

2008 Sediment Investigation Data

**APPENDIX E-1
2008 SEDIMENT INVESTIGATION DATA**

Cornwall Landfill SPI Image Analysis - Preliminary Results (09/23/08)

Station (CW)	Date	Time	Muni Waste	Wood Debris	Comments
1A	9/16/2008	9:41	No	No	Eelgrass, no obvious debris
1B	9/16/2008	9:42	No	No	Eelgrass, no obvious debris
1C	9/16/2008	9:43	No	No	Eelgrass, no obvious debris
2A	9/16/2008	9:52	No	No	Eelgrass, no obvious debris
2B	9/16/2008	9:53	No	No	Eelgrass, no obvious debris
2C	9/16/2008	9:55	No	No	Eelgrass, no obvious debris
3A	9/16/2008	10:00	No	No	Eelgrass, no obvious debris
3B	9/16/2008	10:01	No	No	Eelgrass, no obvious debris
3C	9/16/2008	10:01	No	No	Eelgrass, no obvious debris
4A	9/16/2008	10:05	No	No	Sparse eelgrass, no obvious debris
4B	9/16/2008	10:06	No	No	Sparse eelgrass, no obvious debris
4C	9/16/2008	10:07	No	No	Sparse eelgrass, no obvious debris
5A	9/16/2008	10:11	No	10%	Small wood particles and fibers in upper 2 cm, indistinct below
5B	9/16/2008	10:11	No	5%	Small wood particles mixed with depth
5C	9/16/2008	10:12	No	10%	25% wood particles in upper 4 cm, 5 % wood particles below
6A	9/16/2008	10:16	No	3%	fine organic/wood particles in upper 5 cm
6B	9/16/2008	10:17	No	5%	fine wood/organic particles in upper 6 cm
6C	9/16/2008	10:18	No	No	methane gas bubble, no obvious debris
7A	9/16/2008	10:21	No	No	fine organics, no obvious debris
7B	9/16/2008	10:22	No	No	fine organics, no obvious debris
7C	9/16/2008	10:22	No	No	fine organics, no obvious debris
8A	9/16/2008	10:27	No	No	partial overpenetration, no obvious debris
8B	9/16/2008	10:27	No	No	overpenetration, no obvious debris
8C	9/16/2008	10:27	No	No	partial overpenetration, no obvious debris
9A	9/16/2008	10:33	No	No	no obvious debris, fine organic particles in upper 3 cm
9B	9/16/2008	10:34	No	No	no obvious debris, fine organic particles in upper 3 cm
9C	9/16/2008	10:35	No	No	no obvious debris
10A	9/16/2008	10:59	No	3%	small wood pieces on surface
10B	9/16/2008	11:00	No	3%	possible small woody debris on surface
10C	9/16/2008	11:00	No	No	organic material on surface, no obvious debris
11A	9/16/2008	11:04	No	No	small wood chips on surface?
11B	9/16/2008	11:04	No	No	no obvious debris
11C	9/16/2008	11:05	No	No	no obvious debris
12A	9/16/2008	11:08	No	No	small wood chips on surface?
12B	9/16/2008	11:08	No	3%	wood pieces upper 2 cm
12C	9/16/2008	11:09	No	No	methane gas bubble, no obvious debris
13A	9/16/2008	11:12	No	No	no obvious debris, possible small wood particles on surface
13B	9/16/2008	11:12	No	No	no obvious debris
13C	9/16/2008	11:13	No	No	no obvious debris
14A	9/16/2008	11:17	No	No	no obvious debris
14B	9/16/2008	11:18	No	No	no obvious debris
14C	9/16/2008	11:18	No	No	no obvious debris
15A	9/16/2008	11:23	No	No	no obvious debris
15B	9/16/2008	11:23	No	No	no obvious debris, polychaetes at depth
15C	9/16/2008	11:24	No	No	no obvious debris, polychaete at depth
16A	9/16/2008	11:29	No	No	no obvious debris
16B	9/16/2008	11:30	No	No	no obvious debris, pull out
16C	9/16/2008	11:31	No	No	no obvious debris
8D	9/16/2008	11:33	No	No	no obvious debris, fine organic particles in upper 3 cm
8E	9/16/2008	11:34	No	No	no obvious debris
8F	9/16/2008	11:35	No	No	no obvious debris
17A	9/16/2008	11:42	No	No	no obvious debris
17B	9/16/2008	11:42	No	2%	fine wood particles in upper 6 cm, brittle star
17C	9/16/2008	11:43	No	No	no obvious debris
18A	9/16/2008	11:46	No	No	no obvious debris
18B	9/16/2008	11:47	No	No	no obvious debris
18C	9/16/2008	11:48	No	No	no obvious debris
19A	9/16/2008	11:51	No	No	no obvious debris
19B	9/16/2008	11:52	No	No	no obvious debris
19C	9/16/2008	11:53	No	No	no obvious debris, void
20A	9/16/2008	11:56	No	No	no obvious debris
20B	9/16/2008	11:56	No	No	no obvious debris
20C	9/16/2008	11:57	No	No	no obvious debris, spionid polychaetes
21A	9/16/2008	12:01	No	No	no obvious debris
21B	9/16/2008	12:02	No	No	no obvious debris
21C	9/16/2008	12:03	No	No	no obvious debris
22A	9/16/2008	13:14	No	No	no obvious debris
22B	9/16/2008	13:15	No	No	no obvious debris
22C	9/16/2008	13:15	No	No	no obvious debris
23A	9/16/2008	13:20	No	No	no obvious debris
23B	9/16/2008	13:21	No	No	no obvious debris
23C	9/16/2008	13:22	No	No	no obvious debris
24A	9/16/2008	13:25	No	5%	wood piece on surface
24B	9/16/2008	13:25	No	No	rocky, shells, no obvious debris
24C	9/16/2008	13:26	No	No	shells, rock, silt, no obvious debris
25A	9/16/2008	13:30	No	No	sculpin, rocky/shell bottom, no obvious debris
25B	9/16/2008	13:31	No	No	low pen, kelp
25C	9/16/2008	13:31	No	No	kelp stock or wire?
26A	9/16/2008	13:37	No	No	rocky, silt, no obvious debris
26B	9/16/2008	13:38	No	No	rocks, shells, silt, no obvious debris
26C	9/16/2008	13:39	No	3%	wood piece in rocks, shells silt
27A	9/16/2008	13:45	No	No	no obvious debris
27B	9/16/2008	13:45	No	20-25%	large wood piece on surface
27C	9/16/2008	13:46	No	No	no obvious debris

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Station (CW)	Date	Time	Muni Waste	Wood Debris	Comments
28A	9/16/2008	13:48	No	No	no obvious debris
28B	9/16/2008	13:49	No	No	no obvious debris
28C	9/16/2008	13:50	No	No	no obvious debris
29A	9/16/2008	13:52	No	No	no obvious debris
29B	9/16/2008	13:53	No	No	no obvious debris
29C	9/16/2008	13:54	No	No	no obvious debris
30A	9/16/2008	13:56	No	No	possible wood piece on surface?
30B	9/16/2008	13:57	No	No	no obvious debris
30C	9/16/2008	13:58	No	No	no obvious debris
31A	9/16/2008	14:01	No	No	under pen, no obvious debris
31B	9/16/2008	14:02	No	No	no obvious debris
31C	9/16/2008	14:02	No	No	no obvious debris
32A	9/16/2008	14:06	No	No	no obvious debris
32B	9/16/2008	14:07	No	No	no obvious debris
32C	9/16/2008	14:07	No	No	no obvious debris
33A	9/16/2008	14:34	No	No	no obvious debris, void
33B	9/16/2008	14:35	No	No	no obvious debris
33C	9/16/2008	14:36	No	No	no obvious debris
34A	9/16/2008	14:39	No	No	no obvious debris
34B	9/16/2008	14:40	No	No	no obvious debris
34C	9/16/2008	14:40	No	No	no obvious debris
35A	9/16/2008	14:44	No	No	no obvious debris, sed layering
35B	9/16/2008	14:44	No	No	no obvious debris
35C	9/16/2008	14:45	No	No	no obvious debris
36A	9/16/2008	14:48	No	No	no obvious debris
36B	9/16/2008	14:49	No	No	no obvious debris
36C	9/16/2008	14:50	No	No	no obvious debris
37A	9/16/2008	14:55	No	No	no obvious debris
37B	9/16/2008	14:55	No	No	no obvious debris
37C	9/16/2008	14:56	No	No	no obvious debris
38A	9/16/2008	14:59	No	No	no obvious debris
38B	9/16/2008	15:00	No	No	no obvious debris
38C	9/16/2008	15:01	No	No	no obvious debris, methane bubbles
39A	9/16/2008	15:06	No	No	no obvious debris
39B	9/16/2008	15:07	No	No	no obvious debris
39C	9/16/2008	15:07	No	No	no obvious debris
40A	9/16/2008	15:12	No	No	no obvious debris
40B	9/16/2008	15:12	No	No	no obvious debris
40C	9/16/2008	15:13	No	No	no obvious debris, polychaete
41A	9/16/2008	15:26	No	No	rocky, no obvious debris
41B	9/16/2008	15:26	No	No	rocky, no obvious debris
41C	9/16/2008	15:27	No	No	rocky, no obvious debris
42A	9/16/2008	15:31	No	No	rocky, no obvious debris
42B	9/16/2008	15:32	No	No	rocky, no obvious debris, sea star
42C	9/16/2008	15:32	No	No	rocky, no obvious debris
43A	9/16/2008	15:37	No	No	Eelgrass, no obvious debris
43B	9/16/2008	15:38	No	No	rocky, no obvious debris
43C	9/16/2008	15:38	No	No	rocky, no obvious debris
44A	9/16/2008	15:42	No	No	rocky, no obvious debris
44B	9/16/2008	15:43	No	No	rocky, no obvious debris
44C	9/16/2008	15:43	No	No	rocky, no obvious debris
45A	9/16/2008	15:46	No	No	shells and rock on silt, methane bubbles
45B	9/16/2008	15:47	--	--	pull out
45C	9/16/2008	15:47	No	2%	possible small wood piece in upper sed column
46A	9/16/2008	15:49	No	No	shells, rock, and silt, no obvious debris
46B	9/16/2008	15:50	No	No	shells, rock, and silt, no obvious debris
46C	9/16/2008	15:51	No	No	shells, rock, and silt, no obvious debris
47A	9/16/2008	15:57	No	1%	wood piece on surface
47B	9/16/2008	15:58	No	2%	wood piece on surface
47C	9/16/2008	15:59	No	No	no obvious debris
48A	9/16/2008	16:01	No	No	no obvious debris
48B	9/16/2008	16:02	No	No	no obvious debris
48C	9/16/2008	16:03	No	No	no obvious debris
49A	9/16/2008	16:08	No	No	no obvious debris
49B	9/16/2008	16:09	No	No	no obvious debris, methane bubble
49C	9/16/2008	16:09	No	No	no obvious debris
50A	9/16/2008	16:13	No	5%	wood piece on surface
50B	9/16/2008	16:14	No	No	no obvious debris
50C	9/16/2008	16:14	No	No	no obvious debris
51A	9/16/2008	16:18	No	No	no obvious debris
51B	9/16/2008	16:18	No	No	no obvious debris
51C	9/16/2008	16:19	No	No	no obvious debris
52A	9/16/2008	16:22	No	No	no obvious debris
52B	9/16/2008	16:23	No	No	no obvious debris, polychaetes at depth
52C	9/16/2008	16:23	No	No	no obvious debris
53A	9/16/2008	16:36	No	No	no obvious debris
53B	9/16/2008	16:37	No	No	no obvious debris
53C	9/16/2008	16:38	No	No	no obvious debris
54A	9/16/2008	16:41	No	No	no obvious debris, pull out
54B	9/16/2008	16:41	No	No	no obvious debris
54C	9/16/2008	16:42	No	No	no obvious debris
55A	9/16/2008	16:46	No	10%	wood piece on surface?
55B	9/16/2008	16:47	--	--	no pen
55C	9/16/2008	16:48	--	--	no pen

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2008 SEDIMENT INVESTIGATION DATA**

Cornwall Landfill SPI Image Analysis - Preliminary Results (09/23/08)

Station (CW)	Date	Time	Muni Waste	Wood Debris	Comments
56A	9/17/2008	8:28	--	--	no pen
56B	9/17/2008	8:30	No	No	no obvious debris
56C	9/17/2008	8:31	No	No	no obvious debris
57A	9/17/2008	8:37	No	No	no obvious debris
57B	9/17/2008	8:38	No	No	no obvious debris, void
57C	9/17/2008	8:38	--	--	no pen
58A	9/17/2008	8:43	No	No	no obvious debris
58B	9/17/2008	8:44	No	No	no obvious debris
58C	9/17/2008	8:45	No	No	no obvious debris
59A	9/17/2008	8:48	No	No	no obvious debris
59B	9/17/2008	8:49	No	No	no obvious debris
59C	9/17/2008	8:49	No	No	no obvious debris
60A	9/17/2008	8:54	No	No	no obvious debris
60B	9/17/2008	8:55	No	No	no obvious debris
60C	9/17/2008	8:55	No	No	no obvious debris
61A	9/17/2008	9:01	No	No	no obvious debris
61B	9/17/2008	9:01	No	No	no obvious debris
61C	9/17/2008	9:02	No	No	no obvious debris
62A	9/17/2008	9:05	No	2-3%	possible wood particles on surface
62B	9/17/2008	9:06	No	No	possible wood particles on surface
62C	9/17/2008	9:07	No	2-3%	wood particles on surface
63A	9/17/2008	9:11	No	10-15%	wood pieces in surface sediment
63B	9/17/2008	9:12	No	No	possible wood or shell particles
63C	9/17/2008	9:12	No	No	shell particles
64A	9/17/2008	9:16	--	--	under pen
64B	9/17/2008	9:17	No	No	no obvious debris
64C	9/17/2008	9:18	--	--	disturbed
65A	9/17/2008	9:23	No	No	no obvious debris
65B	9/17/2008	9:24	No	No	no obvious debris
65C	9/17/2008	9:25	No	No	
66A	9/17/2008	9:29	No	No	wood piece or kelp draw down?
66B	9/17/2008	9:30	--	--	no pen
66C	9/17/2008	9:31	No	5%	wood piece on surface?
67A	9/17/2008	9:36	No	No	no obvious debris
67B	9/17/2008	9:36	No	No	no obvious debris
67C	9/17/2008	9:37	No	3%	wood piece on surface?
68A	9/17/2008	9:41	No	No	no obvious debris, compact bottom & no pen
68B	9/17/2008	9:41	--	--	no pen
68C	9/17/2008	9:42	--	--	no pen
69A	9/17/2008	9:48	7-10%	No	piece of glass
69B	9/17/2008	9:49	No	No	no obvious debris
69C	9/17/2008	9:50	No	No	no obvious debris, rocks and shells on surface
70A	9/17/2008	9:54	No	No	rocks and shells in sand/silt, no obvious debris
70B	9/17/2008	9:54	No	No	rocks and shells in sand/silt, no obvious debris
70C	9/17/2008	9:55	No	No	rocks and shells in sand/silt, no obvious debris
71A	9/17/2008	10:01	No	No	rocks and shell hash, low pen, no obvious debris
71B	9/17/2008	10:02	No	No	rocks and shell hash, low pen, no obvious debris
71C	9/17/2008	10:02	No	No	rocks and shell hash, low pen, no obvious debris
72A	9/17/2008	10:37	No	5%	possible fine wood particles upper 5 cm
72B	9/17/2008	10:38	No	5%	possible fine wood particles upper 5 cm
72C	9/17/2008	10:38	--	--	possible wood particles on surface, under pen
73A	9/17/2008	10:42	No	No	no obvious debris
73B	9/17/2008	10:43	--	--	no pen
73C	9/17/2008	10:43	No	No	no obvious debris
74A	9/17/2008	10:47	No	No	no obvious debris
74B	9/17/2008	10:48	No	No	no obvious debris
74C	9/17/2008	10:48	No	3%	possible fine wood particles upper 3 cm
75A	9/17/2008	10:53	No	No	rocks and shells on silt, no obvious debris
75B	9/17/2008	10:54	No	No	rocks and shells on silt, no obvious debris
75C	9/17/2008	10:54	No	No	rocks and shells on silt, no obvious debris
76A	9/17/2008	10:59	No	No	rocks and shells on silt, no obvious debris
76B	9/17/2008	10:59	No	No	rocks and shells on silt, no obvious debris
76C	9/17/2008	11:00	No	No	rocks and shells on silt, no obvious debris
77A	9/17/2008	11:03	No	3%	small wood pieces on surface
77B	9/17/2008	11:04	No	3%	small wood pieces on surface
77C	9/17/2008	11:05	No	20-25%	wood pieces on surface
78A	9/17/2008	11:10	No	2%	small wood pieces on surface
78B	9/17/2008	11:11	No	No	no obvious debris
78C	9/17/2008	11:11	No	No	no obvious debris, brittle star
79A	9/17/2008	11:17	No	No	no obvious debris
79B	9/17/2008	11:18	No	No	no obvious debris
79C	9/17/2008	11:19	No	No	no obvious debris
80A	9/17/2008	11:22	No	No	no obvious debris
80B	9/17/2008	11:23	No	No	no obvious debris
80C	9/17/2008	11:23	No	No	no obvious debris, polychaete
81A	9/17/2008	11:26	No	No	no obvious debris, small void?
81B	9/17/2008	11:27	No	No	no obvious debris
81C	9/17/2008	11:28	No	No	no obvious debris
82A	9/17/2008	11:30	5%	No	neck of glass bottle?
82B	9/17/2008	11:31	No	No	no obvious debris
82C	9/17/2008	11:31	No	No	no obvious debris
83A	9/17/2008	11:34	No	No	Eelgrass, no obvious debris
83B	9/17/2008	11:35	No	No	Eelgrass, no obvious debris
83C	9/17/2008	11:36	No	No	Eelgrass, no obvious debris

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2008 SEDIMENT INVESTIGATION DATA**

Cornwall Landfill SPI Image Analysis - Preliminary Results (09/23/08)

Station (CW)	Date	Time	Muni Waste	Wood Debris	Comments
84A	9/17/2008	12:49	No	5-7%	wood pieces on surface
84B	9/17/2008	12:50	5-7%	No	seastar on neck of bottle
84C	9/17/2008	12:51	No	No	no obvious debris, shell on surface
85A	9/17/2008	12:54	No	10%	very low pen, wood pieces on surface
85B	9/17/2008	12:55	No	10%	wood pieces, also in farfield?, low pen
85C	9/17/2008	12:55	--	--	under pen
86A	9/17/2008	13:00	10-15%	3%	bottle glass piece, small wood pieces on surface
86B	9/17/2008	13:01	No	No	no obvious debris, disturbed
86C	9/17/2008	13:02	No	5%	stick?
87A	9/17/2008	13:05	No	No	no obvious debris
87B	9/17/2008	13:05	No	No	no obvious debris
87C	9/17/2008	13:06	No	No	no obvious debris
88A	9/17/2008	13:09	No	No	no obvious debris
88B	9/17/2008	13:10	No	No	no obvious debris
88C	9/17/2008	13:11	No	No	no obvious debris
89A	9/17/2008	13:14	No	No	no obvious debris
89B	9/17/2008	13:15	No	No	under pen
89C	9/17/2008	13:15	No	No	no obvious debris
90A	9/17/2008	13:21	--	--	no pen
90B	9/17/2008	13:21	No	No	low pen
90C	9/17/2008	13:22	No	No	low pen
91A	9/17/2008	13:30	No	No	no obvious debris
91B	9/17/2008	13:31	No	No	no obvious debris
91C	9/17/2008	13:32	No	No	no obvious debris
92A	9/17/2008	13:36	No	No	possible wood in farfield, no obvious debris
92B	9/17/2008	13:37	No	No	no obvious debris
92C	9/17/2008	13:37	No	No	no obvious debris
93A	9/17/2008	13:40	--	--	no pen, disturbed
93B	9/17/2008	13:41	No	No	hard bottom, no pen
93C	9/17/2008	13:41	--	--	no pen, disturbed
94A	9/17/2008	13:44	No	No	no obvious debris, polychaete
94B	9/17/2008	13:45	No	No	no obvious debris, polychaetes at depth
94C	9/17/2008	13:46	No	No	no obvious debris
95A	9/17/2008	14:20	No	No	no obvious debris
95B	9/17/2008	14:20	No	No	no obvious debris
95C	9/17/2008	14:21	No	No	no obvious debris
96A	9/17/2008	14:24	No	No	no obvious debris
96B	9/17/2008	14:24	No	No	no obvious debris
96C	9/17/2008	14:25	No	No	no obvious debris
97A	9/17/2008	14:29	No	No	no obvious debris
97B	9/17/2008	14:30	No	No	no obvious debris
97C	9/17/2008	14:30	No	No	no obvious debris
98A	9/17/2008	14:35	No	No	no obvious debris
98B	9/17/2008	14:36	No	No	no obvious debris
98C	9/17/2008	14:36	No	No	no obvious debris, polychaete
99A	9/17/2008	14:39	No	No	no obvious debris
99B	9/17/2008	14:40	No	No	no obvious debris
99C	9/17/2008	14:41	No	2%	possible wood piece on surface?
100A	9/17/2008	14:46	No	3-5%	small wood pieces on surface, methane bubble
100B	9/17/2008	14:47	No	2-3%	small wood pieces on surface, methane bubble
100C	9/17/2008	14:48	No	1-2%	possible wood pieces on surface?
101A	9/17/2008	14:51	No	No	no obvious debris
101B	9/17/2008	14:52	No	No	no obvious debris, methane bubbles
101C	9/17/2008	14:52	No	No	no obvious debris
102A	9/17/2008	15:00	No	No	no obvious debris
102B	9/17/2008	15:01	No	No	no obvious debris
102C	9/17/2008	15:02	No	No	no obvious debris
103A	9/17/2008	15:05	No	No	no obvious debris
103B	9/17/2008	15:06	No	No	no obvious debris, void, polychaete
103C	9/17/2008	15:06	No	No	possible wood or plastic piece on surface?
104A	9/17/2008	15:11	No	No	Eelgrass, no obvious debris
104B	9/17/2008	15:12	No	3-5%	possible fine wood particles in upper 3 cm?
104C	9/17/2008	15:13	No	1-2%	possible fine wood particles in upper 2 cm?
105A	9/17/2008	15:17	No	3-5%	possible fine wood particles in upper 3 cm?
105B	9/17/2008	15:18	No	5%	wood piece and particles in upper 3 cm
105C	9/17/2008	15:19	No	No	no obvious debris
106A	9/17/2008	15:23	No	5%	fine wood particles in upper 8 cm?
106B	9/17/2008	15:24	No	No	disturbed, no obvious debris
106C	9/17/2008	15:25	No	No	disturbed, no obvious debris
107A	9/17/2008	15:30	No	No	Eelgrass, no obvious debris
107B	9/17/2008	15:31	No	No	Eelgrass, no obvious debris
107C	9/17/2008	15:31	No	No	Eelgrass, no obvious debris
108A	9/17/2008	15:35	No	No	Eelgrass, no obvious debris
108B	9/17/2008	15:36	No	No	Eelgrass, no obvious debris
108C	9/17/2008	15:37	No	10-15%	fine wood particles in upper 8 cm, eelgrass
109A	9/17/2008	15:40	No	No	Eelgrass, no obvious debris
109B	9/17/2008	15:41	No	No	Eelgrass, no obvious debris
109C	9/17/2008	15:41	No	No	Eelgrass, no obvious debris
110A	9/18/2008	7:31	No	No	no pen, algae
110B	9/18/2008	7:31	No	No	no pen, algae
110C	9/18/2008	7:32	No	No	low pen, brick piece? Rocks
111A	9/18/2008	7:36	No	No	no pen, algae
111B	9/18/2008	7:37	No	No	no pen, algae
111C	9/18/2008	7:38	No	No	no pen, rocks

**APPENDIX E-1
2008 SEDIMENT INVESTIGATION DATA**

Cornwall Landfill SPI Image Analysis - Preliminary Results (09/23/08)

Station (CW)	Date	Time	Muni Waste	Wood Debris	Comments
112A	9/18/2008	7:41	No	No	shell hash in sand, no obvious debris
112B	9/18/2008	7:42	No	No	shell hash in sand, no obvious debris
112C	9/18/2008	7:42	No	No	shell hash in sand, no obvious debris
113A	9/18/2008	7:45	No	No	no obvious debris
113B	9/18/2008	7:46	No	No	no obvious debris
113C	9/18/2008	7:46	No	No	no obvious debris
114A	9/18/2008	7:52	No	No	shell on sandy silt, no obvious debris
114B	9/18/2008	7:53	No	10%	possible wood debris upper right surface
114C	9/18/2008	7:53	No	No	shell on sandy silt, no obvious debris
115A	9/18/2008	7:56	No	No	no pen, algae
115B	9/18/2008	7:57	No	No	hard sand bottom, small shell particles, algae
115C	9/18/2008	7:58	No	No	hard sand bottom, small shell particles
116A	9/18/2008	8:05	No	5%	stick in farfield?
116B	9/18/2008	8:06	No	No	sandy hard bottom, eelgrass fronds
116C	9/18/2008	8:06	No	No	sandy hard bottom, shell particles
117A	9/18/2008	8:12	No	No	sandy hard bottom, low pen
117B	9/18/2008	8:12	No	No	sandy hard bottom, shell particles
117C	9/18/2008	8:13	No	No	sandy hard bottom, low pen
118A	9/18/2008	8:16	No	No	algae on hard bottom, no pen
118B	9/18/2008	8:17	No	No	sandy hard bottom, no pen
118C	9/18/2008	8:18	No	No	sandy hard bottom, eelgrass fronds in farfield?
119A	9/18/2008	8:31	No	No	rocky & sandy bottom, no pen
119B	9/18/2008	8:31	No	No	rocky & sandy bottom, no pen
119C	9/18/2008	8:32	No	No	rocky & sandy bottom, no pen, seastar
120A	9/18/2008	8:44	No	No	sparse eelgrass on sandy bottom, no obvious debris
120B	9/18/2008	8:45	No	No	sparse eelgrass on sandy bottom, no obvious debris
120C	9/18/2008	8:45	No	No	sparse eelgrass on sandy bottom, no obvious debris
121A	9/18/2008	8:49	No	No	eelgrass on sandy bottom
121B	9/18/2008	8:50	No	No	eelgrass on sandy bottom
121C	9/18/2008	8:51	No	No	eelgrass on sandy bottom, crab
122A	9/18/2008	8:54	No	No	Eelgrass, no obvious debris
122B	9/18/2008	8:54	No	No	Eelgrass, no obvious debris
122C	9/18/2008	8:55	No	No	Eelgrass, no obvious debris
123A	9/18/2008	8:58	No	No	Eelgrass, no obvious debris
123B	9/18/2008	8:58	No	No	Eelgrass, no obvious debris
123C	9/18/2008	8:59	No	No	Eelgrass, no obvious debris
124A	9/18/2008	9:03	No	No	Eelgrass, no obvious debris
124B	9/18/2008	9:04	No	No	Eelgrass, no obvious debris
124C	9/18/2008	9:04	No	3-5%	possible fine wood particles in upper 2 cm?
125A	9/18/2008	9:11	No	No	rocky bottom, no pen
125B	9/18/2008	9:12	No	No	rocky bottom, no pen
125C	9/18/2008	9:12	No	No	rocky bottom, no pen
126A	9/18/2008	9:17	No	No	rocky bottom, no pen
126B	9/18/2008	9:18	No	No	rocky bottom, no pen
126C	9/18/2008	9:19	No	No	rocky bottom, no pen
127A	9/18/2008	9:25	No	No	eelgrass, low pen
127B	9/18/2008	9:25	No	No	eelgrass, low pen, deceased shiner perch?
127C	9/18/2008	9:26	No	No	eelgrass, low pen
128A	9/18/2008	9:30	No	No	sandy/rocky bottom with fine shell
128B	9/18/2008	9:31	--	--	no pen
128C	9/18/2008	9:31	No	No	sandy/rocky bottom with fine shell
129A	9/18/2008	9:37	No	No	compact sandy bottom, brick piece?
129B	9/18/2008	9:38	No	No	sandy bottom, algae/bryozoan clump
129C	9/18/2008	9:38	No	No	rocks on sandy bottom
130A	9/18/2008	9:56	No	No	Eelgrass, no obvious debris
130B	9/18/2008	9:57	No	No	Eelgrass, no obvious debris
130C	9/18/2008	9:58	No	No	Eelgrass, no obvious debris
131A	9/18/2008	10:09	No	3%	possible fine wood particles in surface
131B	9/18/2008	10:09	No	1-2%	possible fine wood particles in surface
131C	9/18/2008	10:10	No	1-2%	possible fine wood particles in surface
132A	9/18/2008	10:13	No	No	no obvious debris
132B	9/18/2008	10:14	No	No	no obvious debris
132C	9/18/2008	10:15	No	No	no obvious debris
133A	9/18/2008	10:18	No	No	no obvious debris
133B	9/18/2008	10:18	No	No	no obvious debris, polychaete
133C	9/18/2008	10:19	No	No	no obvious debris
134A	9/18/2008	10:22	No	No	no obvious debris
134B	9/18/2008	10:23	No	No	no obvious debris
134C	9/18/2008	10:23	No	No	no obvious debris
135A	9/18/2008	10:33	No	No	no obvious debris
135B	9/18/2008	10:34	No	No	no obvious debris
135C	9/18/2008	10:34	No	No	no obvious debris, spionid polychaete?
136A	9/18/2008	10:38	No	No	no obvious debris
136B	9/18/2008	10:39	No	No	no obvious debris
136C	9/18/2008	10:40	No	No	no obvious debris
137A	9/18/2008	10:44	No	No	no obvious debris, methane bubbles
137B	9/18/2008	10:45	No	No	no obvious debris
137C	9/18/2008	10:46	No	No	no obvious debris
138A	9/18/2008	10:49	No	No	no obvious debris
138B	9/18/2008	10:50	No	No	no obvious debris
138C	9/18/2008	10:51	No	No	no obvious debris

Image for final analysis
-- Parameter indeterminate

**APPENDIX E-2
2008 SEDIMENT INVESTIGATION DATA**

Cornwall Avenue Landfill Mapping - Sediment Coring Observations¹

Station	Date	Time	Total Penetration (ft)	Total Recovery (ft)	Refuse? Refuse Thickness (ft)	Description	Percent by Volume ²	Wood Debris? Wood Thickness (ft)	Percent by Volume ³	Relative Percent ³ (Bark vs. Chips/Sawdust)	Bore Log Notes	Recent Overlying Sediment Layer (ft) ⁴
BLVD-SC-01	9/23/2008	1530	6.0 (refusal)	6.0	No --	refusal likely due to wood debris	--	Yes 5	25-50			1.0
BLVD-SC-02	9/23/2008	1438	9.1 (refusal)	5.4	No --	refusal due to wood debris, also caused compaction	--	Yes 5.4	25-50			0.4
BLVD-SC-03	9/23/2008	1126	11.3	6.6	No --	compaction likely due to wood debris	--	Yes 6.6	>50			0.0
BLVD-SC-04	9/23/2008	1014	11.5	10.2	No --	no native sediment observed	--	Yes 9.7	>50			0.5
BLVD-SC-05	9/22/2008	1630	14.0	14.0	No --	"native" sediments encountered at ~9.5 ft.	--	Yes 9.5	>50			0.0
BLVD-SC-06	9/22/2008	1530	15.0	7.8	No --	"native" sediments encountered at ~6 ft.	--	Yes 4.5	25-50			1.5
BLVD-SC-07	9/24/2008	902	4.0 (refusal)	3.3	No --	refusal due to wood debris	--	Yes 3.3	25-50			0.0
BLVD-SC-08	9/23/2008	1656	16.0	15.0	No --	"native" sediments encountered at ~7 ft.	--	Yes 4.5	25-50			2.5
BLVD-SC-09	9/23/2008	1818	9.7 (refusal)	8.1	No 0*	milk container fragment observed from 1.7-2.5 ft	<5	Yes 3.5	25-50	Both	bark, wood chips, sawdust	0.5
CW-002	9/25/2008	1615	5.7 (refusal)	2.2	No --	refusal caused by wood debris	--	Yes 2.2	>50	>Chips/Dust	bark and wood chips/sawdust	~ 0.5 + eelgrass
CW-003	9/26/2008	1551	6.0 (refusal)	2.7	No --	refusal and pile driving due to wood debris	--	Yes 2.7	>50	>Chips/Dust	sawdust	~ 0.5 + eelgrass
CW-005	9/29/2008	1455	7.1	1.8	Yes 0*	single piece of plastic at 1 ft, pile drive due to wood debris	<5	Yes 1.8	25-50	>Chips/Dust	wood chips, fibers	~ 1
CW-007	9/26/2008	1109	7.0	3.3	Yes 0.4	plastic fragments, rubber band, blue rubber, aluminum foil	<5	Yes 2.3	25-50	>Bark	piece of wood and bark	2.9
CW-008	9/25/2008	1150	7.0	6.3	Yes 1	plastic, tongue depressor, tin foil, sock	<5	Yes 4.3	25-50	>Chips/Dust	wood chips/sawdust and bark (3 inch)	2.0
CW-012	9/25/2008	1031	8.5	6.5	No 0*	single piece of aluminum foil in upper 0.5 ft	<5	Yes 6	>50	Both	wood chips and bark	0.5
CW-014	9/25/2008	1116	7.5	7.5	Yes 3.5	plastic pieces, bags	<5	Yes 4.5	25-50	Both	bark and wood chips	1.5
CW-017	9/29/2008	1010	8.0	3.5	Yes 0*	one shoe lace at 2.5 ft, pile drive due to wood debris	<5	Yes 2	25-50	Both	bark, wood chips/sawdust	1.5
CW-019	9/29/2008	1030	8.0	4.0	No --	pile drive due to wood debris	--	Yes 1.5	25-50	Both	bark, wood chips, sawdust	2.5
CW-025	9/29/2008	1519	refusal	refusal	-- --	glass and fine gravel at bottom may have caused refusal	--	-- --	--	--	--	0.0
CW-026	9/26/2008	1206	6.0 (refusal)	1.7	Yes 1.7	glass and plastic fragments, refusal due to gravel and refuse	<5	Yes 1.7	25-50	>Bark	bark	0.0
CW-028	9/26/2008	1303	7.0	3.7	Yes 0*	one piece of plastic at 1.5 ft	<5	Yes 2.2	25-50	>Bark	large (3-4 inch) piece of bark	1.5
CW-029	9/25/2008	1409	7.0	6.0	Yes 0.5	plastic fragments	<5	Yes 5	25-50	>Chips/Dust	moderate to abundant wood chips/sawdust	3.0
CW-031	9/29/2008	1236	6.7	3.5	No --	--	--	Yes 2	25-50	>Bark	bark, wood sticks	1.0
CW-036	9/29/2008	1307	7.7	5.5	Yes 0*	single piece of plastic (candy wrapper) at 1.8 ft	<5	No --	--	--	--	1.8

**APPENDIX E-2
2008 SEDIMENT INVESTIGATION DATA**

Cornwall Avenue Landfill Mapping - Sediment Coring Observations¹

Station	Date	Time	Total Penetration (ft)	Total Recovery (ft)	Refuse? Refuse Thickness (ft)	Description	Percent by Volume ²	Wood Debris? Wood Thickness (ft)	Percent by Volume ³	Relative Percent ³ (Bark vs. Chips/Sawdust)	Bore Log Notes	Recent Overlying Sediment Layer (ft) ⁴		
CW-048	9/26/2008	1319	6.0 (refusal)	3.9	Yes	0.4	plastic bag/fragments, christmas tinsel, detergent bottle cap, refusal due to refuse?	10	Yes	3.5	25-50	>Bark	bark	3.5
CW-049	9/25/2008	1552	7.5	4.8	Yes	2.5	plastic bags, plastic jar bottom	5-10	Yes	2.8	25-50	Both	some bark, wood chips fibers, wood chips, sawdust, piece of bark	2.0
CW-051	9/29/2008	1251	7.8	6.8	No	--	--	--	Yes	1.4	25-50	>Chips/Dust	wood chips, bark, one large wood chip	1.5
CW-053	9/25/2008	1708	6.3	2.8	No	0*	single plastic sheet at 0.8 ft, pile drive due to wood debris	<5	Yes	2	>50	>Chips/Dust	wood chip	0.8
CW-057	9/29/2008	1324	6.5	3.7	No	--	--	--	Yes	2.7	25-50	>Bark	bark	1.0
CW-061	9/25/2008	1800	7.7	5.7	Yes	2	plastic sheet, blue plastic	<5	Yes	3.7	>50	>Chips/Dust	wood chips	2.0
CW-063	9/25/2008	1729	6.5	5.0	No	--	--	--	Yes	3	>50	>Chips/Dust	wood sawdust	1.5
CW-064	9/26/2008	1414	7.6	5.0	No	--	--	--	Yes	5	25-50	>Chips/Dust	thin layer (~2 inches) of fibrous wood	3.0
CW-066	9/26/2008	1354	7.1	2.0	Yes	1	rubber gasket, plastic fragments, wood at bottom caused pile drive	<5	Yes	1	25-50	>Bark	large piece of wood (3-inch)	1.0
CW-067	9/25/2008	1634	7.9	4.8	Yes	1	plastic sheet and fragments	<5	Yes	2	>50	>Chips/Dust	bark and wood chips/sawdust	2.0
CW-068	9/26/2008	1339	8.2	2.6	Yes	0*	piece of linoleum flooring may have cause pile driving	<5	Yes	2.6	25-50	>Bark	bark	2.6
CW-075	9/26/2008	1521	4.8 (refusal)	2.3	Yes	0*	single plastic sheet at 0.7 ft	<5	Yes	2.3	25-50	Both	bark, wood chips, large piece of wood	2.3
CW-077	9/26/2008	1430	7.2	3.0	Yes	1.5	brick and glass frags, plywood piece, pile drive due to debris	5-10	Yes	3	25-50	Both	wood debris	0.0
CW-080	9/26/2008	851	8.5	7.2	No	--	--	--	Yes	4	25-50	>Chips/Dust	bark and wood chips/sawdust	3.0
CW-082	9/26/2008	1037	5.9 (refusal)	2.9	Yes	1.4	plastic bags, aluminum foil, refusal caused by wood debris	<5	Yes	1.4	25-50	>Chips/Dust	wood chips	1.5
CW-084	9/26/2008	1128	7.0	4.2	Yes	1.2	bread clip, newspaper, glass fragments	<5	Yes	3.7	25-50	>Chips/Dust	wood chips/sawdust, small bark	0.5
CW-087	9/25/2008	1343	4.5 (refusal)	2.3	Yes	0*	refusal caused by refuse, glass and porcelain frags, plastic	<5	Yes	2.3	<25	Both	debris	2.3
CW-089	9/29/2008	1146	6.1	2.5	No	--	pile drive due to wood debris	--	Yes	2	25-50	>Chips/Dust	wood chips, fibers, sawdust	0.5
CW-091	9/25/2008	1313	7.5	5.9	Yes	2	cigarette pack, paper, plastic	<5	Yes	2.5	25-50	Both	wood chips and bark	0.5
CW-093	9/29/2008	1125	7.5	5.4	Yes	0.5	small piece of leather, glass fragment	<5	Yes	2	25-50	Both	wood debris	2.5
CW-108	9/29/2008	1434	6.8	2.0	No	--	pile drive due to wood debris	--	Yes	2	>50	>Chips/Dust	sawdust/wood chips, large 3-4 inch wood piece	~ 0.5 + eelgrass
CW-113	9/26/2008	1501	6.0	3.6	Yes	0*	one small piece of plastic at 3 ft	<5	Yes	3.6	25-50	>Bark	bark (3-inch)	3.0
CW-117	9/29/2008	1538	4.0	4.0	No	--	--	--	Yes	2.5	>50	>Chips/Dust	wood chips and sawdust	< 0.5
CW-120	9/26/2008	1539	2.0 (refusal)	1.3	No	--	refusal due to wood debris	--	Yes	1.3	>50	>Chips/Dust	wood chips and sawdust	~ 0.5 + eelgrass
CW-124	9/29/2008	1503	6.2	3.8	Yes	0*	piece of fabric/textile at 3.8 ft, pile drive due to wood debris	<5	Yes	3.8	25-50	Both	--	2.0
CW-132	9/29/2008	1404	6.5	2.5	Yes	0*	single piece of plastic sheet, pile drive due to wood debris	<5	Yes	2.5	25-50	>Chips/Dust	wood chips, sawdust, fibers	1.5
CW-134	9/29/2008	1339	8.5	6.5	No	--	--	--	Yes	0.7	25-50	>Chips/Dust	fibers, wood chips	2.7

APPENDIX E-2
2008 SEDIMENT INVESTIGATION DATA

Cornwall Avenue Landfill Mapping - Sediment Coring Observations¹

Station	Date	Time	Total Penetration (ft)	Total Recovery (ft)	Refuse? Refuse Thickness (ft)	Description	Percent by Volume ²	Wood Debris? Wood Thickness (ft)	Percent by Volume ³	Relative Percent ³ (Bark vs. Chips/Sawdust)	Bore Log Notes	Recent Overlying Sediment Layer (ft) ⁴
CW-136	9/29/2008	1046	7.5	5.7	Yes 0*	small piece of plastic at 4 ft	<5	Yes 4	25-50	>Bark	primarily bark fibers, wood chips, sawdust,	1.7
CW-139	9/29/2008	1107	7.5	5.6	Yes 2	plastic frags, aluminum foil	<5	Yes 3.6	25-50	>Chips/Dust	large piece of bark (3-inches)	2.0
RGH-SC-01	8/26/2008	1654	6.0	4.5	Yes 0.5	glass fragments on surface, brick debris at 2.5 ft	<5	Yes <1	<25	>Chips/Dust	chips, sawdust, 2-inch wood chip	<0.5
RGH-SC-02	8/26/2008	1802	6.0	5.2	Yes 3	brick, glass, wire fragments on surface, brick and glass fragments at 2.25 ft to 5.2 ft	10	Yes 2.25	25-50	>Chips/Dust	scattered wood fiber on surface, 3-inch wood chips from 3 to 5.25 ft	0.5
RGH-SC-03	8/27/2008	1212	6.2	5.5	No --	brick fragments on surface	--	Yes 3	>50	>Chips/Dust	abundant wood sticks (0.5 to 4 inch long) at surface, wood chips from 2.8 ft to 5.5 ft	1.8
RGH-SC-04	8/27/2008	1149	6.0	5.7	No --	--	--	Yes 5	>50	>Chips/Dust	wood pieces (0.5 to 2 inch) from 0.7 to 2.2 ft, wood chip layers at 2.5 ft and 5.1 ft,	0.7
RGH-SC-05	8/27/2008	1127	6.0	4.5	No --	--	--	Yes 4	>50	>Chips/Dust	abundant wood pieces to 5.7 ft wood fragments 0.5 to 1.5 ft, abundant wood chips from 3 to 4.5 ft	0.5
RGH-SC-06	8/27/2008	1017	6.0	5.3	No --	--	--	Yes 3.5	>50	>Chips/Dust	root/wood fragments from surface to 2.75 ft, wood chip layers (1 to 3 cm thick) at 2.75 and 3.25 ft, wood chip layers	0.9
RGH-SC-07	9/24/2008	1403	6.8	4.9	Yes 0*	5 inch piece black plastic at 6.8'	<5	Yes 6.5	25-50	>Chips/Dust	increase to 5.25 ft wood chips, sawdust	0.5
RGH-SC-08	9/24/2008	1639	5.5	4.8	Yes 0*	plastic syringe at 5.5 ft	<5	Yes 3.5	>50	>Chips/Dust	wood chips, sawdust, fibers	2.0
RGH-SC-09	9/24/2008	1601	5.5	4.3	No --	--	--	Yes 3.5	25-50	>Chips/Dust	wood pieces (0.5 to 4 inch), increasing amounts with depth	2.0

Notes:

0* - single piece or fragment of refuse observed in core

¹ Observations are based on recovered sediment depth (not penetration depth)

² Percent by volume - visual estimate of refuse volume in sediment thickness (<5% is limit of observation)

³ Percent volume is an estimate based on field observations. Highly organic sediments (PT) contain >50% wood debris.

Bold (>50%) indicates primarily wood debris, with little sediment. Organic silts and clays (OL) contain 25-50% wood debris.

⁴ Recent sediments at some stations contain organic material including wood debris but generally less than observed with increasing sediment depth.

- Municipal refuse present with < 1.0 foot of recent overlying sediment
- Greater than 1.0 foot accumulated wood containing > 50% sawdust/wood chips with < 1.0 foot of recent overlying sediment