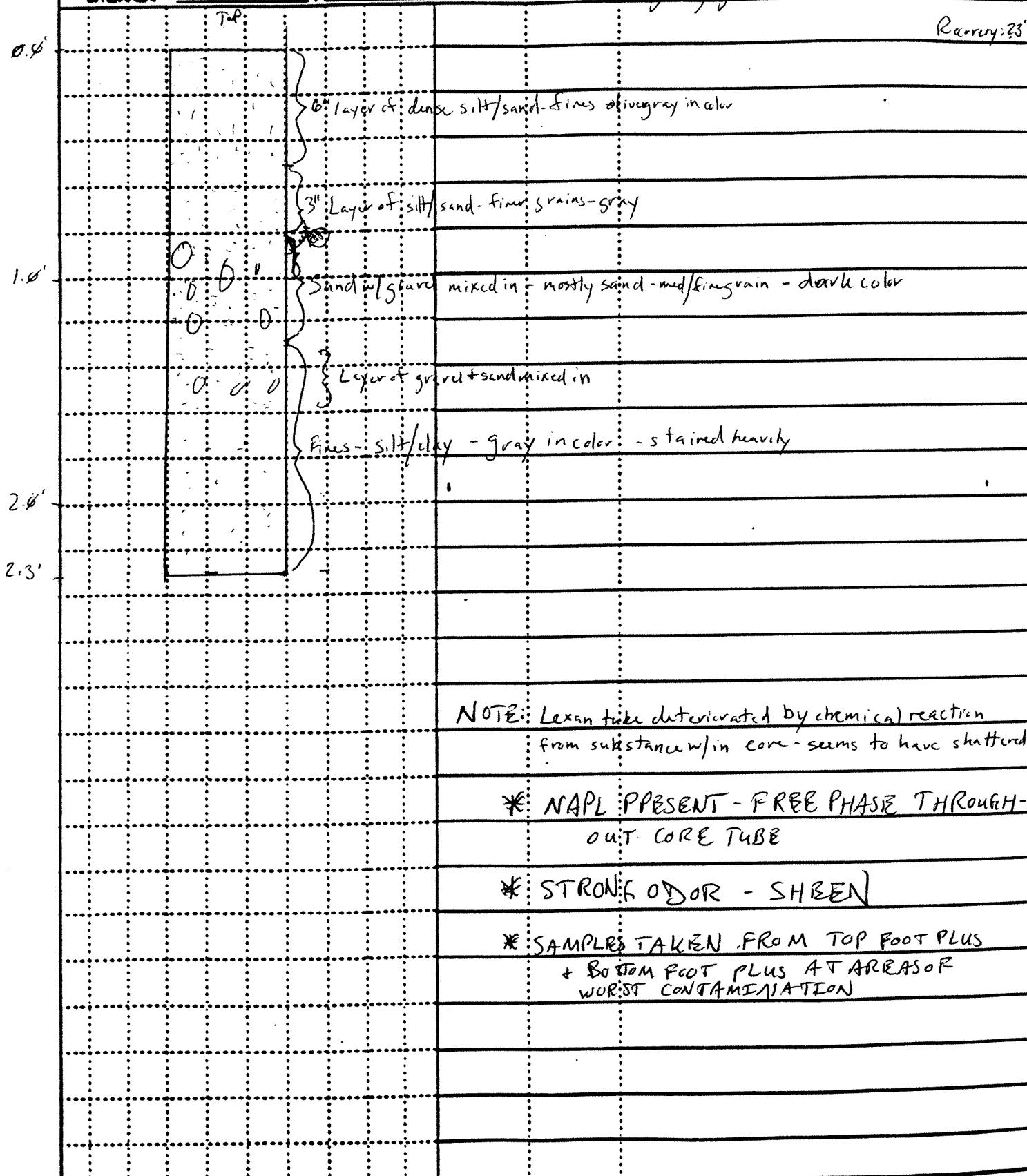
COMPANY:	RF Weston Inc.		LOCATION NO.:	HR.G1.SB.25	
PROJECT:	Housatonic River Project		DATE:	6/23/00	
PROPERTY:	GB Plant		LOGGER:	Ryan Jendrasick	
SITE AREA:	Cell G1 - 1 BANK		SIGNATURE:		
0.0'	TOP		BIRING: HR.G1.SB.25		Recovery
0.0'	200~ u~	TOP IS SOFT + STONY / Gravel and organics - brown - No odor or sheen			6'-4": 3.25"
1.0'		All Med/fine grains sand - no odor or sheen			4'8": 3.75"
2.0'		Brown turning to white/gray in color			8'-8": 3.5"
4.0'					12'16": 2.75"
6.0'					
8.0'		Layer of sand - no odor or sheen - brown in color			
8.8'		Layer of silt/clay - gray in color - no odor or sheen - saturated			
10.0'	0 0 0 0 0 0 0 0 0 0 0 0	Dense layer of silt/clay - gray in color - saturated - no odor or sheen			
11.0'	0 0	Last 8" is gravel w/ sand - multi-colored - no odor or sheen - saturated			
12.0'	0 0 0 0 0 0 0 0 0 0 0 0	Top foot is dark in color w/ no odor/sheen			
13.0'	0 0 0 0 0 0 0 0 0 0 0 0	White core is gravel w/ sand } 2nd foot is dense layer of smaller grain gravel - no odor/sheen			
14.0'	0 0 0 0 0 0 0 0 0 0 0 0	Last 3" is sandy gravel mix - no odor or sheen			
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GEOLOGIC Notes and Sketches Form

GEOLIS Notes and Sketches Form

COMPANY: R.R. Weston Inc.
PROJECT: Housatonic River Project
PROPERTY: GRB Plant
SITE/AREA: (Cell G1 ..) / River Bed

LOCATION NO.: HR. 61-58-27
DATE: 6/23/00
LOCKER:
SIGNATURE: Ryan Jendrasrah
Björn Juhni



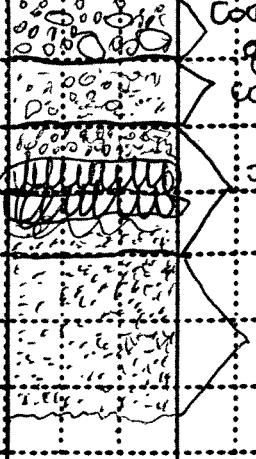
GEOLIS Notes and Sketches Form

COMPANY: Ray F. Weston Inc.
PROJECT: Housatonic River Project
PROPERTY: GE Plant
SITE/AREA: Cell G1.. / River Bed

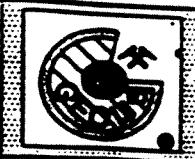
LOCATION NO.: HR-G1-SB-28
DATE: 6/23/00
LOGGER: Ryan Jendrasik
SIGNATURE: 



GEOLIS Notes and Sketches Form

COMPANY:	P F Weston Inc	LOCATION NO.:	Cell G HR.G1.SB.29	
PROJECT:	Pittsfield, MA Consultant	DATE:	6/28/00	
PROPERTY:	GE Plant	LOGGER:	IZARENA ZHAISEK	
SITE AREA:	Cell G-1 / HR.SB.29	SIGNATURE:		
		HR.G1.SB.29		
		0'-4' Recovery 3.2'		
0.0'	TOP 	coarse sand, olive drab gray gravel		
1.0'		coarse sand, gravel Some organic		
2.0'		dark staining		
3.0'		fine, very fine sands		
4.0'	Bottom	olive gray material coarser on top thin out towards the bottom.		
<p>* samples collected for analytical 0-2' + 2-3.2'</p>				
<p>Copyright © 1980, 1984 by Roy F. Weston, Inc.</p>				

GEOLIS Notes and Sketches Form

COMPANY:	RF Weston Inc.		LOCATION NO.:	CELL G2 HR-G2-SB-1	
PROJECT:	Housatonic River Project		DATE:	6/16/00	
PROPERTY:	GE Plant		LOGGER:	Ryan Jandrasik	
SITE/AREA:	CELL G2	1 BANK	SIGNATURE:	<i>[Signature]</i>	
		TOP			
0.0'			SILT/Organics w/ no odor/sheen - brown		Recovery: 0'-4': 2' 4'-8': 1.4'
2.0'	2'-8' 0"		3 Gravel - crushed stone 3 Silt / fine sand w/ some gravel	NO SAMPLES 8'-12': 3.3' 12'-15': 0'	
4.0'	6' 0" 0" 0"		3 SAMPLE - TOP 2" - SILT / FINE SAND - NO ODOR OR SHEEN - Next 6" - BLACK - ODOR / SHEEN - GRAVEL w/ SAND MIXED IN → SUSPECT		
5.0'			- BOTTOM 8" - FINES w/ GRAVEL MIX NO ODOR OR SHEEN IS PRESENT - SAMPLE TAKEN : HR-G2-SB-1 (Duplicate Taken : HR-G2-SB-1) TAKEN FROM MIDDLE 6" - called 4'-0" (CAT)		
8.0'	0" 0" 0" 0"		- TOP 3" - FINE → MEDIUM SAND - GRAY - NO ODOR / SHEEN - NEXT 1" - GRAVEL - SATURATED - GRAY / OLIVE - ANGULAR - NEXT 6" - SAND & GRAVEL - SMALL GRAIN GRAVEL - GRAY		
10.0'	0" 0" 0" 0"		- TO BOTTOM - SAND w/ SOME SILT MAYBE CLAY - GRAY		
12.0'			→ NO RECOVERY - SEE NOTE		
13.0'			<p>*NOTE: MATERIAL FELL OUT OF LEXAN BUT STILL IN CORE TUBE - NO ODOR OR SHEEN - ALL MED SAND - GRAY IN COLOR</p>		
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GEOLIS Notes and Sketches Form

COMPANY:	R F Weston Inc.	LOCATION NO.:	HR-G2-SB-2	
PROJECT:	Housatonic River Project	DATE:	6/16/00	
PROPERTY:	GIE Plant	LOGGER:	Ryan Jendresiah	
SITE/AREA:	CELL G2... / BANK	SIGNATURE:	Brian J. Davis	

0.6'

TOP

0' - 2" - Organics, silt w/ large gravel
ALL SAND: Fine to medium grain w/ pockets of silt
• NO ODOR OR SHEEN

Recovery
0'4": 3'
4'8": 3.5'
8'-12': 4'
12'-14.5":

• LIGHT BROWN

4.8'

FINE → MUD. GRAIN SAND - LTGHT BROWN → GRAY
NO ODOR OR SHEEN

8.4'

FINE SAND - w/ slight petrol. odor / no sheen - SAMPLE TAKEN: 6'-8'
ID: HR-G2-SB-2
- Gray to olive
- SAMPLE: TAKEN OVER LAST 1.5' OF CORE (DUPLICATE: HR-G2-SB-2)
+ 215/MSD: SAME AS ORIGINAL (RTV)

• ALL-SAND + SILT - fine grain material - saturated - gray throughout
• Some clay at last 6" of interval

• NO ODOR OR SHEEN PRESENT

12.0'

→ NO RECOVERY - SEE NOTE

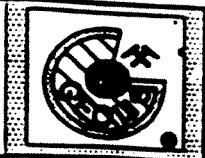
14.5'

* NOTE: SAMPLE FOR 12'-14.5' NOT IN EXAM BUT
STAYED IN CORE TUBE
- MATERIAL IS FINE SAND/SILT - GRAY
- THEN MOVES INTO GRAVEL SAND MIX
- SATURATED
- NO ODOR OR SHEEN IN ANY MATERIAL

GEOLIS, Notes and Sketches Form

COMPANY: RF Weston Inc
PROJECT: Housatonic River Project
PROPERTY: GIE Plant
SITE/AREA: CBL G2 / RANK

LOCATION NO.: HR-G2-SB-3
DATE: 6/16/00
LOGGER: Ryan Jendrasik
SIGNATURE: 



Recovery				
0'-4'	2.5			
4'-8'	3.0'			
8'-12'	4.0'			
12'-145'	3.25			
0.0'	TOP			
2.5'	ALL SAND - FINE	- TOP IS ORGANICS + SAND + FINES - BROWN Rest of core is all fine/red sand w/ some silt getting larger in grain size as you go down the core - gray in color		
4.0'		- NO ODOR/SHEEN - NO SAMPLES		
7.5'	IRON STAIN	- TOP foot is fine sand - dense layer no odor/sheen - gray - 2nd foot is silt w/ iron stain - gray w/ orange - no odor/sheen - 3rd foot is very fine sand/silt - gray - last 6" has odor no sheen ↳ natural organic		
8.0'		- Entire length of core is fines - very fine to fine sand w/ silt		
12.0'		- Mainly gray in color w/ more olive coloring @ bottom - NO ODOR OR SHEEN		
145'	ALL SAND / SILT - FINES - DENSE LAYER	- SATURATED AT THE TOP → 2.5 feet - NO ODOR OR SHEEN - GRAY / OLIVE IN COLOR		

GEOLIS Notes and Sketches Form

COMPANY:	R.F. Weston Inc.	LOCATION NO.:	HR-G2-SB-4	
PROJECT:	Marytonic River Project	DATE:	6/16/00	
PROPERTY:	GE Plant	LOGGER:	Ryan Jendrasic	
SITE/AREA:	CELL G2... 1 BANK	SIGNATURE:	<i>[Signature]</i>	
0.0'	TOP			
~ ~ ~ ~		<ul style="list-style-type: none"> - top foot - dense brown silt/fine sand - no odor/sheen - Next 6": Silt w/ sand - dense layer - light brown - no odor/sheen - Next 6": Sand, m/s, H: - no odor/sheen - Last 6": Med grain sand - no odor/sheen 		
0.4' 4.8'		<ul style="list-style-type: none"> Recovery: 0'-4': 2.5' 4'-8': 3.2' 8'-12': 4.0' 12'-14.5': 3.5' 		
4.8'		<ul style="list-style-type: none"> { Lt. Brown ALL SAND - w/ coarser sand in middle/lst - gray / var. - No odor no sheen 		
8.0'		<ul style="list-style-type: none"> { Gray SAND - 2' - Gray No odor/sheen - med/fine grain 		
12.0'		<ul style="list-style-type: none"> { Silt + denselayer - clivetbrown - no odor/sheen - slight stain at top of layer { Fine sand - brown / gray - no odor or sheen 		
14.5'		<ul style="list-style-type: none"> - LAYER IS SATURATED - Dense layer of silt + sand - fine grains - No patrol - odor or sheen in upper 2' { some staining @ 13.5' - slight odor @ last 1.5' / No sheen - SAMPLE TAKEN ID: HR-G2-SB-4 12'-14.5' 		
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CLIENT/SUBJECT EPA/ALOE Housatonic River/GE SITE W.O. NO. _____

TASK DESCRIPTION Piezometer Installation oversight TASK NO. _____

PREPARED BY IZ DEPT _____ DATE 6/28/00

MATH CHECK BY _____ DEPT _____ DATE _____

METHOD REV. BY _____ DEPT _____ DATE _____ DEPT _____ DATE _____

APPROVED BY

CELL G1 / GE PLANT 6/28/00

Piezometers: P1: Referenced to soil boring locations 16 & 18
 ✓ #1 * start screening
 963 or 15' drive to 962, 25 or 15.75'

ID: HR-G1-PZ1

- 15-11' screened
- 11-10' gap (solid PVC)
- 10-6' screened
- 6'-0' PVC riser

2 screens
1 PVC riser

* Elevation 978 was chosen to be the reference for the top of the piezometer thinking that the location of it falls bet. soil boring 18 (elev. 978.72) + 16 (elev. 976.92)

✓ #2 P2: Referenced to soil boring locations 17, 15, 24
 * start screening
 962, 25 or 16' drive to 761.5 or 16.75'

ID: HR-G1-PZ2

* we used elevation from
 soil boring #24 (978.29)
 piezometer location is
 about the same level
 as that soil boring.

- 16-12' - screened
- 12-11' - gap (solid PVC)
- 11-7' - screened
- 7-6' - gap (solid PVC)
- 6-2' - screened
- 2-0' - PVC riser

3 screens inst. in order to be
 able to screen interval 6-2'
 which we felt should be
 monitored.

✓ #3 P3: Referenced to soil boring locations 13 & 26
 * start screening
 964 or 14' drive to 963.25' or 14.75'

ID: HR-G1-PZ3

- 14'-10' screened
- 10-9' gap (solid PVC)
- 9-5' screened
- 5-0' PVC riser

* we chose elevation 978 as a reference for choosing the depth we determined
 that based on soil boring 13 (elev. 977.73) + 26 (elev. 938.01)

We chose to begin screening @ 14' because we wanted to be able to monitor 6-5',
 which was described in previous notes as containing suspect NAPL.

GEOLIS Notes and Sketches Form

COMPANY:	R.F. WESTON	LOCATION NO.:	HR - G1 - P21
PROJECT:	HDR/Isotopic River Project	DATE:	6/28/00
PROPERTY:	GE SITE	LOGGER:	JZ
STATION#:	Cell G1 1	SIGNATURE:	Trabille P. Tingle

0.0' TOP Elev. ~ 978

Perimeter referenced to
soil boring locations 16+18

6.0'

10.0'

11.0'

15.0'

15.5'

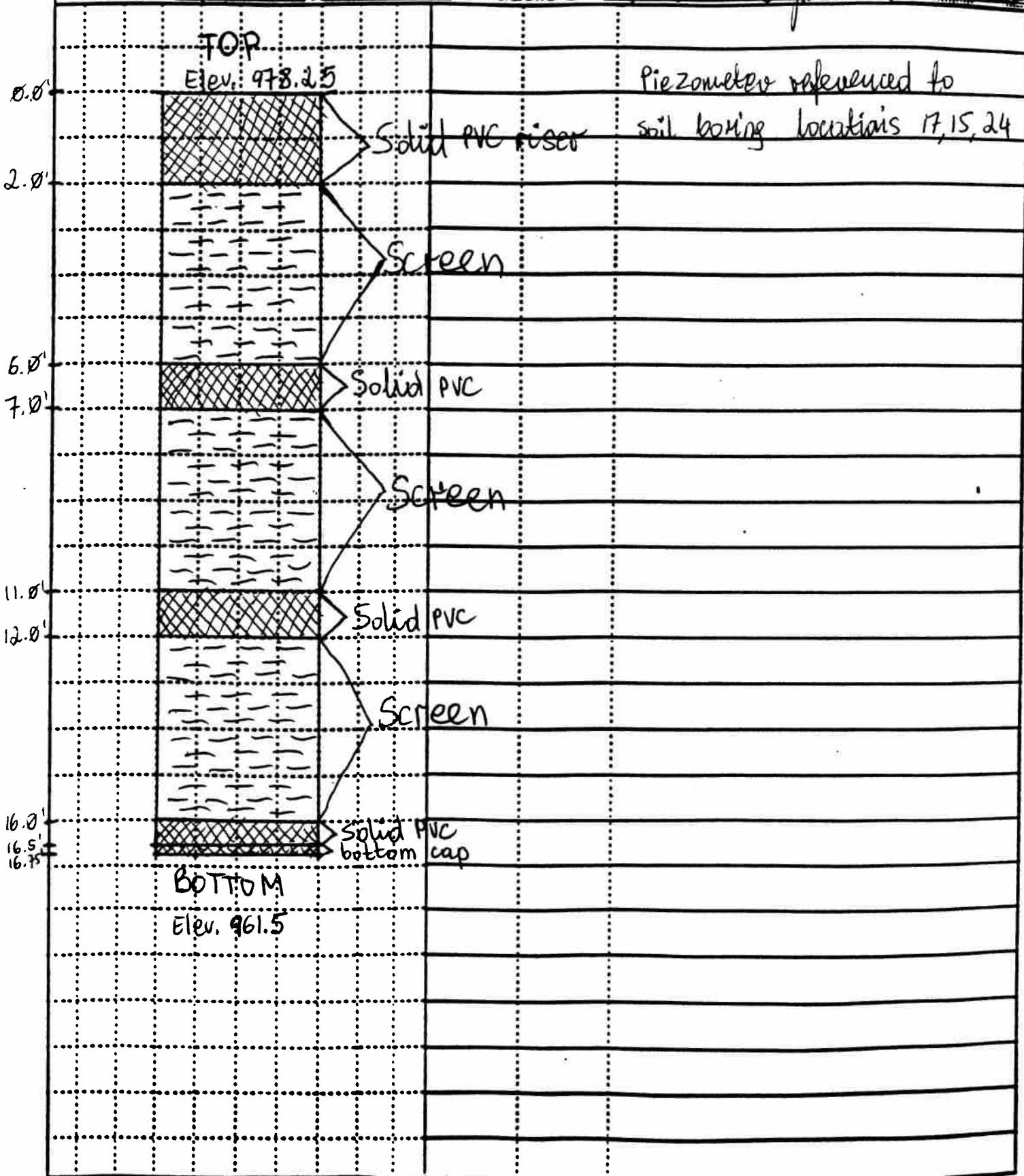
15.75'

BOTTOM
Elev. ~ 962.25

GEOLIS, Notes and Sketches Form

COMPANY: R. F. WESTON
 PROJECT: Housatonic River Project
 PROPERTY: GE SITE
 SITE NUMBER: Cell G1 1

LOCATION NO.: HR - G1 - PZ2
 DATE: 6/28/00
 LOGGER: T2
 SIGNATURE: Tristelle P. Venekle



GEOLIS Notes and Sketches Form

COMPANY:	R. F. WESTON	LOCATION NO.:	HR-G1-PZ3
PROJECT:	Housatonic River Project	DATE:	6/28/00
PROPERTY:	GE SITE	LOGGER:	JZ
STATION#:	Cell G1_1	SIGNATURE:	Judith P. Zornik

Elev. 978.0

TOP

Piezometer referenced to
soil boring locations 13 + 26

10.0'

5.0'

9.0'

10.0'

14.0'

14.5'

14.75'

BOTTOM
elev. 963.25

CLIENT/SUBJECT EPA/ALOE Housatonic River/GE SITE W.O. NO. _____
 TASK DESCRIPTION Piezometer Installation Oversight TASK NO. _____
 PREPARED BY IZ DEPT _____ DATE 6/28/00
 MATH CHECK BY _____ DEPT _____ DATE _____
 METHOD REV. BY _____ DEPT _____ DATE _____ APPROVED BY _____
 DEPT _____ DATE _____

CELL G1 / GE PLANT

6/28/00

Piezometers: P1: Referenced to soil boring locations 16 & 18

✓ #1 * start screening
963 or 15'

drive to
962.25 or 15.75'

ID: HR-G1-PZ1

- 15-11' screened
- 11-10' gap (solid PVC) > 2 screens
- 10-6' screened > 1 PVC riser
- 6'-0' PVC riser

* Elevation 978 was chosen to be the reference for the top of the piezometer thinking that the location of IT falls bet. soil boring 18 (elev. 978.72) + 16 (elev. 976.72)

✓ #2

P2: Referenced to soil boring locations 17, 15, 24
* start screening
962.25 or 16'

drive to
961.5 or 16.75'

ID: HR-G1-PZ2

* we used elevation from
soil boring #34 (978.29)
piezometer location is
about the same level
as that soil boring:

- 16-12' - screened
- 12-11' - gap (solid PVC)
- 11-7' - screened
- 7-6' - gap (solid PVC)
- 6-2' - screened
- 2-0' - PVC riser

3 screens inst. in order to be
able to screen interval 6-2'
which we felt should be
monitored.

P3: Referenced to soil boring locations 13 & 26

✓ #3

* start screening
964 or 14'

drive to
963.25 or 14.75'

ID: HR-G1-PZ3

- 14'-10' screened
- 10-9' gap (solid PVC)
- 9'-5' screened
- 5-0' PVC riser

* we chose elevation 978 as a reference for choosing the depth we determined
that based on soil boring 13 (elev. 977.73) + 26 (elev. 978.01)

We chose to begin screening @ 14' because we wanted to be able to monitor 6-5',
which was described in previous notes as containing suspect NAPL.