

## **APPENDIX A**

### **Boring/Well Construction Logs for Explorations Incorporated into RI**

**Table A-1 - Water Level Data, 2012-2014**

K-C Worldwide Site Upland Area

Location	Easting	Northing	Top of Casing Elevation	February 2012 "Low Tide"			July 2012 "Low Tide"			July 2012 "High Tide"			July 2012 "Average from Tidal Study*"	
				Date/Time	Depth to Water	Groundwater Elevation	Date/Time	Depth to Water	Groundwater Elevation	Date/Time	Depth to Water	Groundwater Elevation	Date Range	Groundwater Elevation
AP-MW-1	1301638	362341	15.45	-	-	-	7/3/12 10:56	5.83	9.62	7/6/12 7:47	5.83	9.62	7/3 to 6/12	9.6
AP-MW-1R	1301627	362337	17.99	-	-	-	-	-	-	-	-	-	-	-
BA6-MW-101	1301123	362261	14.72	-	-	-	-	-	-	-	-	-	-	-
BA-MW-1	1301350	362285	15.83	-	-	-	-	-	-	-	-	-	-	-
BA-MW-2	1301485	362288	17.46	-	-	-	-	-	-	-	-	-	-	-
BA-MW-3	1301345	362166	15.63	-	-	-	-	-	-	-	-	-	-	-
BA-MW-4	1301460	362175	16.59	-	-	-	-	-	-	-	-	-	-	-
BA-MW-5	1301148	362327	14.10	-	-	-	-	-	-	-	-	-	-	-
BA-MW-6	1301153	362260	11.30	-	-	-	-	-	-	-	-	-	-	-
BA-MW-7	1301031	362281	12.86	-	-	-	-	-	-	-	-	-	-	-
BBH-MW-101	1301271	362117	15.68	-	-	-	-	-	-	-	-	-	-	-
BBH-MW-102	1301270	362088	15.63	-	-	-	-	-	-	-	-	-	-	-
BBH-MW-103	1301417	362106	16.34	-	-	-	-	-	-	-	-	-	-	-
BBH-MW-104	1301391	362079	15.99	-	-	-	-	-	-	-	-	-	-	-
BCT-MW-101	1301832	361582	14.55	-	-	-	-	-	-	-	-	-	-	-
BCT-MW-102	1301759	361578	14.48	-	-	-	-	-	-	-	-	-	-	-
BCT-MW-103	1301683	361575	15.44	-	-	-	-	-	-	-	-	-	-	-
BCT-MW-104	1301588	361576	14.80	-	-	-	-	-	-	-	-	-	-	-
BCT-MW-105	1301594	361618	14.76	-	-	-	-	-	-	-	-	-	-	-
BCT-MW-106	1301597	361645	14.72	-	-	-	-	-	-	-	-	-	-	-
BCT-MW-107	1301595	361701	14.76	-	-	-	-	-	-	-	-	-	-	-
BCT-MW-108	1301668	361728	15.48	-	-	-	-	-	-	-	-	-	-	-
BOILER-MW 1	1301246	362183	14.99	-	-	-	-	-	-	-	-	-	-	-
CMS-MW-1	1301860	361961	14.70	-	-	-	7/3/12 11:05	1.72	12.98	7/6/12 7:50	1.73	12.97	-	-
CMS-MW-1R	1301858	361949	16.57	-	-	-	-	-	-	-	-	-	-	-
CMS-MW-2	1301997	361951	17.34	-	-	-	-	-	-	-	-	-	-	-
CN-MW-1	1301556	363792	13.84	-	-	-	-	-	-	-	-	-	-	-
CN-MW-101	1301499	363202	13.46	-	-	-	-	-	-	-	-	-	-	-
CN-MW-102	1301496	363155	13.93	-	-	-	-	-	-	-	-	-	-	-
CN-MW-103	1301499	363123	14.25	-	-	-	-	-	-	-	-	-	-	-
CN-MW-104	1301518	363179	13.65	-	-	-	-	-	-	-	-	-	-	-
CN-MW-2	1301938	363885	14.56	-	-	-	-	-	-	-	-	-	-	-
CN-MW-3	1301947	364173	13.35	-	-	-	-	-	-	-	-	-	-	-
DA-MW 1	1301858	361850	14.63	-	-	-	-	-	-	-	-	-	-	-
DAST-MW-101	1301856	361796	15.77	-	-	-	-	-	-	-	-	-	-	-
GF11-MW-101	1301786	362077	17.22	-	-	-	-	-	-	-	-	-	-	-
GF9-MW 1	1301606	362523	15.18	-	-	-	-	-	-	-	-	-	-	-

**Table A-1 - Water Level Data, 2012-2014**

K-C Worldwide Site Upland Area

Location	Easting	Northing	Top of Casing Elevation	February 2012 "Low Tide"			July 2012 "Low Tide"			July 2012 "High Tide"			July 2012 "Average from Tidal Study*"	
				Date/Time	Depth to Water	Groundwater Elevation	Date/Time	Depth to Water	Groundwater Elevation	Date/Time	Depth to Water	Groundwater Elevation	Date Range	Groundwater Elevation
GF9-MW-2	1301610	362500	18.44	-	-	-	-	-	-	-	-	-	-	-
GF9-MW-3	1301729	362536	18.73	-	-	-	-	-	-	-	-	-	-	-
HB-MW 1	1301867	362657	15.96	-	-	-	-	-	-	-	-	-	-	-
HB-MW-1R	1301866	362649	20.03	-	-	-	-	-	-	-	-	-	-	-
HBV-MW-101	1301907	362777	19.65	-	-	-	-	-	-	-	-	-	-	-
HW-MW-1	1301704	362732	15.43	-	-	-	7/3/12 11:30	5.08	10.35	7/6/12 7:59	3.72	11.71	-	-
LP-MW-1	1301459	362673	17.17	-	-	-	-	-	-	-	-	-	-	-
LP-MW-2	1301183	362668	17.69	-	-	-	-	-	-	-	-	-	-	-
MW-1	1301334	361628	14.15	2/17/12 16:13	7.95	6.20	7/3/12 10:50	8.78	5.37	7/6/12 7:32	6.48	7.67	-	-
MW-2	1301390	361597	13.23	2/17/12 16:09	8.91	4.32	7/3/12 11:02	8.55	4.68	7/6/12 7:34	5.10	8.13	-	-
MW-3	1301616	361596	15.11	2/17/12 14:59	6.68	8.43	7/3/12 11:31	7.24	7.87	7/6/12 7:49	6.93	8.18	-	-
MW-4	1301672	361660	15.20	2/17/12 15:00	6.59	8.61	7/3/12 11:26	7.02	8.18	7/6/12 7:53	6.34	8.86	-	-
MW-5	1301427	363433	13.36	2/17/12 17:41	9.29	4.07	7/3/12 10:17	8.85	4.51	7/6/12 7:34	5.92	7.44	-	-
MW-6	1301239	362762	20.43	2/17/12 17:34	13.11	7.32	7/3/12 10:50	13.04	7.39	7/6/12 7:29	13.10	7.33	7/3 to 6/12	7.5
NRP-MW-1	1301454	363324	13.56	-	-	-	7/3/12 11:02	6.07	7.49	7/6/12 7:41	5.72	7.84	-	-
NRP-MW-2	1301424	363405	15.09	-	-	-	7/3/12 11:12	8.50	6.59	7/6/12 7:37	7.99	7.10	-	-
NRP-MW-3	1301445	363454	13.30	-	-	-	7/3/12 10:28	7.72	5.58	7/6/12 7:30	5.93	7.37	-	-
NRP-MW-4	1301808	363345	15.39	-	-	-	7/3/12 10:54	5.05	10.34	7/6/12 7:48	4.94	10.45	7/3 to 6/12	1.4
NRP-MW-5	1301810	363382	15.14	-	-	-	7/3/12 10:50	4.48	10.66	7/6/12 7:49	4.43	10.71	-	-
NRS-MW-101	1301412	363349	14.07	-	-	-	-	-	-	-	-	-	-	-
NRS-MW-102	1301402	363309	13.44	-	-	-	-	-	-	-	-	-	-	-
NRU-MW-101	1301419	363383	14.98	-	-	-	-	-	-	-	-	-	-	-
NRU-MW-102	1301429	363419	14.48	-	-	-	-	-	-	-	-	-	-	-
OMS-MW-1	1301247	361669	14.68	-	-	-	7/3/12 10:45	11.41	3.27	7/6/12 7:27	7.11	7.57	-	-
OMS-MW-1R	1301247	361669	14.68	-	-	-	-	-	-	-	-	-	-	-
OPS-MW-1	1301883	362054	17.27	-	-	-	-	-	-	-	-	-	-	-
PM-MW-1	1301425	362030	15.66	-	-	-	-	-	-	-	-	-	-	-
PM-MW-2	1301546	361947	15.56	-	-	-	-	-	-	-	-	-	-	-
PM-MW-3	1301630	362091	16.85	-	-	-	-	-	-	-	-	-	-	-
PM-MW-4	1301353	361857	15.11	-	-	-	-	-	-	-	-	-	-	-
PM-MW-5	1301651	361912	15.76	-	-	-	-	-	-	-	-	-	-	-
PM-MW-6	1301231	362063	15.64	-	-	-	-	-	-	-	-	-	-	-
PM-MW-7	1301043	361875	14.97	-	-	-	-	-	-	-	-	-	-	-
PM-MW-8	1301050	362038	13.48	-	-	-	-	-	-	-	-	-	-	-
RCD-MW-101	1301050	362354	14.60	-	-	-	-	-	-	-	-	-	-	-
REC1-MW-1	1301953	361519	18.87	-	-	-	-	-	-	-	-	-	-	-
REC1-MW-10	1301702	361426	18.54	-	-	-	-	-	-	-	-	-	-	-

**Table A-1 - Water Level Data, 2012-2014**

K-C Worldwide Site Upland Area

Location	Easting	Northing	Top of Casing Elevation	February 2012 "Low Tide"			July 2012 "Low Tide"			July 2012 "High Tide"			July 2012 "Average from Tidal Study*"	
				Date/Time	Depth to Water	Groundwater Elevation	Date/Time	Depth to Water	Groundwater Elevation	Date/Time	Depth to Water	Groundwater Elevation	Date Range	Groundwater Elevation
REC1-MW-11	1301920	361307	18.55	-	-	-	-	-	-	-	-	-	-	-
REC1-MW-12	1301916	361522	18.57	-	-	-	-	-	-	-	-	-	-	-
REC1-MW-14	1301773	361498	18.53	-	-	-	-	-	-	-	-	-	-	-
REC1-MW-15	1301618	361500	13.65	-	-	-	-	-	-	-	-	-	-	-
REC1-MW-2	1301775	361459	18.85	-	-	-	-	-	-	-	-	-	-	-
REC1-MW-3	1301751	361535	18.74	-	-	-	-	-	-	-	-	-	-	-
REC1-MW-4	1301607	361547	14.81	-	-	-	-	-	-	-	-	-	-	-
REC1-MW-5	1301569	361412	14.91	-	-	-	-	-	-	-	-	-	-	-
REC1-MW-6	1301767	361307	18.77	-	-	-	-	-	-	-	-	-	-	-
REC1-MW-7	1301638	361316	18.83	-	-	-	-	-	-	-	-	-	-	-
REC1-MW-8	1301499	361411	13.30	-	-	-	-	-	-	-	-	-	-	-
REC1-MW-9	1301429	361441	12.49	-	-	-	-	-	-	-	-	-	-	-
REC2-MW-5	1301882	361789	15.05	-	-	-	7/3/12 11:10	0.73	14.32	7/6/12 7:56	0.91	14.14	-	-
REC3-MW-1	1301051	362102	14.43	-	-	-	7/3/12 10:30	8.91	5.52	7/6/12 7:38	7.45	6.98	-	-
REC3-MW-1R	1301056	362116	14.79	-	-	-	-	-	-	-	-	-	-	-
REC5-MW-1	1301248	362287	15.49	-	-	-	7/3/12 10:41	6.85	8.64	7/6/12 7:42	7.05	8.44	7/3 to 6/12	8.7
REC5-MW-1R	1301248	362282	15.89	-	-	-	-	-	-	-	-	-	-	-
REC6-MW-1	1301673	362819	15.38	-	-	-	7/3/12 11:45	5.49	9.89	7/6/12 0:00	-	-	-	-
REC6-MW-2	1301331	362874	16.67	-	-	-	7/3/12 11:53	9.05	7.62	7/6/12 7:25	8.83	7.84	-	-
REC7-MW-1	1301520	363659	13.14	-	-	-	7/3/12 10:35	7.70	5.44	7/6/12 7:20	5.86	7.28	7/3 to 6/12	6.9
REC7-MW-2	1301358	363144	15.11	-	-	-	7/3/12 11:50	7.01	8.10	7/6/12 7:43	6.64	8.47	7/3 to 6/12	8.5
REC7-MW-3	1301068	361727	14.92	-	-	-	7/3/12 10:40	9.43	5.49	7/6/12 7:25	6.97	7.95	7/3 to 6/12	6.9
REC7-MW-3	1301068	361727	14.92	-	-	-	-	-	-	-	-	-	-	-
REC7-MW-4	1301406	361493	12.69	-	-	-	7/3/12 11:16	9.18	3.51	7/6/12 7:39	4.93	7.76	7/3 to 6/12	6.5
SHB-MW-1	1301243	362553	15.44	-	-	-	-	-	-	-	-	-	-	-
SHB-MW-101	1301229	362581	16.10	-	-	-	-	-	-	-	-	-	-	-
SHB-MW-102	1301231	362554	15.81	-	-	-	-	-	-	-	-	-	-	-
SHB-MW-2	1301149	362491	14.50	-	-	-	-	-	-	-	-	-	-	-
TM-MW-1	1301626	363170	15.18	-	-	-	-	-	-	-	-	-	-	-
TM-MW-2	1301795	363125	17.95	-	-	-	-	-	-	-	-	-	-	-
TM-MW-3	1302003	363148	18.39	-	-	-	-	-	-	-	-	-	-	-
TM-MW-4	1301857	362922	18.45	-	-	-	-	-	-	-	-	-	-	-
TM-MW-5	1301544	363044	14.73	-	-	-	-	-	-	-	-	-	-	-
TM-MW-6	1301342	363006	15.98	-	-	-	-	-	-	-	-	-	-	-
UG-MW-1	1302148	363340	16.95	-	-	-	7/3/12 11:58	1.21	15.74	7/6/12 7:55	1.20	15.75	-	-
UG-MW-2	1302024	362365	18.05	-	-	-	7/3/12 11:00	4.55	13.50	7/6/12 7:55	4.50	13.55	-	-
UG-MW-2R	1302000	362356	18.80	-	-	-	-	-	-	-	-	-	-	-

**Table A-1 - Water Level Data, 2012-2014**

K-C Worldwide Site Upland Area

Location	Easting	Northing	Top of Casing Elevation	February 2012 "Low Tide"			July 2012 "Low Tide"			July 2012 "High Tide"			July 2012 "Average from Tidal Study*"	
				Date/Time	Depth to Water	Groundwater Elevation	Date/Time	Depth to Water	Groundwater Elevation	Date/Time	Depth to Water	Groundwater Elevation	Date Range	Groundwater Elevation
UST29-MW-1	1301647	362816	15.24	-	-	-	7/3/12 11:40	4.69	10.55	7/6/12 0:00	-	-	-	-
UST29-MW-101	1301584	362861	16.95	-	-	-	-	-	-	-	-	-	-	-
UST29-MW-102	1301605	362819	17.54	-	-	-	-	-	-	-	-	-	-	-
UST29-MW-103	1301657	362816	17.36	-	-	-	-	-	-	-	-	-	-	-
UST68-MW-1	1301537	361783	15.12	-	-	-	7/3/12 11:16	7.55	7.57	7/6/12 7:46	7.19	7.93	7/3 to 6/12	7.9
UST68-MW-2	1301411	361732	15.33	-	-	-	7/3/12 11:27	7.98	7.35	7/6/12 7:43	7.92	7.41	-	-
UST68-MW-4	1301483	361601	14.34	-	-	-	7/3/12 11:07	6.85	7.49	7/6/12 7:37	6.54	7.80	-	-
UST68-MW-5	1301375	361645	14.12	-	-	-	7/3/12 11:00	7.10	7.02	7/6/12 7:31	6.89	7.23	7/3 to 6/12	7.2
UST68-MW-6	1301587	361639	15.20	-	-	-	-	-	-	-	-	-	-	-
UST69-MW-1	1301555	362846	14.88	-	-	-	7/3/12 11:41	4.60	10.28	7/6/12 7:30	3.60	11.28	7/3 to 6/12	11.1
UST70-MW-1	1301076	362234	14.65	-	-	-	7/3/12 10:35	8.23	6.42	7/6/12 7:34	7.13	7.52	-	-
UST70-MW-101	1301056	362238	14.73	-	-	-	-	-	-	-	-	-	-	-
UST70-MW-102	1301058	362208	14.72	-	-	-	-	-	-	-	-	-	-	-
UST70-MW-2	1301043	362221	14.23	-	-	-	7/3/12 10:33	7.64	6.59	7/6/12 7:32	6.90	7.33	7/3 to 6/12	7.6
UST71-MW-1	1301192	362185	13.66	-	-	-	7/3/12 10:41	6.43	7.23	7/6/12 7:35	5.96	7.70	-	-
UST71-MW-101	1301169	362210	14.53	-	-	-	-	-	-	-	-	-	-	-
UST71-MW-102	1301166	362160	14.74	-	-	-	-	-	-	-	-	-	-	-
UST71-MW-103	1301171	362136	15.16	-	-	-	-	-	-	-	-	-	-	-
UST71-MW-104	1301242	362214	15.98	-	-	-	-	-	-	-	-	-	-	-
TM-1 (tide)	1300951	362325	16.63	-	-	-	7/3/12 11:05	19.47	-2.84	7/6/12 7:44	9.00	7.63	7/3 to 6/12	4.6

**Notes:**

"-" denotes no measurement collected.

All depths to water and elevations are in feet.

Horizontal coordinates relative to Washington State Plane North.

Elevations relative to NAVD88 vertical datum.

\*: Refer to tidal study description in Aspect (2013b).

**Table A-1 - Water Level Data, 2012-2014**

K-C Worldwide Site Upland Area

Location	Easting	Northing	Top of Casing Elevation	September 2012 "Low Tide"			September 2012 "High Tide"			November 2013 "Middle Tide"			May 2014 "Middle Tide"		
				Date/Time	Depth to Water	Groundwater Elevation	Date/Time	Depth to Water	Groundwater Elevation	Date/Time	Depth to Water	Groundwater Elevation	Date/Time	Depth to Water	Groundwater Elevation
AP-MW-1	1301638	362341	15.45	9/14/12 11:00	6.90	8.55	9/13/12 16:49	6.78	8.67	11/26/13 8:53	9.63	5.82	-	-	-
AP-MW-1R	1301627	362337	17.99	-	-	-	-	-	-	-	-	-	5/8/14 11:46	8.39	9.60
BA6-MW-101	1301123	362261	14.72	-	-	-	-	-	-	-	-	-	5/8/14 11:23	8.17	6.55
BA-MW-1	1301350	362285	15.83	-	-	-	-	-	-	11/26/13 8:45	9.17	6.66	5/8/14 11:34	7.43	8.40
BA-MW-2	1301485	362288	17.46	-	-	-	-	-	-	11/26/13 8:50	9.79	7.67	5/8/14 11:42	8.36	9.10
BA-MW-3	1301345	362166	15.63	-	-	-	-	-	-	11/26/13 8:34	9.29	6.34	5/8/14 12:03	7.21	8.42
BA-MW-4	1301460	362175	16.59	-	-	-	-	-	-	11/26/13 8:38	8.40	8.19	5/8/14 11:58	6.14	10.45
BA-MW-5	1301148	362327	14.10	-	-	-	-	-	-	11/26/13 8:10	8.36	5.74	5/8/14 11:25	7.10	7.00
BA-MW-6	1301153	362260	11.30	-	-	-	-	-	-	11/26/13 8:07	6.04	5.26	-	-	-
BA-MW-7	1301031	362281	12.86	-	-	-	-	-	-	11/26/13 8:05	7.83	5.03	5/8/14 11:23	7.08	5.78
BBH-MW-101	1301271	362117	15.68	-	-	-	-	-	-	-	-	-	5/8/14 11:32	7.62	8.06
BBH-MW-102	1301270	362088	15.63	-	-	-	-	-	-	-	-	-	5/8/14 11:29	7.44	8.19
BBH-MW-103	1301417	362106	16.34	-	-	-	-	-	-	-	-	-	5/8/14 11:54	6.54	9.80
BBH-MW-104	1301391	362079	15.99	-	-	-	-	-	-	-	-	-	5/8/14 11:51	6.37	9.62
BCT-MW-101	1301832	361582	14.55	-	-	-	-	-	-	-	-	-	5/8/14 11:52	0.58	13.97
BCT-MW-102	1301759	361578	14.48	-	-	-	-	-	-	-	-	-	5/8/14 12:00	1.01	13.47
BCT-MW-103	1301683	361575	15.44	-	-	-	-	-	-	-	-	-	5/8/14 12:04	5.15	10.29
BCT-MW-104	1301588	361576	14.80	-	-	-	-	-	-	-	-	-	5/8/14 11:24	5.83	8.97
BCT-MW-105	1301594	361618	14.76	-	-	-	-	-	-	-	-	-	5/8/14 11:28	5.79	8.97
BCT-MW-106	1301597	361645	14.72	-	-	-	-	-	-	-	-	-	5/8/14 11:36	5.82	8.90
BCT-MW-107	1301595	361701	14.76	-	-	-	-	-	-	-	-	-	5/8/14 11:39	6.08	8.68
BCT-MW-108	1301668	361728	15.48	-	-	-	-	-	-	-	-	-	5/8/14 11:44	6.41	9.07
BOILER-MW 1	1301246	362183	14.99	9/14/12 9:48	8.14	6.85	9/13/12 16:42	8.07	6.92	-	-	-	-	-	-
CMS-MW-1	1301860	361961	14.70	9/14/12 11:48	2.35	12.35	9/13/12 15:57	2.31	12.39	-	-	-	-	-	-
CMS-MW-1R	1301858	361949	16.57	-	-	-	-	-	-	11/26/13 9:11	3.86	12.71	5/8/14 12:19	2.97	13.60
CMS-MW-2	1301997	361951	17.34	-	-	-	-	-	-	11/26/13 9:14	3.57	13.77	5/8/14 12:14	2.52	14.82
CN-MW-1	1301556	363792	13.84	-	-	-	-	-	-	11/26/13 9:04	5.40	8.44	5/8/14 10:33	5.17	8.67
CN-MW-101	1301499	363202	13.46	-	-	-	-	-	-	-	-	-	5/8/14 11:15	4.21	9.25
CN-MW-102	1301496	363155	13.93	-	-	-	-	-	-	-	-	-	5/8/14 11:19	3.44	10.49
CN-MW-103	1301499	363123	14.25	-	-	-	-	-	-	-	-	-	5/8/14 11:21	3.33	10.92
CN-MW-104	1301518	363179	13.65	-	-	-	-	-	-	-	-	-	5/8/14 11:17	3.10	10.55
CN-MW-2	1301938	363885	14.56	-	-	-	-	-	-	11/26/13 9:13	3.75	10.81	5/8/14 11:53	3.51	11.05
CN-MW-3	1301947	364173	13.35	-	-	-	-	-	-	11/26/13 9:20	3.35	10.00	5/8/14 12:01	2.97	10.38
DA-MW 1	1301858	361850	14.63	9/14/12 11:45	1.41	13.22	9/13/12 15:15	1.38	13.25	-	-	-	-	-	-
DAST-MW-101	1301856	361796	15.77	-	-	-	-	-	-	-	-	-	5/8/14 11:48	1.39	14.38
GF11-MW-101	1301786	362077	17.22	-	-	-	-	-	-	-	-	-	5/8/14 12:11	5.86	11.36
GF9-MW 1	1301606	362523	15.18	9/14/12 11:49	6.95	8.23	9/13/12 16:55	6.57	8.61	11/26/13 8:32	6.46	8.72	-	-	-

**Table A-1 - Water Level Data, 2012-2014**

K-C Worldwide Site Upland Area

Location	Easting	Northing	Top of Casing Elevation	September 2012 "Low Tide"			September 2012 "High Tide"			November 2013 "Middle Tide"			May 2014 "Middle Tide"		
				Date/Time	Depth to Water	Groundwater Elevation	Date/Time	Depth to Water	Groundwater Elevation	Date/Time	Depth to Water	Groundwater Elevation	Date/Time	Depth to Water	Groundwater Elevation
GF9-MW-2	1301610	362500	18.44	-	-	-	-	-	-	11/26/13 8:30	10.05	8.39	5/8/14 11:50	8.87	9.57
GF9-MW-3	1301729	362536	18.73	-	-	-	-	-	-	11/26/13 8:55	7.68	11.05	5/8/14 11:54	6.45	12.28
HB-MW 1	1301867	362657	15.96	9/14/12 11:51	5.05	10.91	9/13/12 15:47	4.99	10.97	-	-	-	-	-	-
HB-MW-1R	1301866	362649	20.03	-	-	-	-	-	-	11/26/13 8:56	8.83	11.20	5/8/14 12:00	7.48	12.55
HBV-MW-101	1301907	362777	19.65	-	-	-	-	-	-	-	-	-	5/8/14 11:58	7.35	12.30
HW-MW-1	1301704	362732	15.43	9/14/12 10:48	4.68	10.75	9/13/12 15:51	4.79	10.64	11/26/13 8:58	3.68	11.75	-	-	-
LP-MW-1	1301459	362673	17.17	-	-	-	-	-	-	11/26/13 8:25	2.13	15.04	5/8/14 11:42	3.50	13.67
LP-MW-2	1301183	362668	17.69	-	-	-	-	-	-	11/26/13 8:20	7.86	9.83	5/8/14 10:51	3.72	13.97
MW-1	1301334	361628	14.15	9/14/12 11:06	8.94	5.21	9/13/12 16:15	7.46	6.69	11/26/13 7:56	6.43	7.72	5/8/14 10:36	8.57	5.58
MW-2	1301390	361597	13.23	9/14/12 10:57	9.08	4.15	9/13/12 16:13	5.00	8.23	11/26/13 8:00	7.61	5.62	5/8/14 10:41	8.73	4.50
MW-3	1301616	361596	15.11	9/14/12 11:25	7.50	7.61	9/13/12 15:55	7.46	7.65	-	Can't Oper	-	-	-	-
MW-4	1301672	361660	15.20	9/14/12 11:23	7.32	7.88	9/13/12 15:50	7.35	7.85	11/26/13 9:00	2.55	12.65	-	-	-
MW-5	1301427	363433	13.36	9/14/12 10:19	9.50	3.86	9/13/12 16:32	6.96	6.40	11/26/13 8:43	7.42	5.94	5/8/14 10:45	7.36	6.00
MW-6	1301239	362762	20.43	9/14/12 10:05	13.44	6.99	9/13/12 16:14	13.03	7.40	11/26/13 8:23	13.43	7.00	5/8/14 10:35	12.80	7.63
NRP-MW-1	1301454	363324	13.56	9/14/12 10:14	6.57	6.99	9/13/12 16:24	6.40	7.16	11/26/13 7:50	6.30	7.26	-	-	-
NRP-MW-2	1301424	363405	15.09	9/14/12 10:17	9.28	5.81	9/13/12 16:30	9.02	6.07	11/26/13 8:40	8.90	6.19	5/8/14 10:54	8.51	6.58
NRP-MW-3	1301445	363454	13.30	9/14/12 10:21	8.16	5.14	9/13/12 16:35	6.92	6.38	11/26/13 8:47	7.41	5.89	5/8/14 10:42	7.02	6.28
NRP-MW-4	1301808	363345	15.39	9/14/12 10:31	5.34	10.05	9/13/12 16:45	5.25	10.14	-	-	-	-	-	-
NRP-MW-5	1301810	363382	15.14	9/14/12 10:32	4.77	10.37	9/13/12 16:48	4.74	10.40	-	-	-	-	-	-
NRS-MW-101	1301412	363349	14.07	-	-	-	-	-	-	-	-	-	5/8/14 10:58	8.96	5.11
NRS-MW-102	1301402	363309	13.44	-	-	-	-	-	-	-	-	-	5/8/14 11:00	8.33	5.11
NRU-MW-101	1301419	363383	14.98	-	-	-	-	-	-	-	-	-	5/8/14 10:56	9.26	5.72
NRU-MW-102	1301429	363419	14.48	-	-	-	-	-	-	-	-	-	5/8/14 10:51	8.36	6.12
OMS-MW-1	1301247	361669	14.68	9/14/12 11:02	11.46	3.22	9/13/12 16:19	7.92	6.76	11/26/13 8:16	9.69	4.99	5/8/14 10:35	9.3	5.38
OMS-MW-1R	1301247	361669	14.68	-	-	-	-	-	-	-	-	-	5/8/14 10:35	9.30	5.38
OPS-MW-1	1301883	362054	17.27	-	-	-	-	-	-	11/26/13 9:07	5.40	11.87	5/8/14 12:14	4.20	13.07
PM-MW-1	1301425	362030	15.66	-	-	-	-	-	-	11/26/13 8:55	7.72	7.94	5/8/14 11:47	6.14	9.52
PM-MW-2	1301546	361947	15.56	-	-	-	-	-	-	11/26/13 8:58	8.12	7.44	5/8/14 12:09	6.88	8.68
PM-MW-3	1301630	362091	16.85	-	-	-	-	-	-	11/26/13 9:04	6.61	10.24	5/8/14 12:20	4.93	11.92
PM-MW-4	1301353	361857	15.11	-	-	-	-	-	-	11/26/13 8:24	8.97	6.14	5/8/14 11:40	7.87	7.24
PM-MW-5	1301651	361912	15.76	-	-	-	-	-	-	11/26/13 9:00	5.22	10.54	5/8/14 12:14	5.04	10.72
PM-MW-6	1301231	362063	15.64	-	-	-	-	-	-	11/26/13 8:26	9.89	5.75	5/8/14 11:25	8.78	6.86
PM-MW-7	1301043	361875	14.97	-	-	-	-	-	-	11/26/13 8:09	9.99	4.98	5/8/14 10:46	8.89	6.08
PM-MW-8	1301050	362038	13.48	-	-	-	-	-	-	11/26/13 8:02	8.73	4.75	5/8/14 10:54	7.75	5.73
RCD-MW-101	1301050	362354	14.60	-	-	-	-	-	-	-	-	-	5/8/14 11:11	10.26	4.34
REC1-MW-1	1301953	361519	18.87	9/14/12 11:31	5.15	13.72	9/13/12 16:48	5.14	13.73	11/26/13 9:33	4.51	14.36	5/8/14 11:02	3.97	14.90
REC1-MW-10	1301702	361426	18.54	-	-	-	-	-	-	11/26/13 9:39	6.47	12.07	5/8/14 10:42	6.14	12.40

**Table A-1 - Water Level Data, 2012-2014**

K-C Worldwide Site Upland Area

Location	Easting	Northing	Top of Casing Elevation	September 2012 "Low Tide"			September 2012 "High Tide"			November 2013 "Middle Tide"			May 2014 "Middle Tide"		
				Date/Time	Depth to Water	Groundwater Elevation	Date/Time	Depth to Water	Groundwater Elevation	Date/Time	Depth to Water	Groundwater Elevation	Date/Time	Depth to Water	Groundwater Elevation
REC1-MW-11	1301920	361307	18.55	-	-	-	-	-	-	11/26/13 9:33	3.31	15.24	5/8/14 10:57	3.46	15.09
REC1-MW-12	1301916	361522	18.57	-	-	-	-	-	-	11/26/13 9:30	4.90	13.67	5/8/14 10:59	4.23	14.34
REC1-MW-14	1301773	361498	18.53	-	-	-	-	-	-	11/26/13 9:23	5.61	12.92	5/8/14 10:47	5.08	13.45
REC1-MW-15	1301618	361500	13.65	-	-	-	-	-	-	11/26/13 8:40	5.61	8.04	5/8/14 11:15	4.51	9.14
REC1-MW-2	1301775	361459	18.85	9/14/12 11:31	6.10	12.75	9/13/12 16:51	6.09	12.76	11/26/13 9:27	5.74	13.11	5/8/14 10:45	5.29	13.56
REC1-MW-3	1301751	361535	18.74	9/14/12 11:34	5.82	12.92	9/13/12 16:53	5.81	12.93	11/26/13 9:19	5.60	13.14	5/8/14 10:50	4.93	13.81
REC1-MW-4	1301607	361547	14.81	9/14/12 11:28	7.14	7.67	9/13/12 15:59	7.05	7.76	11/26/13 8:47	6.36	8.45	5/8/14 11:18	5.20	9.61
REC1-MW-5	1301569	361412	14.91	9/14/12 11:21	6.97	7.94	9/13/12 16:40	6.74	8.17	11/26/13 9:20	6.42	8.49	5/8/14 11:09	5.57	9.34
REC1-MW-6	1301767	361307	18.77	9/14/12 11:28	8.26	10.51	9/13/12 16:45	8.22	10.55	11/26/13 9:46	7.94	10.83	5/8/14 10:54	7.35	11.42
REC1-MW-7	1301638	361316	18.83	9/14/12 11:26	9.44	9.39	9/13/12 16:43	9.46	9.37	11/26/13 9:43	8.56	10.27	5/8/14 10:39	8.58	10.25
REC1-MW-8	1301499	361411	13.30	9/14/12 11:19	7.09	6.21	9/13/12 16:02	6.42	6.88	11/26/13 8:20	7.31	5.99	5/8/14 11:05	6.96	6.34
REC1-MW-9	1301429	361441	12.49	9/14/12 11:12	6.78	5.71	9/13/12 16:04	6.23	6.26	11/26/13 8:12	7.41	5.08	5/8/14 10:53	5.40	7.09
REC2-MW-5	1301882	361789	15.05	9/14/12 11:43	1.47	13.58	9/13/12 15:54	1.43	13.62	-	-	-	-	-	-
REC3-MW-1	1301051	362102	14.43	9/14/12 10:43	7.66	6.77	9/13/12 16:20	8.76	5.67	-	-	-	-	-	-
REC3-MW-1R	1301056	362116	14.79	-	-	-	-	-	-	11/26/13 8:06	10.30	4.49	5/8/14 11:01	9.12	5.67
REC5-MW-1	1301248	362287	15.49	9/14/12 10:04	8.16	7.33	9/13/12 16:44	8.16	7.33	-	-	-	-	-	-
REC5-MW-1R	1301248	362282	15.89	-	-	-	-	-	-	11/26/13 8:40	9.80	6.09	5/8/14 11:31	7.70	8.19
REC6-MW-1	1301673	362819	15.38	9/14/12 10:41	4.01	11.37	9/13/12 15:55	4.01	11.37	-	-	-	-	-	-
REC6-MW-2	1301331	362874	16.67	9/14/12 10:08	9.73	6.94	9/13/12 16:04	9.60	7.07	11/26/13 8:22	9.40	7.27	5/8/14 11:31	8.48	8.19
REC7-MW-1	1301520	363659	13.14	9/14/12 10:24	7.33	5.81	9/13/12 16:39	6.01	7.13	11/26/13 8:56	7.00	6.14	5/8/14 10:37	6.77	6.37
REC7-MW-2	1301358	363144	15.11	9/14/12 10:10	7.42	7.69	9/13/12 16:20	7.18	7.93	11/26/13 8:03	7.15	7.96	5/8/14 11:06	6.57	8.54
REC7-MW-3	1301068	361727	14.92	9/14/12 11:04	10.31	4.61	9/13/12 16:23	6.95	7.97	11/26/13 8:14	10.04	4.88	5/8/14 10:41	9.45	5.47
REC7-MW-3	1301068	361727	14.92	-	-	-	-	-	-	-	-	-	5/8/14 10:41	9.45	5.47
REC7-MW-4	1301406	361493	12.69	9/14/12 11:14	9.46	3.23	9/13/12 16:31	4.43	8.26	11/26/13 8:05	7.14	5.55	5/8/14 10:46	8.41	4.28
SHB-MW-1	1301243	362553	15.44	-	-	-	-	-	-	11/26/13 8:17	9.45	5.99	-	-	-
SHB-MW-101	1301229	362581	16.10	-	-	-	-	-	-	-	-	-	5/8/14 10:54	9.11	6.99
SHB-MW-102	1301231	362554	15.81	-	-	-	-	-	-	-	-	-	5/8/14 10:55	8.80	7.01
SHB-MW-2	1301149	362491	14.50	-	-	-	-	-	-	11/26/13 8:15	8.72	5.78	5/8/14 10:58	7.64	6.86
TM-MW-1	1301626	363170	15.18	-	-	-	-	-	-	11/26/13 9:37	6.60	8.58	5/8/14 11:28	2.96	12.22
TM-MW-2	1301795	363125	17.95	-	-	-	-	-	-	11/26/13 10:02	6.37	11.58	5/8/14 11:32	5.39	12.56
TM-MW-3	1302003	363148	18.39	-	-	-	-	-	-	11/26/13 10:08	4.27	14.12	5/8/14 11:41	3.68	14.71
TM-MW-4	1301857	362922	18.45	-	-	-	-	-	-	11/26/13 9:56	6.15	12.30	5/8/14 11:36	5.08	13.37
TM-MW-5	1301544	363044	14.73	-	-	-	-	-	-	11/26/13 9:45	4.66	10.07	5/8/14 11:25	3.29	11.44
TM-MW-6	1301342	363006	15.98	-	-	-	-	-	-	11/26/13 8:08	8.25	7.73	5/8/14 11:09	7.36	8.62
UG-MW-1	1302148	363340	16.95	9/14/12 10:34	1.30	15.65	9/13/12 16:52	1.25	15.70	11/26/13 10:16	0.84	16.11	5/8/14 11:46	0.44	16.51
UG-MW-2	1302024	362365	18.05	9/14/12 11:45	5.09	12.96	9/13/12 16:51	5.08	12.97	-	-	-	-	-	-
UG-MW-2R	1302000	362356	18.80	-	-	-	-	-	-	11/26/13 9:05	5.65	13.15	5/8/14 12:03	4.95	13.85



**Table A-1 - Water Level Data, 2012-2014**

K-C Worldwide Site Upland Area

Location	Easting	Northing	Top of Casing Elevation	September 2012 "Low Tide"			September 2012 "High Tide"			November 2013 "Middle Tide"			May 2014 "Middle Tide"		
				Date/Time	Depth to Water	Groundwater Elevation	Date/Time	Depth to Water	Groundwater Elevation	Date/Time	Depth to Water	Groundwater Elevation	Date/Time	Depth to Water	Groundwater Elevation
UST29-MW-1	1301647	362816	15.24	9/14/12 10:43	4.03	11.21	9/13/12 16:01	4.02	11.22	-	-	-	-	-	-
UST29-MW-101	1301584	362861	16.95	-	-	-	-	-	-	-	-	-	5/8/14 11:50	4.83	12.12
UST29-MW-102	1301605	362819	17.54	-	-	-	-	-	-	-	-	-	5/8/14 11:51	5.48	12.06
UST29-MW-103	1301657	362816	17.36	-	-	-	-	-	-	-	-	-	5/8/14 11:53	5.14	12.22
UST68-MW-1	1301537	361783	15.12	9/14/12 11:20	8.01	7.11	9/13/12 15:49	7.98	7.14	-	-	-	-	-	-
UST68-MW-2	1301411	361732	15.33	9/14/12 11:18	8.59	6.74	9/13/12 15:48	8.59	6.74	-	-	-	-	-	-
UST68-MW-4	1301483	361601	14.34	9/14/12 11:14	7.25	7.09	9/13/12 16:37	7.12	7.22	-	-	-	-	-	-
UST68-MW-5	1301375	361645	14.12	9/14/12 11:10	7.69	6.43	9/13/12 16:11	7.65	6.47	11/26/13 8:26	6.98	7.14	5/8/14 10:57	6.62	7.50
UST68-MW-6	1301587	361639	15.20	9/14/12 11:26	7.89	7.31	9/13/12 16:35	7.76	7.44	-	-	-	-	-	-
UST69-MW-1	1301555	362846	14.88	9/14/12 10:45	3.76	11.12	9/13/12 15:57	3.75	11.13	-	-	-	-	-	-
UST70-MW-1	1301076	362234	14.65	9/14/12 10:51	8.82	5.83	9/13/12 16:31	8.18	6.47	-	-	-	-	-	-
UST70-MW-101	1301056	362238	14.73	-	-	-	-	-	-	-	-	-	5/8/14 11:15	8.58	6.15
UST70-MW-102	1301058	362208	14.72	-	-	-	-	-	-	-	-	-	5/8/14 11:17	8.68	6.04
UST70-MW-2	1301043	362221	14.23	9/14/12 10:49	8.69	5.54	9/13/12 16:27	8.10	6.13	11/26/13 7:58	8.65	5.58	5/8/14 11:17	7.55	6.68
UST71-MW-1	1301192	362185	13.66	9/14/12 10:38	7.29	6.37	9/13/12 16:38	7.15	6.51	-	-	-	-	-	-
UST71-MW-101	1301169	362210	14.53	-	-	-	-	-	-	-	-	-	5/8/14 11:11	7.79	6.74
UST71-MW-102	1301166	362160	14.74	-	-	-	-	-	-	-	-	-	5/8/14 11:07	7.96	6.78
UST71-MW-103	1301171	362136	15.16	-	-	-	-	-	-	-	-	-	5/8/14 11:14	7.45	7.71
UST71-MW-104	1301242	362214	15.98	-	-	-	-	-	-	-	-	-	5/8/14 11:19	8.57	7.41
TM-1 (tide)	1300951	362325	16.63	9/14/12 10:48	17.99	-1.36	9/13/12 16:35	8.58	8.05	-	-	-	5/8/14 11:09	10.94	5.69

**Notes:**

"-" denotes no measurement collected.

All depths to water and elevations are in feet.

Horizontal coordinates relative to Washington State Plane North.

Elevations relative to NAVD88 vertical datum.

\*: Refer to tidal study description in Aspect (2013b).

Coarse-Grained Soils - More than 50% (1) Retained on No. 200 Sieve		Terms Describing Relative Density and Consistency	
Coarse-Grained Soils - More than 50% (1) Retained on No. 200 Sieve Gravels - More than 50% (1) of Coarse Fraction Retained on No. 4 Sieve Sands - 50% (1) or More of Coarse Fraction Passes No. 4 Sieve	Gravels - $\leq 5\%$ Fines (5)	GW	Well-graded gravel and gravel with sand, little to no fines
	Gravels - $\leq 5\%$ Fines (5)	GP	Poorly-graded gravel and gravel with sand, little to no fines
	Gravels - $\geq 15\%$ Fines (5)	GM	Silty gravel and silty gravel with sand
	Gravels - $\geq 15\%$ Fines (5)	GC	Clayey gravel and clayey gravel with sand
	Sands - $\leq 5\%$ Fines (5)	SW	Well-graded sand and sand with gravel, little to no fines
	Sands - $\leq 5\%$ Fines (5)	SP	Poorly-graded sand and sand with gravel, little to no fines
Fine-Grained Soils - 50% (1) or More Passes No. 200 Sieve Silts and Clays Liquid Limit Less than 50 Silts and Clays Liquid Limit 50 or More	Sands - $\geq 15\%$ Fines (5)	SM	Silty sand and silty sand with gravel
	Sands - $\geq 15\%$ Fines (5)	SC	Clayey sand and clayey sand with gravel
	Silts and Clays Liquid Limit Less than 50	ML	Silt, sandy silt, gravelly silt, silt with sand or gravel
		CL	Clay of low to medium plasticity; silty, sandy, or gravelly clay, lean clay
		OL	Organic clay or silt of low plasticity
		Silts and Clays Liquid Limit 50 or More	MH
CH	Clay of high plasticity, sandy or gravelly clay, fat clay with sand or gravel		
OH	Organic clay or silt of medium to high plasticity		
Highly Organic Soils	PT	Peat, muck and other highly organic soils	

Terms Describing Relative Density and Consistency		
Coarse-Grained Soils	<u>Density</u>	<u>SPT (2) blows/foot</u>
	Very Loose	0 to 4
	Loose	4 to 10
	Medium Dense	10 to 30
	Dense	30 to 50
Very Dense	>50	
Fine-Grained Soils	<u>Consistency</u>	<u>SPT (2) blows/foot</u>
	Very Soft	0 to 2
	Soft	2 to 4
	Medium Stiff	4 to 8
	Stiff	8 to 15
	Very Stiff	15 to 30
	Hard	>30

Component Definitions	
<u>Descriptive Term</u>	<u>Size Range and Sieve Number</u>
Boulders	Larger than 12"
Cobbles	3" to 12"
Gravel	3" to No. 4 (4.75 mm)
Coarse Gravel	3" to 3/4"
Fine Gravel	3/4" to No. 4 (4.75 mm)
Sand	No. 4 (4.75 mm) to No. 200 (0.075 mm)
Coarse Sand	No. 4 (4.75 mm) to No. 10 (2.00 mm)
Medium Sand	No. 10 (2.00 mm) to No. 40 (0.425 mm)
Fine Sand	No. 40 (0.425 mm) to No. 200 (0.075 mm)
Silt and Clay	Smaller than No. 200 (0.075 mm)

(3) Estimated Percentage		Moisture Content
<u>Percentage by Weight</u>	<u>Modifier</u>	Dry - Absence of moisture, dusty, dry to the touch
<5	Trace	Slightly Moist - Perceptible moisture
5 to 15	Slightly (sandy, silty, clayey, gravelly)	Moist - Damp but no visible water
15 to 30	Sandy, silty, clayey, gravelly)	Very Moist - Water visible but not free draining
30 to 49	Very (sandy, silty, clayey, gravelly)	Wet - Visible free water, usually from below water table

Symbols	
Sampler Type	Blows/6" or portion of 6"
2.0" OD Split-Spoon Sampler (SPT)	10 16 20
Bulk sample	Continuous Push
Grab Sample	Non-Standard Sampler
	3.0" OD Thin-Wall Tube Sampler (including Shelby tube)
	Portion not recovered

(1) Percentage by dry weight	(5) Combined USCS symbols used for fines between 5% and 15% as estimated in General Accordance with Standard Practice for Description and Identification of Soils (ASTM D-2488)
(2) (SPT) Standard Penetration Test (ASTM D-1586)	
(3) In General Accordance with Standard Practice for Description and Identification of Soils (ASTM D-2488)	
(4) Depth of groundwater	ATD = At time of drilling Static water level (date)
	BGS = below ground surface

Classifications of soils in this report are based on visual field and/or laboratory observations, which include density/consistency, moisture condition, grain size, and plasticity estimates and should not be construed to imply field or laboratory testing unless presented herein. Visual-manual and/or laboratory classification methods of ASTM D-2487 and D-2488 were used as an identification guide for the Unified Soil Classification System.

	<h1>Exploration Log Key</h1>	DATE:	PROJECT NO.
		DESIGNED BY:	
		DRAWN BY:	FIGURE NO.
		REVISED BY:	A-1



# Boring Log

Project Number  
110207

Boring Number  
AP-MW-01

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 15.84

Location: Everett, WA

Driller/Method: Cascade Drilling / Direct Push Probe

Depth to Water (ft BGS) \_\_\_\_\_

Sampling Method: Grab

Start/Finish Date 6/29/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
15	8" Flush-mount monument and thermos cap Concrete surface seal 0' to 2'					Asphalt		
		CC-1	AP-MW-1-1-2	0		Moist, brown, iron-oxide-gray mottled SAND (SP); trace fine gravel, fine sand, scattered organics-seashells		
				0				
	3/8" Hydrated bentonite chips 2' to 3' 10/20 pre-pack Silica sand filter pack 3' to 14'			0		Moist, dark gray SAND (SP); fine sand		
				0				
5				0		Moist, brown SAND (SP); fine sand		5
			AP-MW-1-6-7	0				
10				0		Wet, dark gray, silty SAND (SM); fine sand, rapid dilatancy, scattered organics-seashells		
	2" Diameter PVC pre-packed .001 slot screen 4' to 14'	CC-2		0				
				0		Numerous organics-seashells- 8' to 8.5'		
				0		Wet, dark gray SAND (SP); trace gravel, fine to medium sand		
10				0				10
5				0				
		CC-3		0				
				0				
				0				
	Threaded cap			0				
	Slough			0				
15				0				
				0			Bottom of boring at 15' BGS	15
0								

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **AET**

Approved by: **SJG**

Figure No. **A- 2**



# Boring Log

Project Number  
110207

Boring Number  
AP-MW-01R

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 18.31

Location: Everett, WA

Driller/Method: Holt / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core 3"

Start/Finish Date 11/11/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	8" Flush-mount monument and thermos cap Concrete surface seal 0' to 1'						Recycled demo debris	
15	3/8" Hydrated bentonite chips 1' to 7'	CC-1					No recovery	5
10		CC-2	AP-MW-1R-7 AP-MW-501-7	0 0 0			Slightly moist, dark gray, slightly sandy, SILT (ML) Becomes dark brown, sandy; fine to coarse, subangular sand	
10	10/20 pre-pack Silica sand filter pack 7' to 18.25'						Dry, light gray, very silty, GRAVEL (GM); fine, subrounded gravel Slightly moist, dark brown, sandy, SILT (ML); fine sand with shell fragments	
10			AP-MW-1R-9 AP-MW-501-9	0 0			Moist, gray, silty, SAND (SM); fine to medium sand	
10							No recovery	10
10							Moist, gray, silty, SAND (SM); fine to medium sand Becomes brown to dark brown, gravelly; fine, subrounded gravel	
10							Wet, gray, sandy, SILT (ML); fine sand	
5		CC-3	AP-MW-1R-13 AP-MW-501-13	0 0			Wet, gray, SAND (SP); medium, subangular sand	
15	2" Diameter PVC pre-packed 10-slot screen 8' to 18'						Wet, gray, slightly sandy, SILT (ML); fine sand	15
0	Threaded cap						Wet, gray SAND (SP)	
20	Slough 18.25' to 20'						No recovery	
20							Bottom of boring at 20 feet	20

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **AHP**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 3**



# Boring Log

Project Number  
110207

Boring Number  
BA-B01

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/13/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
						Recycled demo debris		
		CC-01				No recovery		
5	Hydrated bentonite chip backfill		BA-B1-5			Medium stiff, grading from dry to moist, brown, slightly gravelly, silty SAND (SM); fine to coarse sand		5
			BA-B1-6.5			Woody debris		
		CC-02				Medium stiff, wet, gray, slightly sandy SILT (ML)		
	▽ 11/13/2013		BA-B1-8			No recovery		
10						Medium stiff, wet, gray, slightly sandy SILT (ML)		10
		CC-03	BA-B1-11			Medium dense, wet, gray, silty SAND (SM)		
						No recovery		
15						Bottom of boring 15 feet Note: Density and consistency was estimated based on sample observations.		15

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- ▼ Static Water Level
- ▽ Water Level (ATD)

Logged by: **AHP**

Approved by: **SJG**

Figure No. **A- 4**



# Boring Log

Project Number  
110207

Boring Number  
BA-B02

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/13/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
						Recycled demo debris		
		CC-01				No recovery		
5	Hydrated bentonite chip backfill							5
			BA-B2-6	0		Medium dense, slightly moist, grayish brown, silty SAND (SM); very fine sand		
			BA-B2-7	0		Medium stiff, slightly moist, brown, silty SAND (SM); trace very fine gravel, fine to medium sand		
		CC-02	BA-B2-8	0		No recovery		
	▽ 11/13/2013							
10						Medium stiff, slightly moist, brown, gravelly sandy SILT (SM)		10
			BA-B2-12	0		Medium stiff, moist, brown, SILT (ML)		
				0		Medium stiff, wet, gray SILT (ML)		
		CC-03		0		Medium dense, wet, gray, SAND (SP); medium subangular sand		
				0		No recovery		
15						Bottom of boring 15 feet Note: Density and consistency was estimated based on sample observations.		15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AHP

○ No Recovery

▽ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 5



# Boring Log

Project Number  
110207

Boring Number  
BA-B03

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/20/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
						Recycled demo debris		
		CC-01				No recovery		
5	Hydrated bentonite chip backfill			0		Medium dense, moist, brown SAND (SW); fine to coarse subangular sand		5
			BA-B3-6	0				
			BA-B3-7	0		Medium dense, moist, brown silty SAND (SM); fine sand Becomes wet, gray		
	▽ 11/20/2013	CC-02		0				
			BA-B3-9	0		No recovery		
10						Slough		10
						Medium dense, wet, gray, silty SAND (SM); fine sand		
		CC-03				No recovery		
15						Bottom of boring 15 feet Note: Density and consistency was estimated based on sample observations.		15

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- ▼ Static Water Level
- ▽ Water Level (ATD)

Logged by: **AHP**

Approved by: **SJG**

Figure No. **A- 6**



# Boring Log

Project Number  
110207

Boring Number  
BA-MW-01

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 16.25

Location: Everett, WA

Driller/Method: Holt / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core 3"

Start/Finish Date 10/29/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
15	8" Flush-mount monument and thermos cap Concrete surface seal 0' to 1'					Recycled demo debris and SILT (FILL)		
		CC-1		0		Slightly moist, brown, slightly gravelly, SILT (ML); fine, subrounded gravel, brick fragments		
	3/8" Hydrated bentonite chips 1' to 5'		BA-MW-1-3	0		Becomes dark brown, gravelly		
				0		Dry, light gray, GRAVEL (GW); fine to coarse, angular to subangular gravel		
				0		Slightly moist, brown, slightly gravelly, SAND (SP); medium to coarse sand, fine, subrounded gravel		
				0		No recovery		
5								5
			BA-MW-1-6	0		Moist, brown, slightly gravelly, SAND (SP); medium sand, fine, subrounded, gravel, bottom 6 inches wet		
10		CC-2		0				
	▽ 10/29/2013		BA-MW-1-8.5	0		No recovery		
				0				
10	10/20 pre-pack Silica sand filter pack 5' to 16.25'							10
			BA-MW-1-12	0		Wet, gray, slightly gravelly, SAND (SP); fine to medium sand, fine, subangular to subrounded, gravel, trace silt		
5		CC-3		0				
				0				
				0				
				0				
15	2" Diameter PVC pre-packed 10-slot screen 6' to 16'							15
	Threaded cap			0		No recovery		
				0		Wet, dark gray, slightly gravelly, silty, SAND (SM); fine to medium sand, fine, subrounded, gravel, trace shell fragments		
		CC-4		0				
				0				
				0				
				0				
20	Slough 16.25' to 20'							20
						No recovery		
						Bottom of boring at 20 feet		

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: JLO

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 7





# Boring Log

Project Number  
110207

Boring Number  
BA-MW-02

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 17.69

Location: Everett, WA

Driller/Method: Holt / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core 3"

Start/Finish Date 10/29/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	8" Flush-mount monument and thermos cap Concrete surface seal 0' to 1'					Recycled demo debris		
15	3/8" Hydrated bentonite chips 1' to 5'	CC-1	BA-MW-2-2			Slightly moist, brown, gravelly, sandy, SILT (ML)		
5						No recovery		
10	10/29/2013	CC-2	BA-MW-2-7 BA-MW-2-8			Slightly moist, light gray, gravelly, SILT (ML) becomes brown to gray, sandy; trace gravel, fine sand Becomes wet		5
10	10/20 pre-pack Silica sand filter pack 5' to 16.25'					No recovery		
5		CC-3	BA-MW-2-12			Wet, gray, gravelly, very sandy, SILT (ML); fine to coarse sand		10
15	2" Diameter PVC pre-packed 10-slot screen 6' to 16' Threaded cap					No recovery		
0	Slough 16.25' to 20'	CC-4				Wet, gray, SAND (SP); medium to coarse sand		15
						Wet, gray, silty SAND (SM); fine to medium, subrounded sand		
						Wet, gray, SILT (ML)		
						Wet, gray, silty SAND (SM); fine to medium sand		
20						No recovery		
						Bottom of boring		20

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **AHP**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 8**



# Boring Log

Project Number  
110207

Boring Number  
BA-MW-03

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 16.07

Location: Everett, WA

Driller/Method: Holt / Direct Push Probe

Depth to Water (ft BGS) \_\_\_\_\_

Sampling Method: Continuous Core 3"

Start/Finish Date \_\_\_\_\_

10/29/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
15	8" Flush-mount monument and thermos cap Concrete surface seal 0' to 1'						Recycled demo debris	
		CC-1	BA-MW-3-2.5	0		Brick		
	3/8" Hydrated bentonite chips 1' to 5'			0		Slightly moist, light brown, slightly silty SAND (SP-SM); fine to medium sand		
5						No Recovery		
10		CC-2	BA-MW-3-6	0		Slightly moist, light brown, slightly gravelly, silty, SAND (SM); fine to coarse, subangular sand		5
	10/29/2013			0		Becomes moist		
			BA-MW-3-8	0		Wood chips		
				0		Wet, gray and light brown, sandy, SILT (ML); medium, subangular sand		
				0		No Recovery		
10	10/20 pre-pack Silica sand filter pack 5' to 16.25'					Wet, gray, SILT (ML); trace sand		10
5		CC-3	BA-MW-3-12	0		Wet, gray, silty, sandy GRAVEL (GM); medium to coarse, subrounded gravel		
				0		Wet, gray, sandy, SILT (ML); fine sand		
				0		becomes trace sand		
				0		Wet, gray, silty, SAND (SM); medum, subrounded sand		
15	2" Diameter PVC pre-packed 10-slot screen 6' to 16'					No Recovery		15
0	Threaded cap					Wet, gray, silty, SAND (SM); fine to medium sand		
		CC-4				Wet, gray, sandy, SILT (ML); fine sand		
	Slough 16.25' to 20'					No Recovery		
20						Bottom of boring at 20 feet		20

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **AHP**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 9**



# Boring Log

Project Number  
110207

Boring Number  
BA-MW-04

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 16.94

Location: Everett, WA

Driller/Method: Holt / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core 3"

Start/Finish Date 10/28/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
15	8" Flush-mount monument and thermos cap Concrete surface seal 0' to 1' 3/8" Hydrated bentonite chips 1' to 3'	CC-1					Recycled demo debris	
			BA-MW-4-3.5	0			Slightly moist, light brown and brown, SAND (SP); medium to coarse, subrounded sand	
							No Recovery	
5			BA-MW-4-5.5 BA-MW-4-6	0			Slightly moist, brown, SAND (SP); medium to coarse sand Slightly moist, gray and brown, sandy, SILT (ML); fine sand Becomes trace sand	5
10	10/20 pre-pack Silica sand filter pack 3' to 14.25'	CC-2		0	0		Becomes sandy; fine to medium sand	
				0	0		No Recovery	
10	2" Diameter PVC pre-packed 10-slot screen 4' to 14'			0			Wet, gray, slightly sandy, SILT (ML); fine sand, hydrogen sulfide-like odor	10
5		CC-3	BA-MW-4-10	0	0		Wet, gray, SAND (SP); medium to coarse, subrounded sand	
				0	0		No Recovery	
15	Threaded cap			0			Wet, gray, SAND (SP); medium to coarse, subrounded sand	15
				0	0		Wet, gray, silty, SAND (SM); fine sand	
		CC-4		0	0		No Recovery	
20	Slough 14.25' to 20'						Bottom of boring at 20 feet	20

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **AHP**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 10**



# Boring Log

Project Number  
110207

Boring Number  
BA-MW-05

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 14.47

Location: Everett, WA

Driller/Method: Holt / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core 3"

Start/Finish Date 10/25/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	8" Flush-mount monument and thermos cap					Concrete rubble (FILL)		
0 to 1'	Concrete surface seal					Crushed crystalline rock		
1' to 3'	3/8" Hydrated bentonite chips	CC-1	BA-MW-5-2	0		Wood chips		
				0		Slightly moist, light gray, silty, SAND (SM); fine sand		
				0		No Recovery		
5				0		Slightly moist, light gray, silty, SAND (SM); fine sand		5
	10/25/2013			0		Becomes wet		
	10/20 pre-pack Silica sand filter pack 3' to 14.25'	CC-2		0		Moist, mottled black and white, SAND (SP); coarse, subrounded sand, trace gravel		
				0		No Recovery		
5						Moist, brown and gray, sandy, gravelly, SILT (SM); with woody debris		10
	2" Diameter PVC pre-packed 10-slot screen 4' to 14'	CC-3				Moist, dark gray, silty, sandy GRAVEL (GM); fine to coarse sand, fine to coarse gravel		
	Threaded cap					No Recovery		15
15						Moist, black and gray, sandy, GRAVEL (GW); fine to coarse gravel		
		CC-4				Moist, dark gray, gravelly, SAND (SP); fine to medium sand		
	Slough 14.25' to 20'					No Recovery		
20						Bottom of boring at 20 feet		20

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **AHP**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 11**



# Boring Log

Project Number  
110207

Boring Number  
BA-MW-06

Sheet  
1 of 1

Project Name: **Kimberly Clark**

Ground Surface Elev. **11.64**

Location: **Everett, WA**

Driller/Method: **Holt / Direct Push Probe**

Depth to Water (ft BGS)

Sampling Method: **Continuous Core 3"**

Start/Finish Date **10/25/2013**

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
10	8" Flush-mount monument and thermos cap Concrete surface seal 0' to 1' 3/8" Hydrated bentonite chips 1' to 2'	CC-1	BA-MW-6-1.5, BA-MW-10-1.5	0		Concrete rubble (FILL)		
				0		Slightly moist, gray-brown, silty, SAND (SM); fine sand, trace medium to coarse sand		
				0		becomes gravelly		
5	10/25/2013					Very moist, dark gray, slightly sandy, SILT (ML); fine sand No Recovery		5
				0		Very moist, dark gray, silty, SAND (SM); fine to coarse sand, trace gravel		
5	10/20 pre-pack Silica sand filter pack 2' to 13.25'	CC-2		0		Very moist, white and dark gray, slightly silty, gravelly SAND (SW-SM); fine to coarse sand		
				0		Very moist, dark gray, slightly silty, slightly gravelly, SAND (SP-SM); fine to medium sand, fine, subangular gravel		
						No Recovery		
10	2" Diameter PVC pre-packed 10-slot screen 3' to 13'	CC-3		0		Very moist, white and dark gray, slightly silty, gravelly, SAND (SW-SM); fine to coarse sand, fine, subrounded to subangular gravel		10
0				0				
	Threaded cap			0				
15	Slough 13.25' to 20'			0				15
							Bottom of boring at 15 feet	
-5								

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **JLO**

No Recovery

Static Water Level

Approved by: **SJG**

Continuous Core

Water Level (ATD)

Figure No. **A- 12**



# Boring Log

Project Number  
110207

Boring Number  
BA-MW-07

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 13.24

Location: Everett, WA

Driller/Method: Holt / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core 3"

Start/Finish Date 10/25/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	8" Flush-mount monument and thermos cap Concrete surface seal 0' to 1'					Concrete rubble (FILL)		
0			BA-MW-7-1.5	0		Moist, brown, slightly silty, gravelly, SAND (SW-SM); fine to coarse sand, wood chips		
0				0		Moist, brown, slightly gravelly, SAND (SP); medium sand, trace fine and coarse sand		
10	3/8" Hydrated bentonite chips 1' to 4'	CC-1				No Recovery		
5						Very moist, brown, slightly gravelly, SAND (SP); medium sand, trace fine and coarse sand		5
5				0		Wet, gray and brown, GRAVEL (GP); coarse, subangular gravel		
5	10/25/2013	CC-2				Wet, dark brown, slightly sandy wood waste (FILL); fine sand, decomposing wood waste		
5				0		No Recovery		
10	10/20 pre-pack Silica sand filter pack 4' to 15.25'	CC-3				Wet, dark gray, slightly sandy, silty, GRAVEL (GM); coarse gravel, medium to coarse, subrounded sand		10
10			BA-MW-7-12.5	0		Wet, dark gray, slightly sandy, very gravelly, SILT (ML); fine to medium sand, coarse, subrounded gravel, sheen on bottom 0.25", petroleum odor		
0	2" Diameter PVC pre-packed 10-slot screen 5' to 15'			0		No Recovery		
15	Threaded cap	CC-4				Wet, dark gray, slightly gravelly, silty, SAND (SM); coarse, subrounded gravel		15
15			BA-MW-7-15	0		Wet, dark gray, sandy, SILT (ML); fine sand, wood chips, micaceous		
5				0		No Recovery		
20	Slough 15.25' to 20'					Bottom of boring at 20 feet		20

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **JLO**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 13**



### Boring Log

Project Number  
110207

Boring Number  
Boiler-B-01

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Aspect / Hand Auger Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Grab Start/Finish Date 7/6/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
1	Backfilled boring with same material that was pulled from hole.		Boiler-B-1-1-2-070512				<b>ASPHALT</b> <b>FILL</b> Moist, brown and dark brown, gravelly SAND (SW); subrounded gravel and fine to coarse sand.	1
2							Bottom of boring at 2 ft BGS.	2
3								3
4								4
5								5
6								6
7								7
8								8
9								9
10								10
11								11
12								12
13								13
14								14
15								15
16								16
17								17
18								18
19								19
20								20
21								21
22								22
23								23
24								24
25								25
26								26
27								27
28								28
29								29

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: GL

No Recovery

Static Water Level

Approved by: SJG

Grab Sample

Water Level (ATD)

Figure No. A- 14



# Boring Log

Project Number  
110207

Boring Number  
Boiler-B-02

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Aspect / Hand Auger Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Grab Start/Finish Date 7/6/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
1	Backfilled boring with same material that was pulled from hole.		Boiler-B-2-1-2-070512				<b>ASPHALT</b> <b>FILL</b> Moist, brown and dark brown, gravelly SAND (SW); subrounded gravel and fine to coarse sand.	1
2							Bottom of boring at 2 ft BGS.	2
3								3
4								4
5								5
6								6
7								7
8								8
9								9
10								10
11								11
12								12
13								13
14								14
15								15
16								16
17								17
18								18
19								19
20								20
21								21
22								22
23								23
24								24
25								25
26								26
27								27
28								28
29								29

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: GL

No Recovery

Static Water Level

Approved by: SJG

Grab Sample

Water Level (ATD)

Figure No. A- 15





# Boring Log

Project Number  
110207

Boring Number  
Boiler-B-03

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Aspect / Hand Auger Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Grab Start/Finish Date 7/6/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
1	Backfilled boring with same material that was pulled from hole.		Boiler-B-3-1-2-070512				<b>ASPHALT</b> <b>FILL</b> Moist, brown and dark brown, gravelly SAND (SW); subrounded gravel and fine to coarse sand; sticky with apparent petroleum-based product.	1
2							Bottom of boring at 2 ft BGS.	2
3								3
4								4
5								5
6								6
7								7
8								8
9								9
10								10
11								11
12								12
13								13
14								14
15								15
16								16
17								17
18								18
19								19
20								20
21								21
22								22
23								23
24								24
25								25
26								26
27								27
28								28
29								29

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: GL

No Recovery

Static Water Level

Approved by: SJG

Grab Sample

Water Level (ATD)

Figure No. A- 16



# Boring Log

Project Number  
110207

Boring Number  
Boiler-B-03A

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous core Start/Finish Date 9/5/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)	
	3/8" hydrated bentonite chips	CC-1	BOILER-B-3A-1-2	0	0	Concrete			
						Moist, brown black, silty, gravelly SAND (SM); fine sand			
							Crushed rock		
							No recovery		
5			CC-2	BOILER-B-3A-4-5	0	0	Moist, brown to gray, slightly gravelly SAND (SP); fine to medium sand		
							No recovery	5	
			CC-3	BOILER-B-3A-6.5-7.5	0	0	Wet, brown to gray, slightly gravelly SAND (SP); fine to medium sand, trace silt		
10									
							Bottom of boring at 10' BGS	10	
15								15	
20								20	
25								25	

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MAR**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 17**



# Boring Log

Project Number  
110207

Boring Number  
Boiler-B-03B

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous core Start/Finish Date 9/5/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
5	3/8" hydrated bentonite chips	CC-1	BOILER-B-3B-1-2	0 0 0		Concrete		5
						Moist, dark brown, gravelly, very sandy SILT (ML)		
		CC-2	BOILER-B-3B-4-5	0 0 0		Iron staining and fill debris 1.5' to 2'		
						Moist, brown SAND (SP); fine sand		
		CC-3				No recovery		
						Moist, brown SAND (SP); fine sand		
						Wood and concrete		
						No recovery		
						Refusal at 6' BGS		
10								10
15								15
20								20
25								25

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MAR**

No Recovery

Static Water Level

Approved by: **SJG**

Continuous Core

Water Level (ATD)

Figure No. **A- 18**



### Boring Log

Project Number  
110207

Boring Number  
Boiler-B-04

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Aspect / Hand Auger Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Grab Start/Finish Date 7/6/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
1	Backfilled boring with same material that was pulled from hole.	[Symbol]	Boiler-B-4-1-1.5-070612			[Symbol]	<b>ASPHALT</b>	1
2							<b>FILL</b>	2
3							Moist, brown and dark brown, gravelly SAND (SP); sand and concrete rubble; soil concrete slab at 1.5 ft BGS.	3
4							Hit refusal on concrete slab at 1.5 ft BGS (bottom of boring).	4
5								5
6								6
7								7
8								8
9								9
10								10
11								11
12								12
13								13
14								14
15								15
16								16
17								17
18								18
19								19
20								20
21								21
22								22
23								23
24								24
25								25
26								26
27								27
28								28
29								29

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: GL

No Recovery

Static Water Level

Approved by: SJG

Grab Sample

Water Level (ATD)

Figure No. A- 19



### Boring Log

Project Number  
110207

Boring Number  
Boiler-B-05

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Aspect / Hand Auger Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Grab Start/Finish Date 7/6/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
1	Backfilled boring with same material that was pulled from hole.		Boiler-B-5-1-1.5-070612				<b>ASPHALT</b>	1
2							<b>FILL</b>	2
3							Moist, brown and dark brown, gravelly SAND (SP); sand and concrete rubble; soil concrete slab at 1.5 ft BGS.	3
4							Hit refusal on concrete slab at 1.5 ft BGS (bottom of boring).	4
5								5
6								6
7								7
8								8
9								9
10								10
11								11
12								12
13								13
14								14
15								15
16								16
17								17
18								18
19								19
20								20
21								21
22								22
23								23
24								24
25								25
26								26
27								27
28								28
29								29

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: GL

No Recovery

Static Water Level

Approved by: SJG

Grab Sample

Water Level (ATD)

Figure No. A- 20



# Boring Log

Project Number  
110207

Boring Number  
Boiler-HA-02A

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. \_\_\_\_\_

Location: Everett, WA

Driller/Method: Aspect / Hand Auger

Depth to Water (ft BGS) \_\_\_\_\_

Sampling Method: Grab

Start/Finish Date 9/5/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	Backfilled with excavated material		Boiler-HA-B2A-0-1				Asphalt	
			Boiler-HA-B2A-2-3				Moist, brown, gravelly SAND (SP); poorly graded fine to medium sand, no odor	
5							Bottom of boring at 3' BGS	5
10								10
15								15
20								20
25								25

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **AET/ERP**

No Recovery

Static Water Level

Approved by: **SJG**

Grab Sample

Water Level (ATD)

Figure No. **A- 21**



### Boring Log

Project Number  
110207

Boring Number  
Boiler-HA-02B

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Aspect / Hand Auger Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Grab Start/Finish Date 9/5/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	Backfilled with excavated material		Boiler-HA-B2B-0-1				Asphalt	
							Slightly moist, brown to gray, gravelly SAND (SP)	
							Refusal at 1' BGS	
5								5
10								10
15								15
20								20
25								25

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Grab Sample

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **AET/ERP**

Approved by: **SJG**

Figure No. **A- 22**



### Boring Log

Project Number  
110207

Boring Number  
Boiler-HA-02C

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Aspect / Hand Auger Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Grab Start/Finish Date 9/5/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	Backfilled with excavated material		Boiler-HA-B2C-0-1			Asphalt		
			Boiler-HA-B2C-2-3			Moist, brown, gravelly SAND (SP); subround gravel, fine to coarse sand		
5								5
10								10
15								15
20								20
25								25
							Bottom of boring at 3' BGS	

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Grab Sample

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **AET/ERP**

Approved by: **SJG**

Figure No. **A- 23**





# Boring Log

Project Number  
110207

Boring Number  
Boiler-MW-01

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. \_\_\_\_\_

Location: Everett, WA

Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access

Depth to Water (ft BGS) \_\_\_\_\_

Sampling Method: Continuous Core

Start/Finish Date 9/5/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	8" flush-mount monument and thermos cap Concrete surface seal 0' to 2'					Concrete		
	3/8" hydrated bentonite chips 2' to 4'	CC-1		29.7		Moist, dark gray, sandy, gravelly SILT (ML); numerous organics; petroleum-like odor		
	10/20 silica sand filter pack 4' to 15'			19.2		Moist, dark gray SAND (SP); fine sand; slight petroleum-like odor		
5	2" diameter PVC pre-packed .001 slot screen 5' to 15'	CC-2		1.3		No recovery		5
				0.8		Moist, dark gray SAND (SP); medium sand, faint petroleum-like odor		
				0.9				
				0.9		No recovery		
10		BOILER-MW-01-10-11		0.4		Wet, gray SAND (SW); fine to coarse sand		10
		CC-3		0.7		Visible separate phase product and strong petroleum-like odor at 12'		
				24.4				
				36.4				
				0.7		No recovery		
15	Threaded cap			0.4		Wet, gray SAND (SP); medium sand, trace coarse sand; numerous seashell fragments		15
	Slough and bentonite	CC-4		0.2				
				0.2				
				0.2				
20				0.3		Bottom of boring at 20' BGS		20
25								25

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **AET**

Approved by: **SJG**

Figure No. **A- 24**



# Boring Log

Project Number  
110207

Boring Number  
CMS-B04

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/20/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
						Recycled demo debris		
				0				
				0		Moist, brown, slightly silty, slightly gravelly SAND (SP-SM); fine sand		
		CC-01		0		No recovery		
			CMS-B4-3					
	▽ 11/20/2013							
5	Hydrated bentonite chip backfill							5
				0		Wet, gray, slightly silty SAND (SP-SM); shells, fine to medium sand		
		CC-02		0		Wet, brown gray, slightly gravelly SAND (SP); medium to coarse sand		
			CMS-B4-5					
				0		No recovery		
10				0		Wet, dark gray, SAND (SP); fine sand		10
		CC-03		0		Wet, gray SAND (SP); medium to coarse sand		
			CMS-B4-8			No recovery		
15				0		Bottom of boring 15 feet Note: Density and consistency was estimated based on sample observations.		15

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- ▽ Static Water Level
- ▽ Water Level (ATD)

Logged by: AET

Approved by: SJG

Figure No. A- 25



# Boring Log

Project Number  
110207

Boring Number  
CMS-B05

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/13/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
						Recycled demo debris		
			CMS-B5-1	0				
				0				
				0			Stiff, wet, brown, slightly sandy SILT (ML)	
		CC-01	CMS-B5-2.5				No recovery	
	▽ 11/13/2013							
5	Hydrated bentonite chip backfill							5
				0			Stiff, wet, brown, slightly sandy SILT (ML)	
				0			Pea gravel	
				0			Medium stiff, moist, gray, slightly sandy SILT (ML); fine sand	
		CC-02	CMS-B5-7				No recovery	
				0				
				0				
10							Loose, wet, gray, SAND (SP); medium sand	10
							Loose, wet, gray, SAND (SP); medium to coarse subangular sand	
		CC-03					Medium stiff, wet, gray SILT (ML)	
							No recovery	
15							Bottom of boring 15 feet Note: Density and consistency was estimated based on sample observations.	15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **AHP**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 26**



# Boring Log

Project Number  
110207

Boring Number  
CMS-B06

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/20/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
1			CMS-B6-2 CMS-B6-2.5 CMS-B6-7	0 0 0 0 0 0	0 0 0 0 0 0		Recycled demo debris	1
2							Very moist to wet, dark gray SAND (SP); fine to medium sand, shell fragments	2
3								3
4							No recovery	4
5							Wet, dark gray, slightly gravelly SAND (SP); medium to coarse sand	5
6								6
7								7
8							Woody debris	8
9								9
10							Bottom of boring 10 feet Note: Density and consistency was estimated based on sample observations.	10

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET

No Recovery

Static Water Level

Approved by: SJG

Continuous Core

Water Level (ATD)

Figure No. A- 27



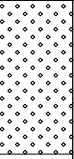




# Boring Log

Project Number  
110207

Boring Number  
CMS-B-1

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Aspect / Hand Auger Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Grab Start/Finish Date 7/6/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
1	 Backfilled with material that was pulled from hole.		CMS-1-0-1-070612				<b>CONCRETE</b>	1
2			CMS-1-2-3-070612				<b>FILL</b> Moist, dark brown and gray, gravelly SAND (SW); subrounded gravel and fine to coarse sand. Wet at 2 ft BGS	2
3							Bottom of boring at 3 ft BGS.	3
4								4
5								5
6								6
7								7
8								8
9								9
10								10
11								11
12								12
13								13
14								14
15								15
16								16
17								17
18								18
19								19
20								20
21								21
22								22
23								23
24								24
25								25
26								26
27								27
28								28
29								29

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **GL**

No Recovery

 Static Water Level

Approved by: **SJG**

Grab Sample


 Water Level (ATD)

Figure No. **A- 28**



# Boring Log

Project Number  
110207

Boring Number  
CMS-B-2

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Aspect / Hand Auger Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Grab Start/Finish Date 7/6/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
1	Backfilled with the material that was pulled from the hole.		CMS-2-0-1-070612				<b>CONCRETE</b>	1
2			CMS-2-2-3-070612				<b>FILL</b> Moist, gray, gravelly SAND (SW); subrounded gravel and fine to coarse sand; trace silt.	2
3							Bottom of boring at 3 ft BGS.	3
4								4
5								5
6								6
7								7
8								8
9								9
10								10
11								11
12								12
13								13
14								14
15								15
16								16
17								17
18								18
19								19
20								20
21								21
22								22
23								23
24								24
25								25
26								26
27								27
28								28
29								29

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **GL**

No Recovery

Static Water Level

Approved by: **SJG**

Grab Sample

Water Level (ATD)

Figure No. **A- 29**



# Boring Log

Project Number  
110207

Boring Number  
CMS-B-3

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Aspect / Hand Auger Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Grab Start/Finish Date 7/6/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
1			CMS-3-0-1-070612				<b>CONCRETE</b>	1
2							<b>FILL</b> Moist, gray, gravelly, silty SAND (SM); subrounded gravel and fine to coarse sand.	2
3			CMS-3-2-3-070612				Bottom of boring at 3 ft BGS	3
4								4
5								5
6								6
7								7
8								8
9								9
10								10
11								11
12								12
13								13
14								14
15								15
16								16
17								17
18								18
19								19
20								20
21								21
22								22
23								23
24								24
25								25
26								26
27								27
28								28
29								29

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Grab Sample

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **GL**

Approved by: **SJG**

Figure No. **A- 30**



# Boring Log

Project Number  
110207

Boring Number  
CMS-MW-01

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 15.22

Location: Everett, WA

Driller/Method: Cascade Drilling / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core

Start/Finish Date 6/28/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
15	8" Flush-mount monument and thermos cap						No Recovery	15
14	Concrete surface seal 0' to 1'							14
13	3/8" Hydrated bentonite chips 1' to 1.5'	CC-1						13
12	10/20 pre-pack Silica sand filter pack 1.5' to 12.5'							12
11								11
10				0			Wet, dark gray, slightly silty SAND (SP-SM); fine sand	10
9	2" Diameter PVC pre-packed .001 slot screen 2.5' to 12.5'	CC-2		0			Wet, dark gray SAND (SP); trace gravel, fine to medium sand	9
8				0			Wet, dark gray, silty CLAY (CL)	8
7				0			Wet, dark gray, slightly gravelly SAND (SP); fine to medium sand, fine gravel	7
6				0				6
5				0				5
4				0				4
3				0				3
2	Threaded cap	CC-3		0.4			Wet, dark brown, organic SILT (OL); peat-like	2
1	Slough			0.1			Wet, dark brown, sandy organic SILT (OL); fine to medium sand	1
0							Bottom of boring at 15' BGS	0
-1								-1
-2								-2
-3								-3
-4								-4
-5								-5
-6								-6
-7								-7
-8								-8
-9								-9
-10								-10
-11								-11
-12								-12
-13								-13
-14								-14

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 31





# Boring Log

Project Number  
110207

Boring Number  
CMS-MW-01R

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 16.82

Location: Everett, WA

Driller/Method: Holt / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core 3"

Start/Finish Date 11/12/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
15	8" Flush-mount monument and thermos cap Concrete surface seal 0' to 1' 3/8" Hydrated bentonite chips 1' to 2'	CC-1	CMS-MW-1R-2.5			Recycled demo debris		
						Moist to wet, dark gray, slightly silty, SAND (SP-SM); trace gravel		
						No recovery		
5	▽ 11/12/2013			0		Wet, black, silty, SAND (SM); fine to medium sand		5
	20/40 pre-pack Silica sand filter pack 2' to 13.25'	CC-2	CMS-MW-1R-8.5	.1		Grades to wet, black, SAND (SP); fine to medium sand, trace silt		
10				1.2		Sheen and slight petroleum-like odor at 8 feet		
	2" Diameter PVC pre-packed 10-slot screen 3' to 13'	CC-3	CMS-MW-1R-10.5	.8		No recovery		
10				2.1		Wet, gray, SAND (SP); fine to medium sand, no odor, no sheen		10
				0		Wet, gray, clayey, SILT (ML)		
5				0		Wet, gray, SAND (SP); fine to medium sand, trace gravel, no odor, no sheen		
	Threaded cap			0		No recovery		
15	Slough			0		Bottom of boring at 15 feet		15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **AET**

○ No Recovery

▽ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 32**



# Boring Log

Project Number  
110207

Boring Number  
CMS-MW-02

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 17.69

Location: Everett, WA

Driller/Method: Holt / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core 3"

Start/Finish Date 10/30/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
15	8" Flush-mount monument and thermos cap Concrete surface seal 0' to 1' 3/8" Hydrated bentonite chips 1' to 2'						Recycled demo debris	
15		CC-1		0			Moist, brown, SAND (SP); fine sand	
				0			No recovery	
5	20/40 pre-pack Silica sand filter pack 2' to 13.25' ▽ 10/30/2013			0			Wet, gray, SAND (SP); fine sand, trace gravel	5
				0			Wet, gray, slightly gravelly, SAND (SW); fine to coarse sand, fine gravel	
10		CC-2		0			Wet, gray, SAND (SP); fine sand, numerous shell fragments	
	2" Diameter PVC pre-packed 10-slot screen 3' to 13'			0			becomes fine to medium sand	10
5		CC-3					Wood chips	
	Threaded cap						No recovery	
15	Slough 13.25' to 15'						Bottom of boring at 15 feet	15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET

○ No Recovery

▽ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 33



# Boring Log

Project Number  
110207

Boring Number  
CN-B01

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 12/5/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
							Recycled demo debris	
			CN-B1-1				Medium dense, slightly moist, brown, GRAVELLY SILTY SAND (SM); fine to medium gravel, fine to very coarse sand	
							Dense, dry, white, SILTY GRAVEL (GM); fine gravel, crushed rock	
		CC-01					Medium dense, slightly moist, brown, gravelly, silty, SAND (SM); fine to medium gravel, fine to coarse sand	
							No recovery	
5	Hydrated bentonite chip backfill							
	▽ 12/5/2013		CN-B1-6				Dense, wet, gray, silty, gravelly SAND (SM); fine to coarse sand, fine gravel	5
		CC-02					trace gravel, shell fragments	
							No recovery	
10							Dense, wet, gray, silty SAND (SM); fine to coarse sand, shell fragments	10
		CC-03	CN-B1-10				Stiff, black and brown organic SILT (OL) and woody debris	
							No recovery	
15							Bottom of boring 15 feet Note: Density and consistency was estimated based on sample observations.	15

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **AHP**

Approved by: **SJG**

Figure No. **A- 34**



# Boring Log

Project Number  
110207

Boring Number  
CN-B02

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 12/5/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
							Recycled demo debris	
				0			Stiff, slightly moist, gray, silty SAND (SM); fine sand, with frequent, thick, dense, coarse sandy GRAVEL (GP) beds	
				0			Stiff, slightly moist, gray, sandy SILT (ML); fine sand	
		CC-01		0			No recovery	
5	▽ 12/5/2013							5
	Hydrated bentonite chip backfill							
				0			Stiff, slightly moist, gray, sandy SILT (ML); fine sand	
				0			Wood waste and organic SILT (OL); petroleum sheen	
				0			Medium dense, wet, dark gray, silty, gravelly SAND (SM); fine to coarse sand; petroleum sheen	
				0			Organic SILT (OL); with woody debris	
		CC-02		0			No recovery	
10				0			Loose, wet, gray, silty, gravelly SAND (SM); fine to coarse sand	10
				0			Wood	
				0			No recovery	
		CC-03		0				
15				0			Wood	15
				0			Medium dense, wet, gray SAND (SW); fine to coarse sand	
				0			No recovery	
		CC-04						
20							Bottom of boring 20 feet Note: Density and consistency was estimated based on sample observations.	20

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **AHP**

Approved by: **SJG**

Figure No. **A- 35**



# Boring Log

Project Number  
110207

Boring Number  
CN-B03

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 12/4/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
						Asphalt pavement		
				0		Loose, slightly moist, brown/tan/gray, gravelly, silty SAND (SM); fine to coarse sand		
				0				
				0				
				0				
		CC-01	CN-B3-3	0		Medium dense, very moist, gray, slightly gravelly SAND (SW); fine to coarse sand, fine to coarse gravel		
				0		Stiff, moist, gray SILT (ML)		
5	▽ 12/4/2013					No recovery		5
			CN-B3-5.5	0		Stiff, wet, gray SILT (ML)		
			CN-B3-6	0		Medium dense, wet, gray SAND (SW); fine to coarse subangular sand		
				0		Medium stiff, wet, black/gray/red organic SILT (OL) and woody debris		
	Hydrated bentonite chip backfill	CC-02		0				
				0				
				0				
				0				
10						No recovery		10
						Woody debris		
		CC-03				No recovery		
15						Bottom of boring 15 feet Note: Density and consistency was estimated based on sample observations.		15

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **AHP**

Approved by: **SJG**

Figure No. **A- 36**



# Boring Log

Project Number  
110207

Boring Number  
CN-B04

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/22/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
1		CC-01	CN-B4-2	0	0	Recycled demo debris	1	
2						Moist, brown, gravelly SAND (SP); fine to medium sand, fine gravel	2	
3		No recovery				3		
4		No recovery				4		
5		Wet, brown, sandy GRAVEL (GP); trace silt, fine sand				5		
6		Wet, gray, sandy SILT (ML); fine sand				6		
7		Wet, gray, SAND (SP); medium sand Wood at 9'				7		
8		No recovery				8		
9		No recovery				9		
10		Bottom of boring 10 feet Note: Density and consistency was estimated based on sample observations.				10		

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 37



# Boring Log

Project Number  
110207

Boring Number  
CN-B05

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/22/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)						
1							Recycled demo debris	1						
2													2	
3														3
4													No recovery	4
5							Hydrated bentonite chip backfill						Moist, brown gray, gravelly SAND (SP); medium sand	5
6										0				6
7							▽ 11/22/2013						Wood	7
8										0	0			8
9													No recovery	9
10													Woody debris with sand matrix	10
11													No recovery	11
12														12
13													Refusal 12.5 feet Note: Density and consistency was estimated based on sample observations.	13

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 38



# Boring Log

Project Number  
110207

Boring Number  
CN-B06

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 12/5/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
							Sandy, gravelly FILL	
							Stiff, slightly moist, gray sandy SILT (SM); fine sand	
							Wood	
			CN-B6-2				Stiff, wet, gray sandy SILT (SM); very fine sand	
		CC-01	CN-B6-3					
							No recovery	
5							Stiff, wet, gray sandy SILT (SM); very fine sand	5
							Medium sand	
							Medium dense, wet, gray, slightly silty SAND (SW-SM); fine to coarse sand, shell fragments	
			CN-B6-8				No recovery	
10							Medium dense, wet, gray, slightly silty SAND (SW-SM); fine to coarse sand, shell fragments	10
							Stiff, wet, gray SILT (ML)	
							Woody debris	
							No recovery	
15							Bottom of boring 15 feet Note: Density and consistency was estimated based on sample observations.	15

▽ 12/5/2013

Hydrated bentonite chip backfill

5

10

15

5

10

15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AHP

No Recovery

Static Water Level

Approved by: SJG

Continuous Core

Water Level (ATD)

Figure No. A- 39





### Boring Log

Project Number  
110207

Boring Number  
CN-B07

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 12/5/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
							Sandy, gravelly FILL	
							Stiff, slightly moist, gray sandy SILT (ML); fine sand	
		CC-01	CN-B7-2					
							No recovery	
5							Stiff, slightly moist, gray sandy SILT (ML); fine sand	5
	▽ 12/5/2013						Wet	
	Hydrated bentonite chip backfill	CC-02	CN-B7-6					
							No recovery	
10							Stiff, slightly moist, gray sandy SILT (ML); fine sand	10
		CC-03	CN-B7-12					
							Organic SILT (OL), and woody debris	
							Stiff, slightly moist, gray sandy SILT (ML); fine sand	
							No recovery	
15							Bottom of boring 15 feet Note: Density and consistency was estimated based on sample observations.	15

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **AHP**

Approved by: **SJG**

Figure No. **A- 40**



# Boring Log

Project Number  
110207

Boring Number  
CN-B08

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 12/4/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0						Asphalt pavement		
0						Medium stiff, slightly moist, brown, slightly sandy, gravelly SILT (ML); medium to coarse subangular gravel, trace fine sand		
0								
		CC-01	CN-B8-2			No recovery		
5	▽ 12/4/2013							5
	Hydrated bentonite chip backfill							
		CC-02	CN-B8-5			Medium stiff, moist to wet, gray, sandy SILT (ML); fine sand		
						Woody debris		
						No recovery		
10						Woody debris		10
		CC-03						
			CN-B8-14			Medium dense, wet, gray silty SAND (SM); fine to medium sand		
						Woody debris		
15						Bottom of boring 15 feet Note: Density and consistency was estimated based on sample observations.		15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AHP

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 41



# Boring Log

Project Number  
110207

Boring Number  
CN-B09

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/22/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
						Asphalt Pavement		
				0		Moist, gray, sandy GRAVEL (GP); medium to coarse sand, fine gravel		
				0		Moist, gray, silty SAND (SM); fine sand		
	▽ 11/22/2013	CC-01	CN-B9-2.5	0		Wet		
				0		Moist, gray, clayey SILT (ML); brick debris		
						No recovery		
5			CN-B9-5			Wet, gray, sandy silty GRAVEL (GM); with wood and brick debris		5
				0		Brick debris		
				0		Charcoal		
	Hydrated bentonite chip backfill	CC-02	CN-B9-8	0		Wood		
				0		Wet, gray SAND (SP); medium sand		
						No recovery		
10				0		Wet, gray SAND (SP); medium sand, trace gravel; H2S odor		10
				0		Wood		
		CC-03		0		No recovery		
15						Bottom of boring 15 feet Note: Density and consistency was estimated based on sample observations.		15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 42



# Boring Log

Project Number  
110207

Boring Number  
CN-B10

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 12/5/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
						Asphalt pavement		
						Dense, moist, brown, silty SAND (SM); coarse sand		
						Dense, very moist, gray, slightly silty, gravelly SAND (SP-SM); medium to very coarse sand, fine gravel		
		CC-01	CN-B10-2			No recovery		
5	▽ 12/5/2013					Dense, wet, brown gray, slightly silty SAND (SP-SM); fine to medium sand		5
						Dense, wet, gray, silty SAND (SM); fine to coarse sand		
	Hydrated bentonite chip backfill	CC-02	CN-B10-5			Woody debris		
						No recovery		
10						Loose to medium dense, wet, gray, silty, gravelly SAND (SM); fine to medium sand		10
						Woody debris		
						Stiff, wet, gray SILT (ML)		
						Woody debris		
		CC-03	CN-B10-10			Medium dense, wet, gray SAND (SW); fine to coarse sand		
15						Bottom of boring 15 feet Note: Density and consistency was estimated based on sample observations.		15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AHP

○ No Recovery

▽ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 43



# Boring Log

Project Number  
110207

Boring Number  
CN-B11

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 12/4/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	[Solid black bar]	CC-01	CN-B11-2	0	0	Asphalt pavement		0
0						Crushed concrete		0
0						Crushed asphalt		0
0	[Solid black bar]	CC-02	CN-B11-3.5	0	0	Medium dense, slightly moist, gray, silty, gravelly SAND (SM); fine to coarse gravel, fine to coarse sand		0
0						Wet		0
0						No recovery		0
5						Medium dense, slightly moist, gray, silty, gravelly SAND (SM); fine to coarse gravel, fine to coarse sand		5
0						Wet, organic SILT (OL); with woody debris		0
0						No recovery		0
0	[Solid black bar]	CC-03	CN-B11-6	0	0	Wood waste		10
0						No recovery		0
0						No recovery		0
15	Bottom of boring 15 feet Note: Density and consistency was estimated based on sample observations.							15

▽ 12/4/2013

Hydrated bentonite chip backfill

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **AHP**

Approved by: **SJG**

Figure No. **A- 44**



# Boring Log

Project Number  
110207

Boring Number  
CN-B12

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 12/4/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
						Asphalt pavement		
				0				
				0			Medium dense, slightly moist, white brown and gray mottled, silty, gravelly SAND (SM); fine to coarse sand, fine to medium gravel	
				0			Dense, slightly moist, gray SAND (SP); fine sand	
			CN-B12-2	0				
		CC-01		0				
				0			Medium dense, moist, gray silty SAND (SM); fine to medium sand, shell fragments	
				0			No recovery	
5	▽ 12/4/2013							5
				0			Medium dense, wet, gray silty SAND (SM); fine to medium sand, shell fragments	
				0				
				0				
				0				
			CN-B12-5	0				
	Hydrated bentonite chip backfill	CC-02		0				
				0			Woody debris at 8.25'	
				0			Woody debris at 9'	
			CN-B12-9.5	0				
10							Woody debris	10
							No recovery	
15							Bottom of boring 15 feet Note: Density and consistency was estimated based on sample observations.	15

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- ▼ Static Water Level
- ▽ Water Level (ATD)

Logged by: **AHP**

Approved by: **SJG**

Figure No. **A- 45**



# Boring Log

Project Number  
110207

Boring Number  
CN-B13

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 12/4/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
							Grass, topsoil	
			CN-B13-1.5	0			Medium dense, slightly moist, brown, SILTY SAND (SM); roots	
				0			Dense, moist, gray, SAND (SP); fine sand	
		CC-01		0				
			CN-B13-3	0			Wet	
				0			Black, organic SILT (OL) with woody debris	
							No recovery	
5	▽ 12/4/2013						Woody debris	5
				0			No recovery	
	Hydrated bentonite chip backfill	CC-02		0				
							Woody debris	10
				0			Medium dense, wet, gray silty SAND (SM); fine to medium sand; odor	
		CC-03	CN-B13-11.5	0			No recovery	
				0				
15							Bottom of boring 15 feet Note: Density and consistency was estimated based on sample observations.	15

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **AHP**

Approved by: **SJG**

Figure No. **A- 46**



# Boring Log

Project Number  
110207

Boring Number  
CN-B14

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 12/5/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	▽ 12/5/2013							
			CN-B14-0.5	0		Recycled demo debris		
				0		Wet		
			CN-B14-1.25	0		Stiff, wet, brownish gray, sandy SILT (ML); fine sand		
		CC-01				No recovery		
5				0		Loose, wet, brown, gravelly SILT (ML)		5
	Hydrated bentonite chip backfill	CC-02		0		Woody debris		
				0		Medium dense, wet, gray, silty SAND (SM); fine to medium sand		
						No recovery		
10						Medium dense, wet, gray, silty SAND (SM); fine to medium sand		10
		CC-03	CN-B14-10			No Recovery		
15						Bottom of boring 15 feet Note: Density and consistency was estimated based on sample observations.		15

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- ▽ Static Water Level
- ▽ Water Level (ATD)

Logged by: **AHP**

Approved by: **SJG**

Figure No. **A- 47**





# Boring Log

Project Number  
110207

Boring Number  
CN-MW-01

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 14.41

Location: Everett, WA

Driller/Method: Holt / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core 3"

Start/Finish Date 10/22/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	8" Flush-mount monument and thermos cap Concrete surface seal 0' to 1' 3/8" Hydrated bentonite chips 1' to 2'						Dry, brown to black, gravelly, silty, SAND (SM); organics (woody debris)	
5	20/40 pre-pack Silica sand filter pack 2' to 13.25'	CC-1	CN-MW-1-4.5				Dry, light gray, slightly silty, slightly sandy, GRAVEL (GP-GM)	
10							Slightly moist, dark gray, interbedded SAND (SP) and SILT (ML); fine sand	
10							No recovery	
10							Slightly moist, dark gray, interbedded SAND (SP) and SILT (ML); fine sand	5
10							Wet, SAND (SW) and SILT (ML); fine to coarse, rounded, sand, shell fragments	
10							No recovery	
10							Wet, gray, SAND (SW); fine to coarse sand	10
10							Wet, gray, SILT (ML); interbedded with wood chips	
10							No recovery	
15	Threaded cap Slough 13.25' to 15'	CC-3	CN-MW-1-13					
15							Bottom of boring at 15 feet	15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **AHP**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 48**



## Boring Log

Project Number  
110207

Boring Number  
CN-MW-02

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 15.01

Location: Everett, WA

Driller/Method: Holt / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core 3"

Start/Finish Date 10/22/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	8" Flush-mount monument and thermos cap Concrete surface seal 0' to 1' 3/8" Hydrated bentonite chips 1' to 2'					Asphalt pavement		
		CC-1		0		Dry, gray to green gray, gravelly, SAND (SP); fine, subrounded sand		
						Dry, gray, SAND (SP); fine sand		
						Dry, gray, SILT (ML)		
						Dry, gray, SAND (SP); fine sand		
						Dry, gray, SILT (ML)		
						No recovery		
5	20/40 pre-pack Silica sand filter pack 2' to 12.75'							
	▽ 10/22/2013	CC-2		0		Wet, gray, sandy, SILT (ML); numerous shell fragments		5
						Trace shell fragments		
						No recovery		
10	2" Diameter PVC pre-packed 10-slot screen 2.5' to 12.5'							
		CC-3				Wood chips		10
	Threaded cap					No recovery		
	Slough 12.75' to 15'							
15							Bottom of boring at 15 feet	15

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- ▽ Static Water Level
- ▽ Water Level (ATD)

Logged by: **AHP**

Approved by: **SJG**

Figure No. **A- 49**



# Boring Log

Project Number  
110207

Boring Number  
CN-MW-03

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 13.50

Location: Everett, WA

Driller/Method: Holt / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core 3"

Start/Finish Date 10/22/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	8" Flush-mount monument and thermos cap					Asphalt pavement		
0 to 1'	Concrete surface seal					Dry to slightly moist, gray, silty, gravelly, SAND (SM); fine to medium sand, fine gravel		
1' to 2'	3/8" Hydrated bentonite chips					Wood chips		
10/22/2013		CC-1	CN-MW-3-4	0		Moist, gray, SILT (ML)		
			CN-MW-3-4.5	0		Wet, gray, SAND; fine to medium, subrounded, sand		
5	20/40 pre-pack Silica sand filter pack 2' to 13.25'					No recovery		
		CC-2	CN-MW-3-6	0		Wood chips		5
10	2" Diameter PVC pre-packed 10-slot screen 3' to 13'					No recovery		
						Wood chips		10
0	Threaded cap					No recovery		
	Slough 13.25' to 15'	CC-3						
15						Bottom of boring at 15 feet		15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **AHP**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 50**



### Boring Log

Project Number  
110207

Boring Number  
CSB-B01

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/19/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
						Recycled demo debris		
				0				
				0		Medium dense, moist, brown sandy GRAVEL (GW); fine to coarse sand, fine to coarse subangular gravel		
		CC-01						
						No recovery		
5								5
				0		Medium dense, moist, brown sandy GRAVEL (GW); fine to coarse sand, fine to coarse subangular gravel		
			CSB-B1-6	0				
				0		Medium dense, moist to wet, brown, slightly gravelly SAND (SW); fine gravel, fine to coarse sand		
	Hydrated bentonite chip backfill	CC-02		0				
	▽ 11/19/2013			0				
			CSB-B1-8	0				
				0		No recovery		
10								10
				0		Medium dense, moist to wet, brown, slightly gravelly SAND (SW); fine gravel, fine to coarse sand		
			CSB-B1-12	0				
				0		Medium stiff, wet, gray, silty SAND (SM); fine sand		
		CC-03		0				
				0		trace shells		
				0		Fine to coarse sand		
				0		No recovery		
15								15
							Bottom of boring 15 feet Note: Density and consistency was estimated based on sample observations.	

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AHP

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 51



# Boring Log

Project Number  
110207

Boring Number  
CSB-B02

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/19/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
1	Hydrated bentonite chip backfill	CC-01	CSB-B2-2-111913			Recycled demo debris		1
2						Medium stiff, slightly moist, gray, slightly gravelly, silty SAND (SM); fine to medium sand	2	
3						Stiff	3	
4						No recovery	4	
5						Bottom of boring 5 feet Note: Density and consistency was estimated based on sample observations.	5	
6								6
7								7
8								8
9								9

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AHP

No Recovery

Static Water Level

Approved by: SJG

Continuous Core

Water Level (ATD)

Figure No. A- 52



# Boring Log

Project Number  
110207

Boring Number  
DA-B-01

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 9/5/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
						Asphalt		
			DA-B-01-1-2	0		Moist to wet, brown, gravelly SAND (SP); poorly graded fine to medium sand		
	▽			0		Thin bed silt		
	▽	CC-1		0		Becomes wet, black, slightly gravelly		
	3/8" hydrated bentonite chips			0		No recovery		
5			DA-B-01-5-6	0		Wet, gray to black, gravelly SAND (SP); poorly graded medium sand		5
				0				
			DA-B-01-7-8	0		Numerous seashells		
		CC-2		0				
10				0		Bottom of boring at 10' BGS		10
15								15
20								20
25								25

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET/MAR

○ No Recovery

▽ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 53



# Boring Log

Project Number  
110207

Boring Number  
DA-MW-01

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 9/7/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	8" flush-mount monument and thermos cap					Asphalt		
0	Concrete surface seal		DA-MW-01-1-2	0		Moist, dark gray, gravelly, very silty SAND (SM); fine sand		
0	3/8" hydrated bentonite chips			0				
0	10/20 silica sand filter pack	CC-1		0		No recovery		
5	2" diameter PVC pre-packed .001 slot screen		DA-MW-01-5-6	1.7		Wet, dark gray, gravelly, very silty SAND (SM); fine sand		5
5				1.8		Plastic sheeting		
5		CC-2	DA-MW-01-7-8	1.4		Wet, dark gray SAND (SP); fine to medium sand; trace gravel		
5				1.1				
5				0.7				
5				0.5				
10				0		No recovery		10
10				0		Wet, dark gray SAND (SP); fine to medium sand; trace gravel		
10		CC-3						
15	Threaded cap					Wet, gray, clayey SILT (ML)		
15	Slough					Wet, brown PEAT (PT); fibrous peat		
15						Wet, brown gray SAND (SP); fine to medium sand, numerous organics		
15						Wet, brown PEAT (PT); fibrous peat		15
15						Bottom of boring at 15' BGS		

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: AET/MAR

Approved by: SJG

Figure No. A- 54



# Boring Log

Project Number  
110207

Boring Number  
DP-01

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 2/14/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	Concrete					Asphalt		
	Hydrated medium bentonite chips	CC-1	DP-1-2.5-3	0		Wet, brown to gray, slightly sandy GRAVEL (GP); trace silt, fine angular gravel		
				0		Wet, dark brown, slightly silty, gravelly SAND (SP); fine to medium sand		
				0		Gray sand, trace gravel		
				0.7		No recovery		
5		CC-2	DP-2-5.5-6	0.7		Wet, dark brown, slightly silty, gravelly SAND (SP); fine to medium sand		5
				0		No recovery		
				0		No recovery		
				0		No recovery		
10		CC-3		0		Wet, dark brown, slightly silty, gravelly SAND (SP); fine to medium sand, scattered shell fragments		10
				0		Wet, gray, sandy GRAVEL (GP); fine to medium gravel, scattered shell fragments		
				0		No recovery		
				0		Wet, gray SAND (SP); trace gravel and silt, fine to medium sand		
				0		No recovery		
15				0		Bottom of boring at 15' BGS		15

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MAR**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 56**





# Boring Log

Project Number  
110207

Boring Number  
DP-02

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 2/14/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	Concrete					Concrete		
0	Hydrated medium bentonite chips	CC-1	DP-2-1.5-2.5	0		Wet brown to gray, slightly sandy to sandy GRAVEL (GP); trace silt, fine-to-medium subangular gravel		
0				0		Wet, brown SAND (SP); trace gravel, fine to medium sand		
0			DP-2-4-5	9.5		Becomes black, gravelly, scattered wood		
5				57.7		Becomes gray		5
		CC-2	DP-2-6-7	2.9		No recovery		
10				0		Wet, brown SILT (ML)		10
		CC-3		0		Wet, gray, slightly gravelly SAND (SP); fine to medium sand		
				0		No recovery		
15						Bottom of boring at 15' BGS		15

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **MAR**

Approved by: **SJG**

Figure No. **A- 57**



# Boring Log

Project Number  
110207

Boring Number  
DP-03

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 2/14/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	Concrete						Concrete to 9"	
0.1	Hydrated medium bentonite chips	CC-1	DP-3-1-2	0		Wet, brown, sandy GRAVEL (GP); trace silt, fine angular gravel		
0.1				0.1		Wet, brown to gray, silty, gravelly SAND (SP); fine to medium sand		
0.1				0				
5			DP-3-4-5			Product from 3.5' to 5' Wood at 4', strong petroleum-like odor		5
5				28.7				
5			DP-3-6-7			Black SILT (ML)		
5				1.5		Wet, gray SAND (SP); trace gravel, medium sand		
5		CC-2		1.5				
5				1.5				
10				1.5		Wet, dark gray, silty SAND (SM); fine sand		10
10				0.2		Wet, gray SAND (SP); trace gravel, fine to medium sand		
10		CC-3		0.2				
10				0.2				
10				0.2				
15				0.2				
15				0.2			Bottom of boring at 15' BGS	15

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **MAR**

Approved by: **SJG**

Figure No. **A- 58**



### Boring Log

Project Number  
110207

Boring Number  
DP-04

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. \_\_\_\_\_

Location: Everett, WA

Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access

Depth to Water (ft BGS) \_\_\_\_\_

Sampling Method: Continuous Core

Start/Finish Date \_\_\_\_\_

2/14/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	Concrete					Asphalt		
			DP-4-1-2	0		Wet, brown, slightly sandy GRAVEL (GP); subangular fine-medium gravel		
	Hydrated medium bentonite chips	CC-1		0		Wet, gray, SAND (SP); fine to medium sand		
				0		Wet, gray, silty SAND (SM); fine sand, brick fragment		
5		CC-2		0		Wet, gray SAND (SP); fine to medium sand		5
			DP-4-9-10	0		Very silty SAND (SP); numerous organics		
		CC-3		0		Fibrous brown PEAT (PT); hydrogen sulfide odor		
10				0		Sand lens		
				0		Fibrous brown PEAT (PT); hydrogen sulfide odor		
				0		Silty SAND (SM); fine sand, numerous organics		
15				0		Bottom of boring at 15' BGS		15

- Sampler Type:
- No Recovery
  - ▣ Continuous Core

- PID - Photoionization Detector (Headspace Measurement)
- ▼ Static Water Level
  - ▽ Water Level (ATD)

Logged by: **MAR**  
 Approved by: **SJG**  
 Figure No. **A- 59**

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014



# Boring Log

Project Number  
110207

Boring Number  
DP-05

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 2/14/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	Concrete						Concrete to 9"	
0.2			DP-5-1.5-2.5	0.2			Wet, brown, sandy GRAVEL (GP); angular fine-to-medium gravel	
0.2	Hydrated medium bentonite chips	CC-1		0.2			Wet, gray, slightly sandy SILT (ML); trace gravel	
0.3				0.3				
0.2				0.2			Wet, gray SAND (SP); fine to medium sand	
5				65.9			Wet, gray, slightly sandy SILT (ML)	5
5			DP-5-7-8	65.9				
5		CC-2		65.9				
5				65.9				
10				0			Wet, gray SAND (SP); fine to medium sand	10
10				0				
10				0				
10		CC-3		0			Wet, brown, organic SILT (OL)	
10			DP-5-13-14	0			Wet, gray SAND (SP); fine to medium sand	
10				0			Wet, gray SAND (SW); fine to coarse sand	
15				0			Bottom of boring at 15' BGS	15

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **MAR**

Approved by: **SJG**

Figure No. **A- 60**



# Boring Log

Project Number  
110207

Boring Number  
DP-06

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 2/14/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	Concrete					Asphalt		0
0.2				0.2		Moist, gray, slightly silty, sandy GRAVEL (GP); fine-to-medium subrounded gravel		0.2
0.2				0.2		Moist, brown, SILT (ML)		0.2
0.2				0.2		Wet, brown, sandy GRAVEL (GP); fine to medium subrounded gravel		0.2
0.2				0.2		Wet, dark gray, slightly sandy SILT (ML)		0.2
5		CC-1	DP-6-3-4	0				5
5		CC-2	DP-6-7-8	0				5
10		CC-3		0		Wet, dark gray SAND (SP); trace gravel, fine to medium sand		10
15				0		4" organic SILT (OL)		15
15				0		Wet, gray, silty SAND (SP); fine to medium sand, numerous organics		15
15				0		Bottom of boring at 15' BGS		15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MAR**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 61**



# Boring Log

Project Number  
110207

Boring Number  
DP-08

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 2/14/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	Concrete					Asphalt		
				0		Moist, brown, silty, sandy GRAVEL (GM); fine angular gravel		
	Hydrated medium bentonite chips	CC-1		0				
			DP-8-4-5	0		Very moist, brown SAND (SP); trace gravel, fine sand		
5				1.8		Wet, dark gray, very silty SAND (SM); fine sand, scattered shell fragments		5
		CC-2	DP-8-6-7	1.8				
				1.8		3" bed organic SILT (OL)		
				1.8		Wet, dark gray SAND (SP); fine to medium sand		
10				35.8				10
		CC-3	DP-8-12-13	35.8				
				35.8				
				35.8				
15				35.8				15
							Bottom of boring at 15' BGS	

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **MAR**

Approved by: **SJG**

Figure No. **A- 62**



# Boring Log

Project Number  
110207

Boring Number  
DP-10

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 2/14/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	Concrete					Asphalt		
				0.2		Concrete		
	Hydrated medium bentonite chips	CC-1	DP-10-3-4	0.2		Moist, brown to gray, silty SAND (SM); fine sand, alternating bands of gray and brown		
5				0.2		Moist to wet, dark gray SAND (SP); fine to medium sand with numerous shell fragments		5
		CC-2		0.8				
				0.8				
				0.8				
				0.8				
10			DP-10-9-10	0.8		2" silt interbed		10
				21.4		Wet, dark gray, silty SAND (SM); fine sand		
		CC-3		21.4		Wet, dark gray SAND (SP); fine to medium sand		
				21.4		Wet, dark gray, silty SAND (SM); fine sand		
				21.4				
15				21.4		Wet, dark gray SAND (SP); fine to medium sand		15
						Bottom of boring at 15' BGS		

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **MAR**

Approved by: **SJG**

Figure No. **A- 63**



# Boring Log

Project Number  
110207

Boring Number  
DP-11

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 2/15/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	Concrete					Asphalt		
0	Hydrated medium bentonite chips	CC-1	DP-11-4-5	0		Very moist, brown to dark brown, gravelly SAND (SP); poorly graded fine-to-medium sand		
0								
0								
5				0		Wet, dark gray SILT (ML); scattered organics (wood), slight H2S odor		5
0				0				
0				0				
10		CC-2	DP-11-8.5-9.5	0		Wet, black, SAND (SP); fine to medium sand, scattered shell fragments, H2S odor		10
0				0				
0				0				
15		CC-3	DP-11-14-15	2.7		Bottom of boring at 15' BGS		15
0				2.7				
0				10.0				

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MAR**

No Recovery

Static Water Level

Approved by: **SJG**

Continuous Core

Water Level (ATD)

Figure No. **A- 64**





# Boring Log

Project Number  
110207

Boring Number  
DP-12

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 2/15/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	Concrete					Asphalt		
0	Hydrated medium bentonite chips	CC-1	DP-12-6.5-7.5	0	0	Moist, brown, very silty GRAVEL (GM); trace sand, no odor		
0						Moist, brown, gravelly SAND (SP); fine to medium sand; debris (burnt/melted plastic, charred brick)		
5						Wet, brown, very silty GRAVEL (GM); fine to medium subangular gravel; debris (burnt/melted plastic, charred brick) to 8'		
0	Hydrated medium bentonite chips	CC-2	DP-12-9-10	0	0	Wet, black, SAND (SP); fine to medium sand		
0						Wet, dark brown to dark gray, very sandy GRAVEL (GP); trace black silt, fine to medium subrounded gravel		
10						H2S odor at 14'		
0	Hydrated medium bentonite chips	CC-3		0	0	Bottom of boring at 15' BGS		
15								

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: MAR

No Recovery

Static Water Level

Approved by: SJG

Continuous Core

Water Level (ATD)

Figure No. A- 65



# Boring Log

Project Number  
110207

Boring Number  
DP-13

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 2/15/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	Concrete					Asphalt		
0	Hydrated medium bentonite chips	CC-1	DP-13-3-4	0		Very moist, brown, very gravelly SAND (SP); poorly graded fine-to-medium sand		
0								
0								
5				0		Very moist, dark brown, slightly gravelly SILT (ML)		5
0	Hydrated medium bentonite chips	CC-2	DP-13-12-13	0		Wet, brown, very silty GRAVEL (GM); fine to medium subangular gravel; debris (firebrick, ceramic, wood)		
0								
0								
10				0		Wet, dark gray to black, sandy SILT (ML), no odor		10
0	Hydrated medium bentonite chips	CC-3	DP-13-12-13	0		Wet, black SAND (SP); trace silt, fine to medium sand		
0								
0								
15				0		Bottom of boring at 15' BGS		15

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MAR**

No Recovery

Static Water Level

Approved by: **SJG**

Continuous Core

Water Level (ATD)

Figure No. **A- 66**



# Boring Log

Project Number  
110207

Boring Number  
DP-18

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
Location: Everett, WA  
Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
Sampling Method: Continuous Core Start/Finish Date 2/16/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	Concrete			0		Wood chips		
0	Hydrated medium bentonite chips	CC-1	DP-18-2.5-3.5	0				
0				0			Moist, gray, sandy, gravelly SILT (ML); poorly graded fine-to-medium subrounded gravel	
5				0				5
5		CC-2		0				
10				0				
10				0			Bottom of boring at 10' BGS	10
15								15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MAR**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 67**



# Boring Log

Project Number  
110207

Boring Number  
DP-19

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 2/16/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	Concrete			0		Wood chips		
0	Hydrated medium bentonite chips	CC-1	DP-19-2.5-3.5	0		Moist, gray, slightly gravelly, very silty SAND (SM); fine sand		
5				0				
5				0				
5		CC-2		0		Wet, gray to blue-gray, slightly gravelly SILT (ML); slight H2S odor		
10		CC-3		0				
15				0				
15						Bottom of boring at 15' BGS		15

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **MAR**

Approved by: **SJG**

Figure No. **A- 68**



# Boring Log

Project Number  
110207

Boring Number  
DP-20

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 2/16/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	Concrete			0		Wood chips		
0				0				
0	Hydrated medium bentonite chips	CC-1	DP-20-2.5-3.5	0		Moist, gray, gravelly, silty SAND (SM); fine sand		
0				0		Moist, dark gray, gravelly, sandy SILT (ML)		
5				0		Concrete rubble 5' to 6'		5
0				0		Wet, black, gravelly, silty SAND (SM); Wood chips at 7', fine sand		
0		CC-2		0				
0				0		Wet, brown, sandy SILT (ML)		
10				0		Bottom of boring at 10' BGS		10
15								15

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **MAR**

Approved by: **SJG**

Figure No. **A- 69**



# Boring Log

Project Number  
110207

Boring Number  
DP-21

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 2/16/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	Concrete			0		Wood chips		
0				0				
0	Hydrated medium bentonite chips	CC-1		0				
0			DP-21-4-5	0				
5				0		Moist, dark gray, gravelly, silty SAND (SM)		5
0				0		Concrete rubble from 6' to 7'		
0		CC-2		0		Very moist to wet, dark gray, gravelly, sandy SILT (ML)		
0				0				
10				0			Bottom of boring at 10' BGS	10
15								15

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **MAR**

Approved by: **SJG**

Figure No. **A- 70**



# Boring Log

Project Number  
110207

Boring Number  
DP-22

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 2/16/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	Concrete			0		Wood chips		
0	Hydrated medium bentonite chips	CC-1	DP-22-3-4	0		Moist, gray, very silty SAND (SM); fine sand		
0				0		Moist, dark gray, sandy, gravelly SILT (ML)		5
5				0		Concrete rubble 6' to 7'		
0		CC-2		0		Moist, gray, sandy SILT (ML); silt is mottled brown and gray		
0				0				
0				0				
10							Bottom of boring at 10' BGS	10
15								15

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **MAR**

Approved by: **SJG**

Figure No. **A- 71**



# Boring Log

Project Number  
110207

Boring Number  
EM-B-1

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 4/23/2014

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
				0.0		Recycled demo debris		
		S1		0.0		No recovery		
5	Hydrated medium bentonite chips		EM-B-1-6	0.0		Moist, brown, slightly silty SAND (SP-SM); fine to medium sand		5
	▽ 4/23/2014	S2	EM-B-1-7	0.0		No recovery		
10				0.0		Wet, brown, sandy SILT (ML); mica flakes common		10
				0.0		Grades to gray		
		S3	EM-B-1-12.5	0.0		Wet, gray SAND (SP); fine to medium sand, trace silt		
				0.0		No recovery		
15						Bottom of boring at 15' bgs		15

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: AET/MML

Approved by: SJG

Figure No. A- 72





# Boring Log

Project Number  
110207

Boring Number  
GF11-B-01

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 9/5/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	3/8" hydrated bentonite chips	CC-1	GF11-B-01-0-1	0		Asphalt		
			GF11-B-01-2-3	0		Moist, brown gray, silty GRAVEL (GM); fine subangular gravel		
				0		Moist, black, slightly gravelly SAND (SP); trace silt; fine sand		
				0		Thin bed silt		
						No recovery		
5		CC-2	GF11-B-01-5-6	0		Wet, black, slightly gravelly, slightly silty SAND (SP-SM); fine sand, trace organics		5
				0		Wet, black SAND (SP); fine sand		
				0		No recovery		
10						Bottom of boring at 10' BGS		10
15								15
20								20
25								25

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET/MAR

○ No Recovery

▼ Static Water Level

Approved by: SJG

▮ Continuous Core

▽ Water Level (ATD)

Figure No. A- 73



# Boring Log

Project Number  
110207

Boring Number  
GF11-B-02

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 9/5/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	3/8" hydrated bentonite chips	CC-1	GF11-B-02-0-1			Asphalt		
			GF11-B-02-2-3			Moist, brown, sandy, silty GRAVEL (GM); fine subround gravel		
						Moist, brown, sandy GRAVEL (GP); fine subround gravel		
						Moist, brown SAND (SP); fine sand		
						No recovery		
5			GF11-B-02-5-6			Wet, brown, slightly silty, gravelly SAND (SP-SM); fine sand		5
		CC-2				Becomes black		
			GF11-B-02-7-8					
						Wet, black SAND (SP); fine sand		
10						No recovery		10
						Bottom of boring at 10' BGS		

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET/MAR

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 74



# Boring Log

Project Number  
110207

Boring Number  
GF11-B-03

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 9/5/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
		CC-1	GF11-B-03-0-1	0		Asphalt		
			GF11-B-03-2-3	0		Moist, brown, gravelly SAND (SP); poorly graded fine to medium sand		
				0		Becomes dark gray to black, slightly gravelly; fine sand		
				0		Becomes wet, gray; medium to coarse sand		
5		CC-2	GF11-B-03-5-6	0		No recovery		5
			0		Wet, gray to brown, gravelly SAND (SP); poorly graded fine to medium sand			
			0		Thin bed silty sand			
			0		Becomes gray			
				0		Thin bed black clayey silt		
				0		Thin bed sandy organic silt		
10						No recovery		10
						Bottom of boring at 10' BGS		
15								15
20								20
25								25

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET/MAR

No Recovery

Static Water Level

Approved by: SJG

Continuous Core

Water Level (ATD)

Figure No. A- 75



# Boring Log

Project Number  
110207

Boring Number  
GF9-B-01

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 9/6/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
						Wood chips		
				0			Moist, dark gray, gravelly, very silty SAND (SM); fine sand, trace organics	
				0				
				0				
			GF9-B-01-4-4.5	0				
5	3/8" hydrated bentonite chips	CC-1					No recovery	5
			GF9-B-01-5-6				Wet, dark gray, clayey SILT (ML)	
				0				
				0				
		CC-2						
			GF9-B-01-8-9					
				0			No recovery	
10				0			Bottom of boring at 10' BGS	10
15								15
20								20
25								25

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: AET/MAR

Approved by: SJG

Figure No. A- 77



# Boring Log

Project Number  
110207

Boring Number  
GF9-B-02

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 9/6/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
						Asphalt		
				0		Moist, brown SAND (SW); fine to coarse sand		
				0		Moist, dark brown, gravelly, silty SAND (SM)		
			GF9-B-01-3-3.5	0		Moist to wet, brown, gravelly SAND (SP); poorly graded fine to medium sand		
				0		No recovery		
5	3/8" hydrated bentonite chips	CC-1						5
			GF9-B-01-6-7	0		Wet, dark brown to dark gray, gravelly SAND (SP); poorly-graded fine-to-medium sand, numerous organics		
		CC-2						
			GF9-B-01-9-9.5	0		Wet, dark brown to black PEAT (PT)		
10				0		No recovery		10
						Bottom of boring at 10' BGS		
15								15
20								20
25								25

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET/MAR

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 78



# Boring Log

Project Number  
110207

Boring Number  
GF9-B03

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/19/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
						Recycled demo debris		
5		CC-01				No recovery		5
	Hydrated bentonite chip backfill							
	▽ 11/19/2013							
		CC-02		0		Medium stiff, slightly moist, black SILT (ML); trace woody debris		
				0		Stiff, slightly moist, gray SILT (ML)		
				0		Becomes black		
10				0		No recovery		10
			GF9-B3-11	0		Stiff, slightly moist, black SILT (ML)		
			GF9-B3-12	0		Wet		
		CC-03	GF9-B3-13	0		Medium dense, wet, brown silty SAND (SM); fine to medium sand		
				0		Stiff, wet, gray SILT (ML)		
				0		Medium dense, wet, brown, silty SAND (SM); fine to medium sand		
				0		Stiff, wet, gray SILT (ML)		
15				0		No recovery		15
						Bottom of boring 15 feet Note: Density and consistency was estimated based on sample observations.		

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AHP

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 79



# Boring Log

Project Number  
110207

Boring Number  
GF9-B04

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/19/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0						Recycled demo debris		
0		CC-01				Medium dense, slightly moist, brown, gravelly, silty SAND (SM); fine to medium sand		
						No recovery		
5						Medium dense, slightly moist, brown, gravelly, silty SAND (SM); fine to medium sand		5
						Wet		
			GF9-B4-6.5			No recovery		
		CC-02						
						Medium dense, slightly moist, brown, gravelly, silty SAND (SM); fine to medium sand		
10								10
						Stiff, wet, gray SILT (ML)		
			GF9-B4-11.5					
		CC-03						
						shell fragments at 14 feet		
			GF9-B4-13.5			No recovery		
15						Bottom of boring 15 feet Note: Density and consistency was estimated based on sample observations.		15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AHP

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 80



# Boring Log

Project Number  
110207

Boring Number  
GF9-MW-01

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 9/6/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	8" flush-mount monument and thermos cap Concrete surface seal					Asphalt		
				0		Moist, brown, gravelly, very silty SAND (SM); fine sand		
				0		Moist, brown, gravelly SAND (SP); fine to medium sand Brick debris		
	3/8" hydrated bentonite chips	CC-1		0		No recovery		
5	2" static water level		GF9-MW-01-5.5-6.5	0		Wet, dark gray and brown, gravelly SAND (SP); fine to medium sand		5
	2/12 silica sand filter pack	CC-2		0		Wet, dark gray, very silty SAND (SM); fine to medium sand		
				0		No recovery		
10	2" diameter PVC pre-packed 0.010 slot screen		GF9-MW-01-10-11	6.8		Wet, dark gray, silty SAND (SM); fine to medium sand		10
		CC-3		2.8		Wet, dark gray, slightly silty SAND (SP-SM); fine to medium sand		
			GF9-MW-01-13-14	0				
15	Threaded cap					Bottom of boring at 15' BGS		15
20								20
25								25

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET/MAR

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 81





# Boring Log

Project Number  
110207

Boring Number  
GF9-MW-02

Sheet  
1 of 2

Project Name: Kimberly Clark

Ground Surface Elev. 18.66

Location: Everett, WA

Driller/Method: Holt / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core 3"

Start/Finish Date 10/29/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	8" Flush-mount monument and thermos cap Concrete surface seal 0' to 1'						Recycled demo debris and SILT	
0		CC-1		0			Dry, light gray and brown, silty GRAVEL (GM); fine to coarse, angular to subangular gravel, brick fragments	
15	3/8" Hydrated bentonite chips 1' to 5'			0			No recovery	
5				0			Dry, gray, sandy GRAVEL (GW); fine sand, fine to coarse, subangular gravel	5
				0			Slightly moist, dark brown, gravelly, SILT (ML); fine, subrounded gravel	
				0			Dry, light gray, sandy, GRAVEL (GW); fine sand, fine to coarse, subrounded to subangular gravel	
		CC-2	GF9-MW-2-7.5	0			Slightly moist, dark brown, slightly gravelly, silty, SAND (SM); fine to medium sand, fine, subrounded gravel	
				0			Slightly moist, light brown, sandy, GRAVEL (GP); fine to medium sand, fine, subrounded gravel	
10				0			Moist, dark brown, silty, SAND (SM); fine to medium sand, trace, fine, subrounded gravel, silt lens present	
10	10/20 pre-pack Silica sand filter pack 5' to 16.25'						No recovery	10
							Slough	
		CC-3	GF9-MW-2-11	0			Wet, dark gray, slightly gravelly, silty, SAND (SM); fine to medium sand, fine, subrounded gravel	
5				0				
15	2" Diameter PVC pre-packed 10-slot screen 6' to 16' Threaded cap			0			Wet, dark gray, slightly gravelly, silty, SAND (SM); fine to medium sand, fine, subrounded gravel, silt lenses present	15
		CC-4	GF9-MW-2-15	0				
0	Slough 16.25' to 20'			0			No recovery	20

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: JLO

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 82



### Boring Log

Project Number  
110207

Boring Number  
GF9-MW-02

Sheet  
2 of 2

Project Name: Kimberly Clark Ground Surface Elev. 18.66  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 3" Start/Finish Date 10/29/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
							Bottom of boring at 20 feet	
-5								
25								25
-10								
30								30
-15								
35								35
-20								
40								40

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: JLO

Approved by: SJG

Figure No. A- 82



# Boring Log

Project Number  
110207

Boring Number  
GF9-MW-03

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 19.13

Location: Everett, WA

Driller/Method: Holt / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core 3"

Start/Finish Date 11/1/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0 to 1'	8" Flush-mount monument and thermos cap Concrete surface seal						Recycled demo debris	
1' to 3.75'	3/8" Hydrated bentonite chips	CC-1						
3.75' to 15'	10/20 pre-pack Silica sand filter pack	CC-2						
15'	Threaded cap							
5'							Slightly moist, gray, silty, SAND (SM); fine to medium sand No recovery	
5' to 10'							Slightly moist, dark gray, slightly gravelly, silty, SAND (SM); fine to coarse sand, fine to coarse gravel	5
10' to 10.5'							Wet, black, slightly sandy, SILT (ML); trace gravel	
10.5' to 11'							Wet, green gray, silty, SAND (SM); fine to coarse sand	
11' to 11.5'							Wet, black, silty, SAND (SM); fine to coarse sand No recovery	
11.5' to 12.5'							Wet, black, slightly gravelly, SILT (ML)	10
12.5' to 14.75'							Wet, green gray, SILT (ML); trace gravel	
14.75' to 15'							No recovery	
15'							Bottom of boring at 15 feet	15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **AHP**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 83**



# Boring Log

Project Number  
110207

Boring Number  
GF-B-01

Sheet  
1 of 2

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Hollow Stem Auger Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Splitspoon Start/Finish Date 5/25/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)									
0	Hydrated medium bentonite chips	Hand icon	GF-B-1-1-2.5	0	4 5 5	Dotted pattern	Loose, slightly moist, gray, slightly silty, gravelly SAND (SW-SM); well-graded fine to coarse sand, poorly graded fine gravel	0									
4		Static Water Level					0	2 6 6	Cross-hatch pattern	Loose, moist to wet, gray, silty SAND (SM); poorly graded fine sand	4						
5		Sample S-1								0	6 5 2	Cross-hatch pattern	Wood chips.	5			
5		Sample S-2											0	1 1 3	Cross-hatch pattern	Becomes loose	5
10		Sample S-3														0	1 0 0
10	Sample S-4	0	1 0 0	Cross-hatch pattern		10											
15	Sample S-5				0	1 0 0	Dotted pattern	Very loose, wet, gray, SAND (SW); trace silt, well-graded fine to coarse sand, sampler driven with just weight of hammer	15								
15								0	1 0 0	Dotted pattern		15					
15											0	1 0 0	Dotted pattern		15		
15														0	1 0 0	Dotted pattern	
15		0	1 0 0	Dotted pattern													
15					0	1 0 0	Dotted pattern										

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:  No Recovery       3.25" OD D&M Split-Spoon Ring Sampler

PID - Photoionization Detector (Headspace Measurement)

Static Water Level

Water Level (ATD)

Logged by: **MV**

Approved by: **SJG**

Figure No. **A- 84**



# Boring Log

Project Number  
110207

Boring Number  
GF-B-01

Sheet  
2 of 2

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Hollow Stem Auger Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Splitspoon Start/Finish Date 5/25/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
		S-6		0	0 0 0			
	Hydrated medium bentonite chips							
25		S-7		0	6 12 16		Becomes medium dense	25
							Bottom of boring at 26.5' BGS	
30								30
35								35

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MV**

No Recovery

Static Water Level

Approved by: **SJG**

Grab Sample

Water Level (ATD)

3.25" OD D&M Split-Spoon

Figure No. **A- 84**

Ring Sampler



# Boring Log

Project Number  
110207

Boring Number  
GF-B-02

Sheet  
1 of 2

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Hollow Stem Auger Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Splitspoon Start/Finish Date 5/25/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	Hydrated medium bentonite chips	S-1	GF-B-2-2.5-4	0	8 30 32			
5		S-2		0	4 9 7		Medium dense, wet, black, silty SAND (SM); poorly graded fine sand	5
		S-3		0	4 5 5		Becomes wood chips	
10		S-4		0	11 15 4			10
15		S-5		0	3 5 4		Very loose, wet, gray, SAND (SP); trace silt, poorly graded fine to medium sand	15

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- 3.25" OD D&M Split-Spoon
- Ring Sampler

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: MV

Approved by: SJG

Figure No. A- 85



# Boring Log

Project Number  
110207

Boring Number  
GF-B-02

Sheet  
2 of 2

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Hollow Stem Auger Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Splitspoon Start/Finish Date 5/25/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	Hydrated medium bentonite chips	S-6		0	0 1 3	Medium dense, wet, gray, SAND (SW); trace silt		
25		S-7		0	3 5 8			25
							Bottom of boring at 26.5' BGS	
30								30
35								35

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- 3.25" OD D&M Split-Spoon
- Ring Sampler

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **MV**

Approved by: **SJG**

Figure No. **A- 85**



# Boring Log

Project Number  
110207

Boring Number  
GF-B-03

Sheet  
1 of 2

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Hollow Stem Auger Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Splitspoon Start/Finish Date 5/29/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
5	Hydrated medium bentonite chips	Hand	GF-B-3-1-2.5	0	4 2 3	Dotted pattern	Loose, slightly moist, gray, gravelly to very gravelly SAND (SW); gravel rounded, size up to 2"	5
							Loose, moist, gray, clean fine SAND (SP)	
		Hand	S-1	0	0 1 2	Vertical lines	Very loose, wet, gray, silty SAND (SM); trace gravel, trace wood	
		Hand	S-2	0	1 2 4	Dotted pattern	Loose, wet, gray, slightly silty SAND (SP); poorly graded fine sand	
		Hand	S-3	0	5 2 3	Dotted pattern	Loose, wet, gray, slightly silty SAND (SP); poorly graded fine sand	
10	Hydrated medium bentonite chips	Hand	GF-B-3-11-12.5	0	0 0 1	Dotted pattern	Becomes wood chips	15
							Very loose, wet, gray, gravelly SAND (SP/SW); trace wood chips, grades from SP to SW	
							Very loose, wet, gray SAND (SM); poorly graded medium coarse sand, no fine sand	
15	Hydrated medium bentonite chips	Hand	S-4	0	0 0 1	Dotted pattern	Very loose, wet, gray SAND (SM); poorly graded medium coarse sand, no fine sand	15
							Very loose, wet, gray SAND (SM); poorly graded medium coarse sand, no fine sand	
15	Hydrated medium bentonite chips	Hand	S-5	0	0 0 1	Dotted pattern	Very loose, wet, gray SAND (SM); poorly graded medium coarse sand, no fine sand	15
							Very loose, wet, gray SAND (SM); poorly graded medium coarse sand, no fine sand	

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: GL

- No Recovery
- Grab Sample
- 3.25" OD D&M Split-Spoon Ring Sampler

- Static Water Level
- Water Level (ATD)

Approved by: SJG

Figure No. A- 86





# Boring Log

Project Number  
110207

Boring Number  
GF-B-03

Sheet  
2 of 2

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Hollow Stem Auger Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Splitspoon Start/Finish Date 5/29/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	Hydrated medium bentonite chips	S-6		0	1 1 3	Becomes dense		
25		S-7		0	5 15 23			25
							Bottom of boring at 26.5' BGS	
30								30
35								35

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: GL

No Recovery

Static Water Level

Approved by: SJG

Grab Sample

Water Level (ATD)

3.25" OD D&M Split-Spoon

Figure No. A- 86

Ring Sampler



# Boring Log

Project Number  
110207

Boring Number  
GF-B-04

Sheet  
1 of 2

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Hollow Stem Auger Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Splitspoon Start/Finish Date 5/25/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
							Slightly moist, gray-brown, slightly silty, slightly sandy GRAVEL (GW)	
	Hydrated medium bentonite chips	S-1	GF-B-4-2.5-4	0	4 4 4		Loose, moist, gray, silty SAND (SM); poorly graded fine sand	
5		S-2		0	1 2 2		Becomes very loose	5
		S-3	GF-B-4-7.5-9	0	1 3 5		Loose, moist, gray, silty SAND (SM); poorly graded fine sand with wood chips present	
10		S-4		0	0 1 1		Very loose, wet, gray SAND (SP); trace silt, poorly graded fine to medium sand	10
		S-5		0	0 0 3		Soft, wet, gray, sandy SILT (ML) interbedded with wet, gray, silty SAND (SM); poorly graded fine to medium sand	15
							Very loose, wet, gray, silty SAND (SM); poorly graded fine to medium sand with wood chips present	

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: MV

- No Recovery
- 3.25" OD D&M Split-Spoon
- Ring Sampler

▼ Static Water Level

Approved by: SJG

▽ Water Level (ATD)

Figure No. A- 87



# Boring Log

Project Number  
110207

Boring Number  
GF-B-04

Sheet  
2 of 2

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Hollow Stem Auger Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Splitspoon Start/Finish Date 5/25/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	Hydrated medium bentonite chips	S-6		0	0 1 2			
25		S-7		0	5 5 4	Loose, wet, gray, SAND (SW); trace silt, well-graded fine to coarse sand	25	
30						Bottom of boring at 26.5' BGS	30	
35							35	

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- 3.25" OD D&M Split-Spoon
- Ring Sampler

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **MV**

Approved by: **SJG**

Figure No. **A- 87**



# Boring Log

Project Number  
110207

Boring Number  
GF-B-05

Sheet  
1 of 2

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Hollow Stem Auger Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Splitspoon Start/Finish Date 5/29/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)		
	<p>Hydrated medium bentonite chips</p>		GF-B-5-1-2.5				Loose, slightly moist, gray, gravelly SAND (SW)			
		Hand icon							Loose, very moist, slightly gravelly SAND (SP); trace coarse sand, poorly graded fine to medium sand	
5		S-1			0	5 4 2				5
		S-2		Circle icon		0	2 2 2		Very loose, wet, slightly gravelly SAND (SP); poorly graded medium sand	
		S-3		Circle icon		0	3 3 3		Shells present, organic or slight hydrocarbon odor	
10	S-4	Circle icon		0	1 1 3		Trace silt, shells present	10		
							Becomes coarser grained, poorly graded medium to coarse sand, shells present			
15	S-5	Circle icon		0	0 1 2		Very loose silty SAND (SP); poorly graded fine sand, wood detritus present	15		
							Medium dense, wet, gray SAND (SP); trace organics, poorly graded medium sand, organic or slight hydrocarbon odor			

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: GL

○ No Recovery

▼ Static Water Level

Approved by: SJG

Hand icon Grab Sample

▽ Water Level (ATD)

■ 3.25" OD D&M Split-Spoon

Figure No. A- 88

Ring Sampler



# Boring Log

Project Number  
110207

Boring Number  
GF-B-05

Sheet  
2 of 2

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Hollow Stem Auger Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Splitspoon Start/Finish Date 5/29/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	Hydrated medium bentonite chips	S-6		0	6 5 7	Becomes coarse grained SAND (SP); trace shells, poorly graded medium to coarse sand, slight marine/ organic/ slight hydrocarbon odor		
25		S-7		0	3 4 5			25
							Bottom of boring at 26.5' BGS	
30								30
35								35

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **GL**

No Recovery

Static Water Level

Approved by: **SJG**

Grab Sample

Water Level (ATD)

3.25" OD D&M Split-Spoon

Figure No. **A- 88**

Ring Sampler



# Boring Log

Project Number  
110207

Boring Number  
GF-B-06

Sheet  
1 of 2

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Hollow Stem Auger Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Splitspoon Start/Finish Date 5/29/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)		
	Hydrated medium bentonite chips	S-1	GF-B-6-1-2.5	0	6 7 9	[Dotted Pattern]	Loose, slightly moist, gray, slightly musty odor, very gravelly SAND (SW)			
5							Medium dense, slightly moist, gray SAND (SP); trace silt, poorly graded fine to medium sand	5		
		S-2			GF-B-6-7.5-9	0	3 3 3	[Dotted Pattern]	Loose, wet, medium to coarse SAND (SP)	
									Loose, slightly moist, gray SAND (SP); trace silt, poorly graded medium to coarse sand	
		S-3			GF-B-6-7.5-9	0	8 13 24	[Cross-hatch Pattern]	Becomes medium dense	
	Becomes wood chips									
10	S-4		0	8 13 4	[Cross-hatch Pattern]		10			
	S-5		0	6 5 4	[Dotted Pattern]	Loose, wet, gravelly SAND (SP); trace fine grains				
15						Medium dense, wet, gray, gravelly SAND (SP); trace woody debris, poorly graded medium to coarse grains, fine to medium rounded gravel	15			

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Grab Sample
- 3.25" OD D&M Split-Spoon Ring Sampler

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: GL

Approved by: SJG

Figure No. A- 89



# Boring Log

Project Number  
110207

Boring Number  
GF-B-06

Sheet  
2 of 2

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Hollow Stem Auger Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Splitspoon Start/Finish Date 5/29/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	Hydrated medium bentonite chips	S-6	GF-B-6-20-21.5	0	2 2 14	[Material Type]		
25		S-7						0
30							Bottom of boring at 26.5' BGS	30
35								35

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: GL

No Recovery

Static Water Level

Approved by: SJG

Grab Sample

Water Level (ATD)

3.25" OD D&M Split-Spoon

Figure No. A- 89

Ring Sampler



# Boring Log

Project Number  
110207

Boring Number  
GF-B-07

Sheet  
1 of 2

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Hollow Stem Auger Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Splitspoon Start/Finish Date 5/21/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	Hydrated medium bentonite chips							
0 - 2.5		S-1	GF-B-7-1-2.5	0	1 2 2		Very loose, moist to wet, brown, slightly silty, slightly gravelly SAND (SW-SM); well-graded fine to coarse sand	0 - 2.5
2.5 - 4		S-2		0	4 4 2		Becomes loose and gray Becomes trace silt	2.5 - 4
4 - 7.5		S-3	GF-B-7-7.5-9	0	1 2 3			4 - 7.5
7.5 - 10		S-4		0	2 2 3		Becomes woody debris	7.5 - 10
10 - 15		S-5		0	0 0 3		Soft, wet, gray, sandy SILT (ML); laminae rusty brown organic silt	10 - 15

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Grab Sample
- 3.25" OD D&M Split-Spoon
- Ring Sampler

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **MV**

Approved by: **SJG**

Figure No. **A- 90**





# Boring Log

Project Number  
110207

Boring Number  
GF-B-07

Sheet  
2 of 2

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Hollow Stem Auger Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Splitspoon Start/Finish Date 5/21/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	Hydrated medium bentonite chips	S-6		0	1 5 11		Becomes very stiff	
25		S-7		0	15 15 25		Dense, wet, brown, silty SAND (SM); trace gravel, poorly graded fine to medium sand, diamict fabric present	25
							Bottom of boring at 26.5' BGS	
30								30
35								35

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MV**

No Recovery

Static Water Level

Approved by: **SJG**

Grab Sample

Water Level (ATD)

3.25" OD D&M Split-Spoon

Figure No. **A- 90**

Ring Sampler



# Boring Log

Project Number  
110207

Boring Number  
GF-B-08

Sheet  
1 of 2

Project Name: Kimberly Clark

Ground Surface Elev. \_\_\_\_\_

Location: Everett, WA

Driller/Method: Cascade Drilling / Direct Push Probe

Depth to Water (ft BGS) \_\_\_\_\_

Sampling Method: Continuous Core

Start/Finish Date 5/30/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0				0				
0		CC-1	GF-B-8-1-2.5	0			Moist, gray, gravelly, silty SAND (SM)	
0				0				
0				0				
5	Hydrated medium bentonite chips			0			Moist, brown, SAND (SP); poorly graded medium to coarse sand Becomes poorly graded fine sand with iron staining	5
0				0				
0		CC-2	GF-B-8-7.5-9	0			Very moist, dark gray, very sandy SILT (ML) and very silty SAND (SM)	
0				0			Very moist, brown SAND (SP); poorly graded fine sand Becomes medium grained sand Becomes black Becomes wet, gray, and well-graded fine to coarse sand	
10				0				10
0				0				
0		CC-3		0			Wet, gray, sandy, GRAVEL (GP); poorly graded fine gravel	
0				0			Wet, gray, slightly gravelly SAND (SP); trace coarse grains poorly graded fine to medium sand Becomes woody debris	
15				0				15
0				0				
0		CC-4		0				
0				0				
0				0				

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MAR**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 91**



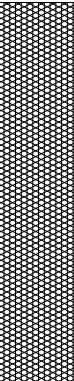


# Boring Log

Project Number  
110207

Boring Number  
GF-B-08

Sheet  
2 of 2

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 5/30/2012



Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	 Hydrated medium bentonite chips	 CC-4		0		 Becomes mostly medium grained		
			0					
			0					
			1.5				Slight hydrogen sulfide odor	
			2.7					
25				0			Bottom of boring at 25' BGS	25
30								30
35								35

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

-  Static Water Level
-  Water Level (ATD)

Logged by: **MAR**

Approved by: **SJG**

Figure No. **A- 91**



# Boring Log

Project Number  
110207

Boring Number  
GF-B-09

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 6/28/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
						Asphalt		
				0		Moist, brown, gravelly, slightly silty SAND (SM); poorly graded fine to medium sand, well-graded fine to coarse gravel, crushed rocks		
			GF-B-9-1-2.5	0				
				0				
				0				
5	Hydrated medium bentonite chips	CC-1						5
				0				
				0				
			GF-B-9-7.5-9	0		Wet, brown, slightly gravelly SAND (SP); poorly graded fine to medium sand		
				0				
				0				
10				0		Wet, black, sandy, gravelly SILT (ML)		10
						Bottom of boring at 10' BGS		
15								15

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET

No Recovery

Static Water Level

Approved by: SJG

Continuous Core

Water Level (ATD)

Figure No. A- 92



# Boring Log

Project Number  
110207

Boring Number  
GF-B-10

Sheet  
1 of 2

Project Name: Kimberly Clark

Ground Surface Elev. \_\_\_\_\_

Location: Everett, WA

Driller/Method: Cascade Drilling / Hollow Stem Auger

Depth to Water (ft BGS) \_\_\_\_\_

Sampling Method: Splitspoon

Start/Finish Date 5/24/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
			GF-B-10-1-2.5			Concrete		
		S-1		0	1 1 3	Loose, moist, brown-gray, silty SAND (SM); poorly graded fine sand		
5	Backfilled with medium bentonite chips	S-2		0	1 2 3	Medium stiff, moist, brown, sandy SILT (ML) Loose, moist, gray, silty SAND (SM)		5
		S-3	GF-B-10-7.5-9	0	3 4 5	Stiff, wet, brown, sandy SILT (ML) Loose, wet, gray, SAND (SP); trace silt, poorly sorted medium to coarse sand		
10		S-4		0	2 3 2			10
15		S-5		0	5 7 14	Becomes slightly gravelly and medium dense		15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MV**

No Recovery

Static Water Level

Approved by: **SJG**

Grab Sample

Water Level (ATD)

3.25" OD D&M Split-Spoon

Ring Sampler

Figure No. **A- 93**



# Boring Log

Project Number  
110207

Boring Number  
GF-B-10

Sheet  
2 of 2

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Hollow Stem Auger Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Splitspoon Start/Finish Date 5/24/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
		S-6		0	0 1 1		Becomes very loose, poorly sorted fine to medium sand	
25		S-7		0	5 6 9		Medium dense, wet, gray, silty SAND (SM); trace coarse sand, poorly graded fine to medium sand	25
30							Bottom of boring at 26.5' BGS	30
35								35

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MV**

No Recovery

Static Water Level

Approved by: **SJG**

Grab Sample

Water Level (ATD)

3.25" OD D&M Split-Spoon

Figure No. **A- 93**

Ring Sampler



# Boring Log

Project Number  
110207

Boring Number  
GF-B-11

Sheet  
1 of 2

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Hollow Stem Auger Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Splitspoon Start/Finish Date 5/24/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
						Asphalt		
		Hand icon	GF-B-11-1-2.5				Loose, black, silty SAND (SM); poorly graded fine sand, charcoal odor	
		○ S-1		0	4 2 3			
5	Backfilled with medium bentonite chips	○ S-2		0	2 2 2			5
		○ S-3	GF-B-11-7.5-9	0	1 1 3			
10	▼	○ S-4		0	1 3 4		Loose, wet, dark gray, silty SAND (SM); poorly graded fine to medium sand	10
15		○ S-5		0	6 5 11		Medium dense, wet, gray SAND (SP); trace silt, trace fine sand, poorly graded medium to coarse sand	15

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Hand icon Grab Sample
- 3.25" OD D&M Split-Spoon Ring Sampler

PID - Photoionization Detector (Headspace Measurement)

- ▼ Static Water Level
- ▽ Water Level (ATD)

Logged by: MV

Approved by: SJG

Figure No. A- 94



### Boring Log

Project Number  
110207

Boring Number  
GF-B-11

Sheet  
2 of 2

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Hollow Stem Auger Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Splitspoon Start/Finish Date 5/24/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
		S-6		0	3 9 34		Becomes trace gravel (1" thick layer of wood chips)	
25		S-7		0	2 9 12		Becomes trace silt, trace fine sand, and wood fragments	25
30							Bottom of boring at 26.5' BGS	30
35								35

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MV**

No Recovery

Static Water Level

Approved by: **SJG**

Grab Sample

Water Level (ATD)

3.25" OD D&M Split-Spoon

Figure No. **A- 94**

Ring Sampler





# Boring Log

Project Number  
110207

Boring Number  
GF-B-12

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 6/28/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
						Asphalt debris		
						Very moist, brown orange, mottled slightly silty gravelly SAND (SP); poorly graded fine to medium sand		
		CC-1	GF-B-12-1-2.5					
5	Backfilled with medium bentonite chips			0				5
				0		Becomes wet		
		CC-2	GF-B-12-7.5-9					
				0		Wet, dark gray, very sandy SILT (ML); poorly graded fine sand, rapid dilatancy		
10				0		Wood		10
						Bottom of boring at 10' BGS		
15								15

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: AET

Approved by: SJG

Figure No. A- 95



# Boring Log

Project Number  
110207

Boring Number  
GF-B-13

Sheet  
1 of 2

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Hollow Stem Auger Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Splitspoon Start/Finish Date 5/24/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
							Loose, moist, gray-brown, slightly silty, gravelly, SAND (SW); well-graded fine to coarse sand, angular gravel	
		Hand icon	GF-B-13-1-2.5					
		Static Water Level symbol						
		S-1		0	2 2 4		Becomes wet	
5	Backfilled with medium bentonite chips	S-2		0	1 1 1		Becomes trace gravel	5
		S-3		0	1 3 5		Loose, wet, SAND (SP); trace coarse sand, poorly graded fine to medium sand, shell fragments	
10		S-4	GF-B-13-10-11.5	0	4 5 4		Loose, wet SAND (SW); well-graded fine to coarse sand and shell fragments	10
		S-5		0	3 2 2		Becomes trace coarse sand	
							Becomes very loose with wood chips from 12 to 13'	
15		S-6		0	0 1 1		Very loose, wet, slightly silty SAND (SP); trace coarse sand, poorly sorted fine to medium sand, shell fragments, slight sulfide odor	15

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Grab Sample
- 3.25" OD D&M Split-Spoon Ring Sampler

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **MV**

Approved by: **SJG**

Figure No. **A- 96**



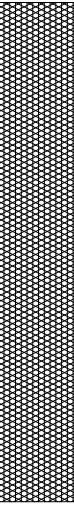
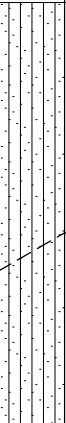
### Boring Log

Project Number  
110207

Boring Number  
GF-B-13

Sheet  
2 of 2

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Hollow Stem Auger Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Splitspoon Start/Finish Date 5/24/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
		S-7		0				
25		S-8		0			Very dense, wet, gray, very silty, SAND (SM); trace coarse sand, poorly graded fine to medium sand, diamict fabric	25
							Bottom of boring at 25.5' BGS	
30								30
35								35

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Grab Sample
- 3.25" OD D&M Split-Spoon
- Ring Sampler

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **MV**

Approved by: **SJG**

Figure No. **A- 96**



# Boring Log

Project Number  
110207

Boring Number  
GF-B-14

Sheet  
1 of 2

Project Name: Kimberly Clark

Ground Surface Elev. \_\_\_\_\_

Location: Everett, WA

Driller/Method: Cascade Drilling / Hollow Stem Auger

Depth to Water (ft BGS) \_\_\_\_\_

Sampling Method: Splitspoon

Start/Finish Date 5/23/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
							Very loose, slightly moist, brown, slightly gravelly SAND (SW-SM); petroleum-like odor	
		S-1	GF-B-14-1-2.5	0	1 1			
		S-2		0	2 4 2		Becomes wet, gray, poorly sorted fine sand, faint petroleum-like odor, and trace shells	
5	Backfilled with medium bentonite chips	S-3		0	1 2 3			5
		S-4	GF-B-14-7.5-9	0	1 2 2		Very loose, wet, gray SAND (SW); trace fine gravel, trace silt, well-graded fine to coarse sand	
10		S-5		0	3 8 15		Becomes medium dense	10
15		S-6		0	5 10 15			15

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MV**

- No Recovery
- 3.25" OD D&M Split-Spoon
- Ring Sampler

Static Water Level

Approved by: **SJG**

Water Level (ATD)

Figure No. **A- 97**



# Boring Log

Project Number  
110207

Boring Number  
GF-B-14

Sheet  
2 of 2

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Hollow Stem Auger Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Splitspoon Start/Finish Date 5/23/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
		S-7		0	3 18 30		Becomes dense	
25		S-8		0	8 16 32		Dense, wet, gray SAND (SP); trace silt, poorly graded medium to coarse sand	25
		S-9		0	0 0 0		0.5 inch bed organic SILT (ML); woody debris Very soft, wet, brown, SILT (ML); slight hydrogen sulfide odor	30
35							Bottom of boring at 31.5' BGS	35

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- 3.25" OD D&M Split-Spoon
- Ring Sampler

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **MV**

Approved by: **SJG**

Figure No. **A- 97**



# Boring Log

Project Number  
110207

Boring Number  
GF-B-15A

Sheet  
1 of 2

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Hollow Stem Auger Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Splitspoon Start/Finish Date 5/23/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
							Medium dense, wet, brown, slightly gravelly SAND (SW-SM); trace building debris	
		S-1	GF-B-15A-1-2.5	0	5 7 8			
		S-2		0	3 5 6			
5	Backfilled with medium bentonite chips	S-3		0	1 1 1		Becomes very loose	5
		S-4	GF-B-15A-7.5-9	0	3 2 1			
10	▼	S-5	GF-B-15A-10-11.5	0	2 3 3		Becomes loose, wet, and gray to black	10
		S-6	GF-B-15A-15-16.5	0	4 9 7		Medium dense, wet, black, slightly silty GRAVEL (GM);	15
							Very loose, wet, dark gray to black, slightly silty SAND (SW-SM); trace shell fragments	

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- ◐ 3.25" OD D&M Split-Spoon
- ◑ Ring Sampler

PID - Photoionization Detector (Headspace Measurement)

- ▼ Static Water Level
- ▽ Water Level (ATD)

Logged by: **MV**

Approved by: **SJG**

Figure No. **A- 98**



### Boring Log

Project Number  
110207

Boring Number  
GF-B-15A

Sheet  
2 of 2

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Hollow Stem Auger Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Splitspoon Start/Finish Date 5/23/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
		S-7		0	1 1 3			
25		S-8	GF-B-15A-25-26.5	0	2 3 5		Becomes dark gray, trace gravel, well-graded fine to coarse sand	25
30		S-9		0	5 15 40		Very dense, wet, gray, slightly gravelly SAND (SW); trace silt, trace shell fragments	30
35							Bottom of boring at 31.5 BGS	35

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- 3.25" OD D&M Split-Spoon
- Ring Sampler

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **MV**

Approved by: **SJG**

Figure No. **A- 98**



# Boring Log

Project Number  
110207

Boring Number  
HB-B-01

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 9/7/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
						Asphalt		
						Concrete		
	3/8" hydrated bentonite chips	CC-1	HB-B-01-2-3			Moist, dark brown, slightly gravelly, slightly silty SAND (SP); fine to medium sand		
			HB-B-01-3-4			Moist to wet, black, gravelly SAND (SP); poorly graded fine to medium sand		
5	▽					No recovery		5
		CC-2	HB-B-01-6-7			Wet, dark brown to black, slightly gravelly SAND (SP); poorly graded fine to medium sand		
						Brick		
						Wet, black SAND (SP); trace gravel		
10						No recovery		10
						Bottom of boring at 10' BGS		
15								15
20								20
25								25

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET/MAR

○ No Recovery

▼ Static Water Level

Approved by: SJG

▮ Continuous Core

▽ Water Level (ATD)

Figure No. A- 99





# Boring Log

Project Number  
110207

Boring Number  
HB-B-02

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 9/7/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	3/8" hydrated bentonite chips	CC-1	HB-B-02-1-1.5	0		Concrete		
						Void space		
				0		Moist, brown, slightly silty, gravelly SAND (SP-SM)		
						No recovery		
5			HB-B-02-5-6	0		Moist, brown, gravelly SAND (SP); trace silt		5
				0		Becomes wet		
			HB-B-02-7-8	0		Becomes brown to black		
						No recovery		
10						Wet, dark brown to black SAND (SP); trace silt, trace gravel		10
15						Bottom of boring at 15' BGS		15
20								20
25								25

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET/MAR

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 100



# Boring Log

Project Number  
110207

Boring Number  
HB-B-03

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 9/6/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	3/8" hydrated bentonite chips	CC-1	HB-B-02-1-1.5	0		Concrete		
						Void space		
					0		Moist, brown SAND (SP); trace gravel, fine sand	
							Becomes fine to medium sand	
5							No recovery	
					0		Wet, brown SAND (SP); fine to medium sand, trace gravel	5
					0		Wood 5.5' to 6'	
					0		Wet, brown SAND (SP); fine to medium sand, trace gravel	
10							No recovery	10
							Bottom of boring at 10' BGS	

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET/MAR

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 101



# Boring Log

Project Number  
110207

Boring Number  
HB-B04

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/18/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
							Recycled demo debris	
5	Hydrated bentonite chip backfill	CC-01					No recovery	5
			HB-B4-5.5	0				
			HB-B4-6.5	0			Stiff, wet, brown, slightly gravelly, sandy SILT (ML); fine gravel, medium to coarse sand	
							Loose, moist, light brown, SAND (SW); fine to coarse sand	
			HB-B4-7.5	0			Medium dense, moist, black sandy, gravelly, SILT (ML)	
							No recovery	
10							Medium dense, wet, black, silty SAND (SM); fine to very coarse sand	10
							Stiff, moist, black and brown ORGANIC SILT (OL)	
							Medium dense, wet, black silty SAND (SM); fine to coarse sand	
							No recovery	
15							Bottom of boring 15 feet Note: Density and consistency was estimated based on sample observations.	15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AHP

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 102



# Boring Log

Project Number  
110207

Boring Number  
HB-B05

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/18/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
1	Hydrated bentonite chip backfill	CC-01				Recycled demo debris		1
2								2
3								3
4								4
5						No recovery		5
6		CC-02				Stiff, moist, black, slightly gravelly, sandy SILT (ML); fine to medium sand, coarse subangular gravel		6
7			HB-B5-7					7
8							Bottom of boring 8 feet Note: Density and consistency was estimated based on sample observations.	8
9								9

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AHP

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 103



# Boring Log

Project Number  
110207

Boring Number  
HB-B06

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/18/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
						Recycled demo debris		
		CC-01			0	Medium dense, moist, brown, sandy GRAVEL (GP); fine to medium subangular gravel		
					0	Medium dense, slightly moist, brown, slightly gravelly, silty SAND (SM); fine to medium sand		
						No recovery		
5	Hydrated bentonite chip backfill							5
		CC-02			0	Medium dense, slightly moist, brown, slightly gravelly, silty SAND (SM); fine to medium sand		
					0	Crushed concrete		
					0	Stiff, moist, dark brown, SILT and GRAVEL (GM-ML); coarse gravel		
					0	Soft, wet, black, SILT (ML)		
					0	Medium dense, wet, brown, silty SAND (SM)		
					0	No recovery		
10								10
			HB-B6-11		0	Soft, wet, brown, gravelly, silty SAND (SM); medium sand, fine gravel		
					0			
					0			
		CC-03	HB-B6-12.5		0	Medium dense, wet, gray slightly silty SAND (SW-SM); fine to coarse sand, sheen		
				69.4	2.2			
				2.3				
				1.4		Medium stiff, wet, dark brown, ORGANIC SILT (OL)		
				1.3		Medium dense, wet, brown, SAND (SP); medium sand		
15			HB-B6-15			Bottom of boring 15 feet Note: Density and consistency was estimated based on sample observations.		15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AHP

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 104



# Boring Log

Project Number  
110207

Boring Number  
HB-MW-01

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 9/7/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	8" flush-mount monument and thermos cap Concrete surface seal					Asphalt		
			HB-MW-01-1.5-2	0		Moist, brown, slightly gravelly, slightly silty SAND (SP-SM)		
	3/8" hydrated bentonite chips	CC-1				No recovery		
	2/12 silica sand filter pack		HB-MW-01-3-3.5					
5						Moist, brown, slightly gravelly SAND (SP); with brick debris		5
	2" diameter PVC pre-packed .001 slot screen	CC-2	HB-MW-01-6-7	0		Wet, black, slightly silty, gravelly SAND (SP-SM); fine to medium sand		
				0		No recovery		
10						Wet, dark gray SAND (SP); fine to medium sand, trace gravel		10
		CC-3		1.4				
				1.9		Wood		
				0.4		Wet, gray, slightly gravelly SAND (SP); fine to medium sand		
15	Threaded cap			0				15
						Bottom of boring at 15' BGS		
20								20
25								25

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: AET/MAR

Approved by: SJG

Figure No. A- 105



# Boring Log

Project Number  
110207

Boring Number  
HB-MW-01R

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 20.42

Location: Everett, WA

Driller/Method: Holt / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core 3"

Start/Finish Date 11/11/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
20	8" Flush-mount monument and thermos cap Concrete surface seal 0' to 1'	CC-1				Recycled demo debris		
5	3/8" Hydrated bentonite chips 1' to 5'	CC-1				No recovery		5
15	11/11/2013	CC-2	HB-MW-1R-7	0 0 0 0		Slightly moist, dark brown, silty, SAND (SM); medium to coarse, subangular sand		
10	10/20 pre-pack Silica sand filter pack 5' to 16.25'	CC-2				Wet at 7.5 feet		
10		CC-3	HB-MW-1R-12	0 0 0 0 0 0		Slightly moist, brown, silty, gravelly, SAND (SM)		10
10		CC-3				Wet, brown, gravelly, very silty, SAND (SM); fine to medium sand		
10		CC-3				Wet, dark gray, silty, SAND (SM); medium sand, petroleum odor, sheen		
10		CC-3				Moist, brown, organic SILT (OL) with wood debris		
15	2" Diameter PVC pre-packed 10-slot screen 6' to 16' Threaded cap	CC-4	HB-MW-1R-17			No recovery		
15		CC-4				Wet, gray, gravelly, silty, SAND (SM); fine to coarse sand		15
15		CC-4				Slight petroleum odor at 15.5 feet		
20	Slough 16.25' to 20'	CC-4				No recovery		
20						Bottom of boring at 20 feet		20

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **AHP**

Approved by: **SJG**

Figure No. **A- 106**



### Boring Log

Project Number  
110207

Boring Number  
HW-B-01

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 6/29/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	Backfilled with medium bentonite chips	CC-1	HW-B-1-0-1	0.3		Asphalt	Slightly moist, dark brown and brown mottled, slightly silty, very gravelly SAND (SP-SM); fine sand	
0								
0			HW-B-1-3-4	0			Moist, brown-orange mottled, slightly gravelly SAND (SP); fine to medium sand	
0				0		No recovery		5
0		CC-2	HW-B-1-6-7	0			Wet, dark gray, sandy SILT (ML); trace gravel, fine sand	
0				0				
0				0				
0		CC-3		0			Wet, dark gray, silty, very gravelly SAND (SM); fine to coarse gravel	
0				0			Wet, dark gray, slightly gravelly, slightly sandy SILT (ML); trace fibrous organics	
0				0			Bottom of boring at 15' BGS	15

Sampler Type:  No Recovery  Continuous Core  
 PID - Photoionization Detector (Headspace Measurement)  
 ▼ Static Water Level  
 ▽ Water Level (ATD)  
 Logged by: AET  
 Approved by: SJG  
 Figure No. A- 107

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014





# Boring Log

Project Number  
110207

Boring Number  
HW-B-02

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 6/29/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)		
	Backfilled with medium bentonite chips	CC-1	HW-B-2-0-1			Wood chips				
					0		Very moist, gray SAND (SW); trace gravel, fine to coarse sand			
					0					
					HW-B-2-3-4			Moist, dark brown, gravelly, sandy SILT (ML)		
						0		Wet, gray, slightly gravelly SAND (SW); fine to coarse sand, fine gravel		
5						0		Wet, dark brown, sandy SILT (ML)	5	
					HW-B-2-6-7			Wet, gray, gravelly SAND (SW); fine to coarse sand, fine gravel		
						0		Wet, gray, gravelly, sandy SILT (ML); scattered organic- wood- debris		
						0				
						0		Slightly clayey		
10						0				10
						0				
						0				
15						0			Bottom of boring at 15' BGS	15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 108



# Boring Log

Project Number  
110207

Boring Number  
HW-B-03

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 9/6/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
5	3/8" hydrated bentonite chips	CC-1	HW-B-3-0-1	0		[Material Type: Moist, dark brown, gravelly, silty SAND (SP); numerous organics]	Moist, dark brown, gravelly, silty SAND (SP); numerous organics	5
				0			Becomes gray	
				0				
5		CC-2	HW-B-3-3-4	0		[Material Type: Becomes dark gray]	Becomes dark gray	5
				0			Becomes gray	
10	[Water Level (ATD) symbol]	CC-3	HW-B-3-6-7			[Material Type: No recovery]	No recovery	10
10						[Material Type: Very moist to wet, gray, slightly clayey, gravelly, sandy SILT (ML); fine sand]	Very moist to wet, gray, slightly clayey, gravelly, sandy SILT (ML); fine sand	10
10						[Material Type: Wet, black, slightly silty, gravelly SAND (SP-SM)]	Wet, black, slightly silty, gravelly SAND (SP-SM)	10
10						[Material Type: No recovery]	No recovery	10
10						[Material Type: Bottom of boring at 11' BGS]	Bottom of boring at 11' BGS	10
15								15
20								20
25								25

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET/MAR

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 109



# Boring Log

Project Number  
110207

Boring Number  
HW-B-04

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. \_\_\_\_\_

Location: Everett, WA

Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access

Depth to Water (ft BGS) \_\_\_\_\_

Sampling Method: Continuous Core

Start/Finish Date 9/6/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	3/8" hydrated bentonite chips	CC-1	HW-B-04-0-1	0			Moist, dark gray, gravelly, sandy SILT (ML); numerous organics	
0							Wet, gray SAND (SW); poorly graded fine to coarse sand	
0							Pea gravel	
0				HW-B-04-3.5-4				Moist, gray, slightly gravelly, sandy SILT (ML)
5		CC-2		0				5
							Cobbles	
							No recovery	
10		CC-3					Moist, gray, slightly gravelly, sandy SILT (ML)	10
							No recovery	
15							Bottom of boring at 13' BGS	15
20								20
25								25

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET/MAR

○ No Recovery

▼ Static Water Level

Approved by: SJG

█ Continuous Core

▽ Water Level (ATD)

Figure No. A- 110



# Boring Log

Project Number  
110207

Boring Number  
HW-MW-01

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. 15.5  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 6/29/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
15	8" Flush-mount monument and thermos cap						Wood chips	1
14	Concrete surface seal 0' to 2'						Moist, gray, brown, gravelly, sandy SILT (ML); scattered organics	2
13	3/8" Hydrated bentonite chips 2' to 3'	CC-1	HW-MW-1-0-1	0				3
12	2/12 pre-pack Silica sand filter pack 3' to 14'		HW-MW-1-3-4	0				4
11				0				5
10			HW-MW-1-6-7	0				6
9				0				7
8		CC-2		0				8
7	4" Diameter PVC pre-packed .001 slot screen 4' to 14'			0				9
6				0			Clayey at 9' 4" of back gravel at 9.5'	10
5				0				11
4				0				12
3		CC-3		0				13
2	Threaded cap			0				14
1				0			Refusal at 14'; bottom of boring at 14' BGS	15
0								16
-1								17
-2								18
-3								19
-4								20
-5								21
-6								22
-7								23
-8								24
-9								25
-10								26
-11								27
-12								28
-13								29
-14								

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: AET

Approved by: SJG

Figure No. A- 111



# Boring Log

Project Number  
110207

Boring Number  
LP-MW-01

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 17.65

Location: Everett, WA

Driller/Method: Holt / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core 3"

Start/Finish Date 10/24/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
15	8" Flush-mount monument and thermos cap Concrete surface seal 0' to 1' 3/8" Hydrated bentonite chips 1' to 2'	CC-1				Recycled demo debris		
5	20/40 pre-pack Silica sand filter pack 2' to 13.25'	CC-2	LP-MW-1-5.5			No Recovery		5
10	2" Diameter PVC pre-packed 10-slot screen 3' to 13'	CC-3	LP-MW-1-12			Wet, black, gravelly, ORGANIC SILT (OL); burnt wood		
10	Threaded cap	CC-3	LP-MW-1-12			No Recovery		
5	Slough 13.25' to 20'	CC-3	LP-MW-1-12			Wet, dark gray, SAND (SP); fine to medium sand		10
15		CC-4	LP-MW-1-14.5			Wet, black, silty, GRAVEL (GM); burnt odor		
15		CC-4	LP-MW-1-14.5			Wet, gray, sandy, SILT (ML); trace gravel		
15		CC-4	LP-MW-1-14.5			No Recovery		15
15		CC-4	LP-MW-1-14.5			Wet, gray, slightly gravelly, sandy, SILT (ML)		
15		CC-4	LP-MW-1-14.5			No Recovery		
20		CC-4	LP-MW-1-14.5			Bottom of boring at 20 feet		20

Sampler Type:   
 ○ No Recovery   
 ▬ Continuous Core

PID - Photoionization Detector (Headspace Measurement)   
 ▼ Static Water Level   
 ▽ Water Level (ATD)

Logged by: AET, AHP   
 Approved by: SJG   
 Figure No. A- 112

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014



# Boring Log

Project Number  
110207

Boring Number  
LP-MW-02

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 18.00

Location: Everett, WA

Driller/Method: Holt / Direct Push Probe

Depth to Water (ft BGS) \_\_\_\_\_

Sampling Method: Continuous Core 3"

Start/Finish Date 10/24/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	8" Flush-mount monument and thermos cap Concrete surface seal 0' to 1'			0		Asphalt pavement		
0				0		Crushed rock		
0				0		Wood chips		
15	3/8" Hydrated bentonite chips 1' to 7'	CC-1		0		No Recovery		5
5				0		Wood chips		
10		CC-2	LP-MW-2-7	0		Moist, mottled black and red and gray and brown, gravelly, silty, SAND (SM) with charcoal, brick debris, crushed rocks		
10				0				
10	10/24/2013		LP-MW-2-10	0		Moist, mottled green gray and gray, slightly sandy, SILT (ML); trace gravel		
5	10/20 pre-pack Silica sand filter pack 7' to 18.25'	CC-3		0		Wet, gray, sandy, SILT (ML)		
5				0		Wet, gray, SAND (SP); fine to medium sand, trace silt		
15	2" Diameter PVC pre-packed 10-slot screen 8' to 18'		LP-MW-2-16			No Recovery		15
15						Wet, gray, sandy, SILT (ML); fine to medium sand, trace gravel		
0	Threaded cap	CC-4				No Recovery		
20	Slough 18.25' to 20'							
20							Bottom of boring at 20 feet	20

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **AET**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 113**



# Boring Log

Project Number  
110207

Boring Number  
MW-01 (DP-15)

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. 14.41  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS)  
 Sampling Method: Continuous Core Start/Finish Date 2/15/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
14	5" Flush-mount monument and thermos cap					Asphalt, gravel		1
13	Concrete surface seal 0' to 2'			0		Very moist, brown to gray, silty, sandy GRAVEL (GM); poorly graded fine-to-medium, subrounded gravel, 2" bed of charred organics at 1'		2
12	3/8" Hydrated bentonite chips 2" to 2.5"	CC-1	DP-15-3-4	0		Very moist, brown, gravelly SAND (SP); poorly graded fine-to-medium sand		3
11	2/12 Silica sand filter pack 2.5' to 13'			0				4
10				0		Very moist, brown, very silty SAND (SM); fine sand		5
9				0		Very moist, brown SAND (SP); poorly graded fine-to-medium sand		6
8	1" Diameter PVC pre-packed .001 slot screen 3' to 13'	CC-2	DP-15-6.5-7.5	0		Fill debris from 4.75' to 6.5': charred wood, nails, ceramic, black and orange debris		7
7				0				8
6				0		Wet, gray, very sandy GRAVEL (GP); fine, rounded gravel		9
5				0		Wet, gray SAND (SP); poorly graded fine-to-medium sand		10
4				0				11
3				0		Wet, gray, sandy SILT (ML)		12
2		CC-3		0		Wet, gray SAND (SP); poorly graded fine-to-medium sand, frequent silt laminae		13
1	Threaded cap			0				14
0	Slough			0				15
-1				0			Bottom of boring at 15' BGS	16
-2								17
-3								18
-4								19
-5								20
-6								21
-7								22
-8								23
-9								24
-10								25
-11								26
-12								27
-13								28
-14								29
-15								

Sampler Type:  No Recovery       Continuous Core  
 PID - Photoionization Detector (Headspace Measurement)      Static Water Level (indicated by inverted triangle symbol)      Water Level (ATD) (indicated by inverted triangle symbol with horizontal line)  
 Logged by: **MAR**  
 Approved by: **SJG**  
 Figure No. **A- 114**

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014



# Boring Log

Project Number  
110207

Boring Number  
MW-02 (DP-14)

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. 13.62  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS)  
 Sampling Method: Continuous Core Start/Finish Date 2/15/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
13	5" Flush-mount monument and thermos cap			0		Asphalt		1
12	Concrete surface seal 0' to 2'			0		Very moist, gray to brown, gravelly SAND (SP); poorly graded fine-to-medium sand		2
11	3/8" Hydrated bentonite chips 2" to 2.5"	CC-1	DP-14-3-4	0				3
10	2/12 Silica sand filter pack 2.5' to 13'			0				4
9				0		Landfill debris: brick, wood, plastic		5
8				0		Wet, brown to gray, slightly sandy, very silty GRAVEL (GM); poorly graded fine-to- medium subrounded gravel, debris: brick, plastic, tile/ceramics, wood		6
7				0				7
6	1" Diameter PVC pre-packed .001 slot screen 3' to 13'	CC-2		0				8
5			DP-14-9-10	0				9
4				0				10
3				0				11
2				0				12
1		CC-3		0		Black from 12' to 15'		13
0	Threaded cap			0				14
-1	Slough			0				15
-2				0			Bottom of boring at 15' BGS	16
-3								17
-4								18
-5								19
-6								20
-7								21
-8								22
-9								23
-10								24
-11								25
-12								26
-13								27
-14								28
-15								29
-16								

Sampler Type:  No Recovery  Continuous Core  
 PID - Photoionization Detector (Headspace Measurement)  
 Static Water Level (indicated by inverted triangle symbol at 6' depth)  
 Water Level (ATD) (indicated by inverted triangle symbol at 6' depth)  
 Logged by: **MAR**  
 Approved by: **SJG**  
 Figure No. **A- 115**

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014





# Boring Log

Project Number  
110207

Boring Number  
MW-03 (DP-09)

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. 15.45  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS)  
 Sampling Method: Continuous Core Start/Finish Date 2/15/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
15	5" Flush-mount monument and thermos cap					Asphalt		15
14	Concrete surface seal 0' to 2'			0		V. moist, gray, sandy, silty GRAVEL (GP); poorly graded fine-to-medium subrounded gravel		14
13	3/8" Hydrated bentonite chips 2' to 2.5"	CC-1		0		Wet, gray, slightly gravelly SAND (SP); poorly graded fine-to-medium sand		13
12	2/12 Silica sand filter pack 2.5' to 13'		DP-9-3.5-4.5	0				12
11						Wet, dark gray, silty SAND (SM), fine sand, numerous shell fragments		11
10				5.4				10
9		CC-2				Wet, gray, SAND (SP); poorly graded fine-to-medium sand		9
8	1" Diameter PVC pre-packed .001 slot screen 3' to 13'		DP-9-7.5-8.5					8
7								7
6				25.9				6
5								5
4				20.3				4
3		CC-3						3
2	Threaded cap		DP-9-13-14					2
1	Slough			12.3		Wet, gray, silty SAND (SM); fine sand		1
0						Wet, gray, slightly gravelly SAND (SP); poorly graded fine-to-medium sand		0
-1							Bottom of boring at 15' BGS	-1
-2								-2
-3								-3
-4								-4
-5								-5
-6								-6
-7								-7
-8								-8
-9								-9
-10								-10
-11								-11
-12								-12
-13								-13
-14								-14

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MAR**

No Recovery

Static Water Level

Approved by: **SJG**

Continuous Core

Water Level (ATD)

Figure No. **A- 116**



# Boring Log

Project Number  
110207

Boring Number  
MW-04 (DP-07)

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 15.53

Location: Everett, WA

Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access

Depth to Water (ft BGS) \_\_\_\_\_

Sampling Method: Continuous Core

Start/Finish Date 2/15/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
15	5" Flush-mount monument and thermos cap			0		Asphalt		1
14	Concrete surface seal 0' to 2'			0		Moist, gray, slightly silty, sandy GRAVEL (GP); fine subangular gravel		2
13	3/8" Hydrated bentonite chips 2" to 2.5"	CC-1		0		Wet, gray, sandy SILT (ML)		3
12	2/12 Silica sand filter pack 2.5' to 13'		DP-7-4-5	0		Moist, gray, slightly silty, sandy GRAVEL (GP); fine subangular gravel		4
11				0.1		Wet, gray, sandy SILT (ML)		5
10				0.1				6
9				0.1				7
8	1" Diameter PVC pre-packed .001 slot screen 3' to 13'	CC-2	DP-7-7-8	0.1				8
7				0.1				9
6				0.1		Wet, dark gray SAND (SP); poorly graded fine-to-medium sand		10
5				0				11
4				0				12
3		CC-3		0		Wet, dark gray SILT (ML)		13
2	Threaded cap			0		Wet, dark gray to dark brown, slightly silty SAND (SP); poorly graded fine-to-medium sand, numerous organics		14
1	Slough			0				15
0							Bottom of boring at 15' BGS	16
-1								17
-2								18
-3								19
-4								20
-5								21
-6								22
-7								23
-8								24
-9								25
-10								26
-11								27
-12								28
-13								29
-14								

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MAR**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 117**



# Boring Log

Project Number  
110207

Boring Number  
MW-05 (DP-16)

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. 13.69  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS)  
 Sampling Method: Continuous Core Start/Finish Date 2/16/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
13	5" Flush-mount monument and thermos cap			0			Grass over topsoil	1
12	Concrete surface seal 0' to 2'			0			Very moist, brown to gray, sandy SILT (ML); fine sand	2
11	3/8" Hydrated bentonite chips 2" to 2.5"	CC-1		0				
10	2/12 Silica sand filter pack 2.5' to 13'		DP-7-4-5	0			Very moist, dark gray, sandy, gravelly SILT (ML)	3
9				0.1				
8	1" Diameter PVC pre-packed .001 slot screen 3' to 13'			0.1				5
7		CC-2	DP-7-7-8	0.1				
6					0.1			
5				0.1				6
4				0.1				7
3				0.1				8
2				0				9
1				0				10
0				0				11
-1	Threaded cap	CC-3		0			Wet, organic SILT (OL); numerous wood organics	12
-2	Slough			0				13
-3				0			Wet, dark gray SAND (SP); poorly graded fine-to-medium sand, numerous shells and wood debris	14
-4				0				15
-5							Bottom of boring at 15' BGS	16
-6								17
-7								18
-8								19
-9								20
-10								21
-11								22
-12								23
-13								24
-14								25
-15								26
-16								27
-17								28
-18								29

Sampler Type:  No Recovery       Continuous Core  
 PID - Photoionization Detector (Headspace Measurement)      Static Water Level (indicated by inverted triangle symbol)      Water Level (ATD) (indicated by inverted triangle symbol with horizontal line)  
 Logged by: **MAR**  
 Approved by: **SJG**  
 Figure No. **A- 118**

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014



# Boring Log

Project Number  
110207

Boring Number  
MW-06 (DP-17)

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 20.67

Location: Everett, WA

Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access

Depth to Water (ft BGS)

Sampling Method: Continuous Core

Start/Finish Date 2/16/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
20	5" Flush-mount monument and thermos cap			0		Asphalt		
19	Concrete surface seal 0' to 2'			0		Concrete		1
18		CC-1		0		Moist, dark gray, sandy GRAVEL (GP); poorly graded fine-to-medium subrounded to angular gravel		2
17			DP-17-4-5	0				3
16				0		Moist, dark gray, SAND (SP); fine sand, occasional shell fragments		4
15				0.1				5
14	3/8" Hydrated bentonite chips 2' to 12'	CC-2		0.1				6
13				0.1				7
12				0.1		Concrete rubble		8
11				0		Moist, gray, slightly gravelly, slightly sandy SILT (ML); fine sand		9
10				0		Moist, gray-green CLAY (CL)		10
9				0		Moist, gray, slightly gravelly, sandy SILT (ML); fine sand		11
8	2/12 Silica sand filter pack 12' to 24'	CC-3		0				12
7				0				13
6				0				14
5				0				15
4				0			Wet from 16' to 18'	16
3		CC-4		0			Wood debris at 17.5'	17
2	1" Diameter PVC pre-packed .001 slot screen 14' to 24'			0				18
1				0				19
0				0			Wet, gray to dark gray, gravelly SILT (ML); no odor	20
-1			DP-17-22-23	0				21
-2		CC-5		0				22
-3				0				23
-4	Threaded cap Slough			0				24
-5							Bottom of boring at 25' BGS	25
-6								26
-7								27
-8								28
-9								29

Sampler Type:  No Recovery       Continuous Core  
 PID - Photoionization Detector (Headspace Measurement)      Static Water Level (▼)      Water Level (ATD) (▽)  
 Logged by: **MAR**  
 Approved by: **SJG**  
 Figure No. **A- 119**

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014



# Boring Log

Project Number  
110207

Boring Number  
NRP-B-01

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 6/1/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)		
							Grass over topsoil			
	Backfilled with medium bentonite chips	CC-1	NRP-B-1-9-12	0.2			Moist, brown, gravelly, very silty SAND (SM); fine sand			
				0.2						
				0.2						
				0.2					Moist, gray, gravelly SAND (SP); poorly graded fine-to-medium sand	
5				0.2					Fine sand, no gravel	
				0.2					Poor recovery 5' to 10'	5
				0.3						
				0.3						
				0.3						
				0.3						
10		CC-2		0.3						
		CC-3		0.3			Wet, gray, slightly silty SAND (SP-SM)	10		
	0.3									
	0.3									
	0.3									
	0.3									
	0.3									
	0.3									
	0.3									
	0.3									
	0.3									
15				0.3			Bottom of boring at 15' BGS	15		
20								20		

Sampler Type:  No Recovery       Continuous Core  
 PID - Photoionization Detector (Headspace Measurement)  
 Static Water Level (indicated by inverted triangle symbol)      Water Level (ATD) (indicated by inverted triangle with horizontal line symbol)  
 Logged by: **MAR**  
 Approved by: **SJG**  
 Figure No. **A- 120**

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014



# Boring Log

Project Number  
110207

Boring Number  
NRP-B-02

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 6/1/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	Backfilled with medium bentonite chips	CC-1	NRP-B-2-3-4	1.2		Asphalt		
				1.2		Moist, gray, slightly silty, sandy GRAVEL (GW); poorly graded fine-to-coarse angular gravel		
5				12.7		Moist, gray SAND (SP); fine sand		
		CC-2	NRP-B-2-8-10	47.8		Silt lens at 4.5'		
				61.3				
				16.8				
				21.5				
				26.0			Dark gray, strong petroleum-like odor, moderate metallic/rainbow sheen	
				190.5				
10		CC-3	NRP-B-2-14-15	152.0		Silt and wood 11.5' to 12'		
				89.0				
				446.8				
				397.7				
					353.7			
					360.2			
	356.3							
15				464.3				
				426.8				
				46.5				
				7.3				
				4.6				
20				2.5			Bottom of boring at 15' BGS	15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: MAR

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 121



# Boring Log

Project Number  
110207

Boring Number  
NRP-B-03

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 6/1/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)	
							Grass over topsoil		
	Backfilled with medium bentonite chips	CC-1		0.2		Moist, brown, very gravelly SAND (SW); poorly graded fine-to-coarse sand, subrounded gravel, cobble at 2.5'			
								0.2	
5								0.3	
		CC-2		0.3	0.2	Moist, gray, very gravelly, very silty SAND (SM); fine sand		5	
								0.2	
								0.2	
		CC-3		0	0	Wet, gray, SAND (SP); trace silt and gravel, fine to medium sand		10	
								0	
								0	
							Wood at 14'		
							Silt at 14.75'		
							Bottom of boring at 15' BGS	15	
								20	

NRP-B-3-8.5-9.5



Sampler Type:  No Recovery       Continuous Core  
 PID - Photoionization Detector (Headspace Measurement)      Logged by: **MAR**  
 Static Water Level      Approved by: **SJG**  
 Water Level (ATD)      Figure No. **A- 122**

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014



# Boring Log

Project Number  
110207

Boring Number  
NRP-B-04

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 6/1/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
						Asphalt		
	Backfilled with medium bentonite chips			0.2		Moist, gray, sandy GRAVEL (GW); trace silt, angular, fine to coarse gravel		
		CC-1		0.2				
				0.2				
				0.3				
5				0.3				
		CC-2		0.3				
				0.3				
				0.2				
				0.2				
				0.2				
				0.1		Wet, gray, silty GRAVEL (GM); poorly graded fine-to-coarse angular gravel, faint petroleum-like odor, rainbow sheen 15' to 20'		
				3.4				
				3.6				
		CC-3		4.5				
				6.0				
				5.0				
				3.4				
				3.5				
		CC-4		3.5				
				3.5				
20				3.5		Bottom of boring at 20' BGS		

NRP-B-4-13.5-14.5

Backfilled with medium bentonite chips

Becomes wet, slightly silty

Wet, gray, silty GRAVEL (GM); poorly graded fine-to-coarse angular gravel, faint petroleum-like odor, rainbow sheen 15' to 20'

Bottom of boring at 20' BGS

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: MAR

- No Recovery
- Continuous Core

- Static Water Level
- Water Level (ATD)

Approved by: SJG

Figure No. A- 123





### Boring Log

Project Number  
110207

Boring Number  
NRP-B-05

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 6/1/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	Backfilled with medium bentonite chips	CC-1	NRP-B-5-9-10	0		Asphalt		
0					Moist, gray, slightly sandy GRAVEL (GW); poorly graded fine-to-coarse subangular to subrounded gravel			
0								
0					Refusal at 4.5', moved hole over ~1/2'; Moist, brown to gray, sandy, silty GRAVEL (GM); poorly graded fine-to-coarse angular gravel			
5								
0								
2.0								
2.0								
1.6								
17.0								
10		CC-2		18.3		Wet, gray, slightly silty, gravelly SAND (SP); poorly graded fine-to-medium sand, trace organics: wood; petroleum-like odor, moderate rainbow and bleb sheen		10
10		CC-3		30.6		Wet, gray GRAVEL (GP); fine rounded gravel		
						Refusal at 11', bottom of boring at 11' BGS		

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: MAR

No Recovery

Static Water Level

Approved by: SJG

Continuous Core

Water Level (ATD)

Figure No. A- 124



### Boring Log

Project Number  
110207

Boring Number  
NRP-B-06

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 6/1/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	Backfilled with medium bentonite chips	CC-1		0		Asphalt		
				0		Slightly moist, gray, sandy GRAVEL (GW); poorly graded fine-to-coarse angular gravel		
5				0		Bottom of boring at 4' BGS		5
10								10
15								15
20								20

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MAR**

No Recovery

Static Water Level

Approved by: **SJG**

Continuous Core

Water Level (ATD)

Figure No. **A- 125**



# Boring Log

Project Number  
110207

Boring Number  
NRP-B-07

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 6/1/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)	
	Backfilled with medium bentonite chips	CC-1	NRP-B-7-9-10	0		Asphalt, post-holed to 1' because of utilities			
				0		Moist, brown, silty, sandy GRAVEL (GM); fine angular gravel			
		0			0		Concrete rubble 3.25' to 4'		
5		0			0		Moist, very silty, very sandy GRAVEL (GM); poorly graded fine-to-coarse angular gravel	5	
		6.7		CC-2	10.8		Very moist, gray SAND (SP); poorly graded fine-to-medium sand, strong petroleum-like odor, heavy rainbow and bleb sheen		
		15.1				Numerous organics at 9'			
10					109.8				10
				CC-3	10.8				
		10.7							
		7.1							
		7.1							
		6.8		CC-4	6.8		Wet, dark gray, very silty SAND (SM); fine sand		
15		5.0				Wet, gray, SAND (SP); fine sand, trace organics	15		
		10.1							
		12.1							
		10.1							
		10.1							
20					10.1			Wood at 19.75'	20
					7.1			Bottom of boring at 20' BGS	

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: MAR

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 126



### Boring Log

Project Number  
110207

Boring Number  
NRP-B-08

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 6/1/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	Backfilled with medium bentonite chips	CC-1	NRP-B-8-8.5-9.5	0.3		Asphalt		
				0.3		Moist, gray, slightly sandy GRAVEL (GW); poorly graded fine-to-coarse angular gravel		
				0.3				
				0.3				
5				0.8		Very moist, gray, sandy, very silty GRAVEL (GM); poorly graded fine-to-coarse angular gravel	5	
		CC-2		6.7		Moist, gray, sandy SILT (ML)		
				8.5				
				7.6		Wet, gray, SAND (SP); poorly graded fine-to-medium sand		
				8.5				
10				8.3		Wood at 9.5'	10	
		CC-3		0				
				0		Wet, dark gray SILT (ML)		
				0		Wet, gray, SAND (SP); poorly graded fine-to-medium sand, wood at 13'		
15			0			Refusal at 13.5'; bottom of boring at 13.5' BGS	15	
20			0				20	

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MAR**

No Recovery

Static Water Level

Approved by: **SJG**

Continuous Core

Water Level (ATD)

Figure No. **A- 127**



# Boring Log

Project Number  
110207

Boring Number  
NRP-B-09

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 6/27/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	Backfilled with medium bentonite chips	CC-1	NRP-B-8-0-1	0		Asphalt	Slightly moist, brown-gray, sandy GRAVEL (GP); crushed rock	0
0			NRP-B-8-3-4	0		Moist, dark gray, sandy SILT (ML); fine sand		5
5		CC-2		0				5
10					0		Wood	
10				0		Wet, dark gray SAND (SP); poorly graded fine-to-medium sand	Bottom of boring at 10' BGS	10
15								15
20								20

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET

No Recovery

Static Water Level

Approved by: SJG

Continuous Core

Water Level (ATD)

Figure No. A- 128



# Boring Log

Project Number  
110207

Boring Number  
NRP-B-10

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 6/27/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	Backfilled with medium bentonite chips	CC-1	NRP-B-10-0-1	0		Asphalt	Slightly moist, gray to brown, sandy GRAVEL (GP); crushed rock	0
0								
3			NRP-B-10-3-4	0		Moist, dark gray, sandy SILT (ML); fine sand	Wood debris at 3' and 4.5'	3
4.5				0				4.5
5		CC-2		0				5
10				0		Wood		10
10						Wet, gray SAND (SP); poorly graded fine-to-medium sand	Bottom of boring at 10' BGS	10
20								20

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET

No Recovery

Static Water Level

Approved by: SJG

Continuous Core

Water Level (ATD)

Figure No. A- 129



# Boring Log

Project Number  
110207

Boring Number  
NRP-B-11

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 6/6/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)				
	Backfilled with medium bentonite chips	CC-1	NRP-B-11-0-1	1.5		Asphalt						
						Moist, gray, sandy, silty GRAVEL (GM); crushed rock						
						Moist, dark gray SAND (SP)						
						NRP-B-11-3-4	Moist, gray, slightly sandy CLAY (CL)					
5												
						CC-2				Wood		
										Wet, gray, SAND (SP); poorly graded fine-to-medium sand		
10										Bottom of boring at 10' BGS		
15												
20												

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MAR**

No Recovery

Static Water Level

Approved by: **SJG**

Continuous Core

Water Level (ATD)

Figure No. **A- 130**



# Boring Log

Project Number  
110207

Boring Number  
NRP-B-12

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 6/6/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	Backfilled with medium bentonite chips	CC-1	NRP-B-12-0-1	2.0		Asphalt		
					0.5		Moist, gray, sandy GRAVEL (GP); crushed rock	
				NRP-B-12-3-4	0		Moist, gray, very silty SAND (SM); fine sand	
5					0		Moist, gray, slightly sandy SILT (ML); numerous organics, wood	5
		CC-2		0				
10						Refusal at 7.5'; bottom of boring at 7.5' BGS	10	
15							15	
20							20	

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MAR**

No Recovery

Static Water Level

Approved by: **SJG**

Continuous Core

Water Level (ATD)

Figure No. **A- 131**





# Boring Log

Project Number  
110207

Boring Number  
NRP-B-13

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 6/6/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	Backfilled with medium bentonite chips	CC-1	NRP-B-13-0-1	1.5		Asphalt		
							Moist, gray, sandy GRAVEL (GP); crushed rock	
					0		Moist, gray SAND (SP); fine sand	
				NRP-B-13-3-4	0		Moist, gray SILT (ML)	
					0		Wood	
5					0		Wet. gray SAND (SP); poorly graded fine-to-medium sand	5
			CC-2		0			
					0			
					0			
10					0		Bottom of boring at 10' BGS	10
15								15
20								20

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MAR**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 132**



# Boring Log

Project Number  
110207

Boring Number  
NRP-B-14

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 6/27/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	Backfilled with medium bentonite chips	CC-1	NRP-B-14-0-1	0		Asphalt	Slightly moist, gray, sandy gravel (GP); crushed rock	
0								
0			NRP-B-14-3-4	0		Moist, dark gray, sandy SILT (ML)		
0				0				
5				0				5
0		CC-2		0		Wet, black/brown wood debris		
0				0				
0				0		Wet, gray SAND (SP); poorly graded fine-to-medium sand		
0				0				
10				0			Bottom of boring at 10' BGS	10
15								15
20								20

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET

No Recovery

Static Water Level

Approved by: SJG

Continuous Core

Water Level (ATD)

Figure No. A- 133



# Boring Log

Project Number  
110207

Boring Number  
NRP-B-15

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 6/6/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	Backfilled with medium bentonite chips	CC-1	NRP-B-15-0-1	2.5		Asphalt		
				0.5		Moist, light gray GRAVEL (GP); crushed rock		
			NRP-B-15-3-4	0.5		Moist, dark gray, very silty SAND (SM); fine sand		
5				0.4				5
		CC-2		0		Wet, gray sandy SILT (ML)		
				0				
				0				
				0		Wet, dark brown PEAT (PT)		
10				0		Bottom of boring at 10' BGS		10
15								15
20								20

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MAR**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 134**



# Boring Log

Project Number  
110207

Boring Number  
NRP-B-16

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 6/27/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	Backfilled with medium bentonite chips	CC-1	NRP-B-15-0-1	2.5		Asphalt, crushed rock and gravel	0	
0.5					Moist, dark gray, slightly sandy SILT (ML)	0.5		
0.5			NRP-B-15-3-4	0.5			0.5	
0.4				0.4			0.4	
0.4				0		2" of gravel at 6'	0.4	
0				0		Wet, dark gray, silty CLAY (CL)	0	
0				0		Wood	0	
0				0		Wet, gray, sand (SP); poorly graded fine-to-medium sand	0	
0				0		Bottom of boring at 10' BGS	0	
5							5	
10							10	
15							15	
20							20	

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET

No Recovery

Static Water Level

Approved by: SJG

Continuous Core

Water Level (ATD)

Figure No. A- 135



# Boring Log

Project Number  
110207

Boring Number  
NRP-B-17

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 9/6/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0				0		Grass over topsoil		0
0				0		Moist, light brown to gray, slightly silty SAND (SW-SM); poorly graded fine to coarse sand		0
0		CC-1		0				0
0				0				0
5	3/8" hydrated bentonite chips			0				5
0		CC-2		0				0
0			NRP-B-17-8-9	0				0
0				0				0
10	▽			0		Wet, black, silty, gravelly SAND (SM); poorly graded fine to medium sand		10
0		CC-3		0				0
0			NRP-B-17-11-12	0				0
0			NRP-B-17-12-13	2.8		Slight petroleum-like odor 12' to 13'		0
0				1.8		No recovery		0
0						Refusal at 14' BGS		0
15								15
0								0
20								20
0								0
25								25

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET/MAR

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 136



# Boring Log

Project Number  
110207

Boring Number  
NRP-B-18

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 9/6/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	3/8" hydrated bentonite chips	CC-1				Asphalt		
0.3						Moist, gray GRAVEL (FILL); crushed rock with silt matrix		
				0.4				
				0.3			Moist, brown to dark gray SAND (SP); fine sand Thin bed silt	
							No recovery	
5				0.9			Moist, brown to dark gray SAND (SP); fine sand	5
		CC-2		1.5				
			NRP-B-18-8-9	0				
				6.6			Becomes medium sand	
				24.1			Becomes fine sand; numerous organics	
10				258				10
			NRP-B-18-11.5-12.5	6.6				
		CC-3		456			Sheen at 12'	
			NRP-B-18-14-15	1.4				
				0.2				
15				1.2			Bottom of boring at 15' BGS	15
20								20
25								25

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET/MAR

○ No Recovery

▼ Static Water Level

Approved by: SJG

▮ Continuous Core

▽ Water Level (ATD)

Figure No. A- 137



# Boring Log

Project Number  
110207

Boring Number  
NRP-B-19

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 9/6/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	3/8" hydrated bentonite chips	CC-1				Asphalt		
						Moist, gray, silty GRAVEL (FILL); crushed rock		
						Moist, light brown to dark gray SAND (SP); fine sand, silt beds		
5	▽	CC-2	NRP-B-19-8-9	9.6 204 949 984		No recovery		5
						Very moist to wet, dark gray, sandy SILT (ML)		
10	▽	CC-3	NRP-B-19-10-11	32.9 16.4 41.5 17.3		Wet, dark gray SAND (SP); medium sand, trace seashells		
						Very thin interbeds wood and organic silt Sheen at 9.5'		
						Trace silt 11' to 13'		
15			NRP-B-19-13-14	0.2 6.4 0.8		Wood		15
						Bottom of boring at 15' BGS		
20								20
25								25

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET/MAR

○ No Recovery

▽ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 138



# Boring Log

Project Number  
110207

Boring Number  
NRP-B-20

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 9/6/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	3/8" hydrated bentonite chips	CC-1		0		Asphalt		
0					Moist, gray, very gravelly, very silty SAND (SM); fine sand			
0					Moist, gray, slightly silty SAND (SP-SM); fine sand			
5						Thin bed silt No recovery		
5		CC-2		0		Wet, gray SAND (SP); poorly graded fine to medium sand, trace seashells		5
			NRP-B-20-8-9	2.8				
				0				
10				17.5		Wet, dark gray, very silty SAND (SM); fine sand, numerous organics, wood		10
			NRP-B-20-10-11	25.2				
				518				
				71.3		Wet, gray SAND (SP); trace organics		
		CC-3	NRP-B-20-12-13	3.7				
				2.3				
15				5.9				15
				4.5				
				1.8			Bottom of boring at 15' BGS	
20								20
25								25

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET/MAR

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 139





# Boring Log

Project Number  
110207

Boring Number  
NRP-B-21

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 9/7/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	3/8" hydrated bentonite chips	CC-1		0		Asphalt		
				0		Moist, brown, very gravelly, very silty SAND (SM); fine sand		
				9.6			Moist, gray SAND (SP); poorly graded fine to medium sand	
				16.6				
				1.1			No recovery	
5				4.1			Wet, gray SAND (SP); poorly graded fine to medium sand, trace seashells	5
			CC-2		0.6			
				NRP-B-21-7-8	290			
					351			
10				331				10
		CC-3		9.4				
			NRP-B-21-10.5-11.5	807				
				371			Wet, dark gray SILT (ML); numerous organics, wood	
				32.2			Wet, gray SAND (SP); fine to medium sand, numerous organics and seashells, wood	
15				21.5				15
				15.6				
				1.2			Bottom of boring at 15' BGS	15
20								20
25								25

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET/MAR

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 140



# Boring Log

Project Number  
110207

Boring Number  
NRP-B-22

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 9/6/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	3/8" hydrated bentonite chips	CC-1				Asphalt		
						Moist, gray, silty GRAVEL (GM); angular gravel - crushed rock		
						No recovery		
5								
	▼	CC-2	NRP-B-22-7-8			Moist, gray, silty GRAVEL (GM); angular gravel - crushed rock		5
						No recovery		
10								
		CC-3	NRP-B-22-11-12	16.9 26.4 13.5 0		Wet, gray, gravelly, silty SAND (SM); fine sand		10
						Wet, dark gray SAND (SP); fine sand, trace silt Sheen and strong petroleum-like odor 11' to 12'		
						No recovery		
15								
		CC-4	NRP-B-22-15.5-16.5			Wet, dark gray SAND (SP); fine sand, numerous organics		15
						Wood		
						Wet, dark gray SAND (SP); fine sand, numerous organics		
						No recovery		
20							Bottom of boring at 20' BGS	20
25								25

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET/MAR

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 141



# Boring Log

Project Number  
110207

Boring Number  
NRP-MW-01

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 13.99

Location: Everett, WA

Driller/Method: Cascade Drilling / Direct Push Probe

Depth to Water (ft BGS) \_\_\_\_\_

Sampling Method: Continuous Core

Start/Finish Date 6/6/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
1 - 13	8" Flush-mount monument and thermos cap Concrete surface seal 0' to 2'	CC-1				Asphalt and crushed rock	(Refer to boring log for NRP-B-2 for PID readings)	1
2 - 12	3/8" Hydrated bentonite chips 2' to 4'					Moist, gray SAND (SP); poorly graded fine-to-medium sand		2
3 - 11	10/20 pre-pack Silica sand filter pack 4' to 15'	CC-2				Moist, gray, silty SAND (SM); fine sand		3
4 - 10						Moist, gray SAND (SP); poorly graded fine-to-medium sand, trace organics: shells and wood, strong petroleum-like odor, sheen at 8'		4
5 - 9	2" Diameter PVC pre-packed .001 slot screen 5' to 15'	CC-3				Wet, gray, silty SAND (SM); trace gravel medium to coarse sand, slight petroleum-like odor, slight sheen		5
6 - 8						Wood chips at 12'		6
7 - 7	Threaded cap					Wet, gray SAND (SP); medium sand, trace organics, trace seashell fragments		7
8 - 6						Bottom of boring at 15' BGS		8
9 - 5								9
10 - 4								10
11 - 3								11
12 - 2								12
13 - 1								13
14 - 0								14
15 - -1								15
16 - -2								16
17 - -3								17
18 - -4								18
19 - -5								19
20 - -6								20
21 - -7								21
22 - -8								22
23 - -9								23
24 - -10								24
25 - -11								25
26 - -12								26
27 - -13								27
28 - -14								28
29 - -15								29

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MAR**

No Recovery

Static Water Level

Approved by: **SJG**

Continuous Core

Water Level (ATD)

Figure No. **A- 142**



# Boring Log

Project Number  
110207

Boring Number  
NRP-MW-02

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 15.37

Location: Everett, WA

Driller/Method: Cascade Drilling / Direct Push Probe

Depth to Water (ft BGS) \_\_\_\_\_

Sampling Method: Continuous Core

Start/Finish Date 5/29/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
15	8" Flush-mount monument and thermos cap						Grass over topsoil; post-holed to 2 feet for utilities	
14	Concrete surface seal 0' to 2'			0			Moist, dark gray, gravelly, very silty SAND (SM); fine sand	1
2				0				2
13	3/8" Hydrated bentonite chips 2' to 4'	CC-1		0				3
12				0				4
4	10/20 pre-pack Silica sand filter pack 4' to 15'			0			Moist, dark gray SAND (SP); fine sand interbedded with 1/4" lenses of silt	5
5				0				6
6				0				6
7				0			4" lens of dark gray SILT (ML)	7
8		CC-2		0			Moist to wet, dark gray SAND (SP); fine sand	8
9				0				9
2" Diameter PVC pre-packed .001 slot screen 5' to 15'				0			Medium sand at 9', trace organics-shell fragments	10
10				0				11
11				0				12
12		CC-3		0				13
13				0				13
14				0			Wet, dark gray SILT (ML)	14
1				0			Wet, dark gray SAND (SP); numerous organics-wood	15
15	Threaded cap			0			Bottom of boring at 15' BGS	16
16								16
17								17
18								18
19								19
20								20
21								21
22								22
23								23
24								24
25								25
26								26
27								27
28								28
29								29

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MAR**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 143**



# Boring Log

Project Number  
110207

Boring Number  
NRP-MW-03

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. 13.67  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe Depth to Water (ft BGS)  
 Sampling Method: Continuous Core Start/Finish Date 5/29/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
13	8" Flush-mount monument and thermos cap			0			Grass over topsoil; post-holed to 2 feet for utilities	1
12	Concrete surface seal 0' to 2'			0			Moist, dark gray SAND (SP); fine sand, trace organics-wood	2
11	3/8" Hydrated bentonite chips 2' to 4'	CC-1		0			Moist, dark gray SILT (ML)	3
10	10/20 pre-pack Silica sand filter pack 4' to 15'			0			Moist, dark gray SAND (SP); fine sand	4
9				0			Moist, dark gray SILT (ML)	5
8				0			Moist to wet, dark gray SAND (SP); poorly graded fine-to-medium sand	6
7		CC-2		0				7
6				0				8
5				0			Wet, dark gray SILT (ML)	9
4	2" Diameter PVC pre-packed .001 slot screen 5' to 15'			0			Moist, dark gray SAND (SP); poorly graded fine-to-medium sand, numerous organics-wood- every 2"	10
3				0				11
2		CC-3		0				12
1				0			Wet, dark gray SILT (ML); numerous organics-wood	13
0				0				14
-1	Threaded cap			0				15
-2							Bottom of boring at 15' BGS	16
-3								17
-4								18
-5								19
-6								20
-7								21
-8								22
-9								23
-10								24
-11								25
-12								26
-13								27
-14								28
-15								29
-16								

Sampler Type:  No Recovery  Continuous Core  
 PID - Photoionization Detector (Headspace Measurement)  
 Static Water Level (indicated by inverted triangle symbol at 6.5 ft depth)  
 Water Level (ATD) (indicated by open inverted triangle symbol at 6.5 ft depth)  
 Logged by: **MAR**  
 Approved by: **SJG**  
 Figure No. **A- 144**

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014



# Boring Log

Project Number  
110207

Boring Number  
NRP-MW-04

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 15.7

Location: Everett, WA

Driller/Method: Cascade Drilling / Direct Push Probe

Depth to Water (ft BGS) \_\_\_\_\_

Sampling Method: Continuous Core

Start/Finish Date 6/6/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
15	8" Flush-mount monument and thermos cap			0		Asphalt		1
14	Concrete surface seal 0' to 2'			0		Slightly moist, sandy, silty GRAVEL (GM); fine gravel		2
13	3/8" Hydrated bentonite chips 2' to 3'	CC-1		0				3
12	10/20 pre-pack Silica sand filter pack 3' to 14'			0		Moist, gray, slightly silty SAND (SP-SM); fine sand		4
11				0				5
10				0		Wet, gray, sandy SILT (ML)		6
9		CC-2		0				7
8	2" Diameter PVC pre-packed .001 slot screen 4' to 14'			0		Wet, gray CLAY (CL)		8
7				0				9
6				0		Wet, dark brown to black PEAT (PT)		10
5				0		Wet, gray SAND (SP) fine-to-medium sand, trace organics-wood- at 11' and 12'		11
4		CC-3		0				12
3				0		Fine sand 12.5' to 14'		13
2	Threaded cap			0				14
1				0		Refusal at 14'; bottom of boring at 14' BGS		15
0								16
-1								17
-2								18
-3								19
-4								20
-5								21
-6								22
-7								23
-8								24
-9								25
-10								26
-11								27
-12								28
-13								29
-14								

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MAR**

No Recovery

Static Water Level

Approved by: **SJG**

Continuous Core

Water Level (ATD)

Figure No. **A- 145**



# Boring Log

Project Number  
110207

Boring Number  
NRP-MW-05

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 15.39

Location: Everett, WA

Driller/Method: Cascade Drilling / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core

Start/Finish Date 6/27/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
15	8" Flush-mount monument and thermos cap							
14	Concrete surface seal 0' to 2'							
13	3/8" Hydrated bentonite chips 2' to 3'	CC-1		0			Moist, gray, slightly silty, sandy GRAVEL (GP-GM); crushed rock, fine to coarse sand	1
12	2/12 pre-pack Silica sand filter pack 3' to 14'			0			Moist, gray to dark gray, clayey SILT (ML)	3
11				0			Moist to wet, dark gray SAND (SP); fine sand	4
10				0				5
9	2" Diameter PVC pre-packed .001 slot screen 4' to 14'	CC-2		0			Moist, gray, sandy, silty GRAVEL (GM)	6
8				0			Wet, dark gray, silty CLAY (CL)	7
7				0			Wet, dark gray, very sandy GRAVEL (GP); poorly graded fine-to-medium sand, fine gravel, charred wood debris	8
6				0			Wet, gray SAND (SP); poorly graded fine-to-medium sand	9
5				0				10
4				0				11
3		CC-3		0			6" slightly silty sand layer at 12'	12
2	Threaded cap			0			Scattered organics-seashells	13
1				0				14
0				0			Bottom of boring at 15' BGS	15
-1								16
-2								17
-3								18
-4								19
-5								20
-6								21
-7								22
-8								23
-9								24
-10								25
-11								26
-12								27
-13								28
-14								29

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 146



### Boring Log

Project Number  
110207

Boring Number  
OMS-B-1

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Aspect / Hand Auger Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Grab Start/Finish Date 7/5/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
			OMS-B-1-0-1-070512				<b>CONCRETE SLAB FLOOR</b>	
			OMS-B-1-2-3-070512				<b>FILL</b> Slightly moist, brown, slightly gravelly, SAND (SP); predominantly medium sand.	
5							Bottom of boring at 3 ft BGS. Backfilled boring with same material that was pulled from hole.	5
10								10
15								15

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Grab Sample

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **GL**

Approved by: **SJG**

Figure No. **A- 147**





### Boring Log

Project Number  
110207

Boring Number  
OMS-B-2

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Aspect / Hand Auger Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Grab Start/Finish Date 7/5/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
1			OMS-B-2-0-1-070512				<b>CONCRETE SLAB FLOOR</b>	1
2			OMS-B-2-2-3-070512				<b>FILL</b> Slight moist, brown, slightly gravelly, SAND (SP); predominantly medium sand; shells present; plastic debris.	2
3							Bottom of boring at 3 ft BGS. Backfilled boring with same material that was pulled from hole.	3
4								4
5								5
6								6
7								7
8								8
9								9
10								10
11								11
12								12
13								13
14								14
15								15
16								16
17								17
18								18
19								19
20								20
21								21
22								22
23								23
24								24
25								25
26								26
27								27
28								28
29								29

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **GL**

No Recovery

Static Water Level

Approved by: **SJG**

Grab Sample

Water Level (ATD)

Figure No. **A- 148**



## Boring Log

Project Number  
110207

Boring Number  
OMS-B-3

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Aspect / Hand Auger Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Grab Start/Finish Date 7/5/2012-7/6/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
1			OMS-B-3-1-2-070512				<b>CONCRETE SLAB FLOOR</b>	1
2		✎					<b>FILL</b> Slightly moist, brown, slightly sandy GRAVEL (GP); predominantly coarse gravel with sandy and cobbles; recycled concrete rubble.	2
3			OMS-B-3-2-3-070612					3
4							Bottom of boring at 3 ft BGS. Backfilled boring with same material that was pulled from hole.	4
5								5
6								6
7								7
8								8
9								9
10								10
11								11
12								12
13								13
14								14
15								15
16								16
17								17
18								18
19								19
20								20
21								21
22								22
23								23
24								24
25								25
26								26
27								27
28								28
29								29

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **GL**

- No Recovery
- Grab Sample

- Static Water Level
- Water Level (ATD)

Approved by: **SJG**

Figure No. **A- 149**



# Boring Log

Project Number  
110207

Boring Number  
OMS-MW-01

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 14.77

Location: Everett, WA

Driller/Method: Cascade Drilling / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core

Start/Finish Date 6/4/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
14	8" Flush-mount monument and thermos cap			0		Gravel surface		
13	Concrete surface seal 0' to 2'			0		Moist, brown SAND (SP); poorly graded fine-to-medium sand		1
12	3/8" Hydrated bentonite chips 2' to 4'	CC-1		0		Moist, brown SAND (SW); trace gravel, fine to coarse sand		2
11				0		Moist, brown sand (SP); trace gravel, fine-to-medium sand		3
10	10/20 pre-pack Silica sand filter pack 4' to 15'			0				4
9				0				5
8		CC-2		0		Iron oxide staining at 6.5'		6
7				0		Slightly gravelly 7' to 8'		7
6				0				8
5				0		Moist, brown, very sandy GRAVEL (GP); fine subrounded gravel		9
4	2" Diameter PVC pre-packed .001 slot screen 5' to 15'			0				10
3				0				11
2		CC-3		0				12
1				0				13
0	Threaded cap			0				14
-1				0			Dark gray 13.5' to 15'	15
-2				0			H2S smell	16
-3				0			Bottom of boring at 15' BGS	17
-4				0				18
-5				0				19
-6				0				20
-7				0				21
-8				0				22
-9				0				23
-10				0				24
-11				0				25
-12				0				26
-13				0				27
-14				0				28
-15				0				29

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MAR**

No Recovery

Static Water Level

Approved by: **SJG**

Continuous Core

Water Level (ATD)

Figure No. **A- 150**



# Boring Log

Project Number  
110207

Boring Number  
OPS-MW-01

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 17.71

Location: Everett, WA

Driller/Method: Holt / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core 3"

Start/Finish Date 10/30/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
15	8" Flush-mount monument and thermos cap Concrete surface seal 0' to 1' 3/8" Hydrated bentonite chips 1' to 4'	CC-1					Recycled demo debris	
5	20/40 pre-pack Silica sand filter pack 4' to 15'	OPS-MW-1-5.5		0			Brick rubble	5
10	2" Diameter PVC pre-packed 10-slot screen 5' to 15'	OPS-MW-1-7 OPS-MW-20-7		0			Moist, brown, gravelly, very sandy, SILT (ML); fine to medium sand	
		CC-2		0			Moist, gray, SAND (SP); medium to coarse sand	
				0			Moist to wet, brown gray, slightly silty, SAND (SP-SM); fine sand, trace gravel	
				0			Wet, dark gray, SAND (SP); fine sand	
				0			No recovery	
10				0			Wet, dark gray, SAND (SW); fine to coarse sand, trace, fine gravel	10
5		OPS-MW-1-14		0			Wet, dark gray, SAND (SP); fine to medium sand, predominantly medium	
15	Threaded cap	CC-3		0			Bottom of boring at 15 feet	15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 151



# Boring Log

Project Number  
110207

Boring Number  
PM-B01

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/20/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
						Recycled demo debris		
			PM-B1-1.5 PM-B501-1.5	0		Moist, brown, gravelly, slightly silty SAND (SP-SM); fine to medium sand		
		CC-01		0		No recovery		
5	Hydrated bentonite chip backfill							5
	▽ 11/20/2013		PM-B1-6	0		Moist, brown, slightly silty gravelly SAND (SP-SM); fine to medium sand; brick debris		
		CC-02		0		Moist, brown, silty SAND (SM); trace gravel		
				0		Wet, gray to dark gray SAND (SP); fine sand; trace gravel; trace silt		
				0		No recovery		
10			PM-B1-10	0		Wet, gray/dark gray, SAND (SP); fine sand, scattered organics		10
		CC-03		0		Grades to silty SAND (SM); fine sand		
				0		No recovery		
15						Bottom of boring 15 feet Note: Density and consistency was estimated based on sample observations.		15

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- ▼ Static Water Level
- ▽ Water Level (ATD)

Logged by: AET

Approved by: SJG

Figure No. A- 152



# Boring Log

Project Number  
110207

Boring Number  
PM-B02

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/13/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
						Recycled demo debris		
				0				
				0			Stiff, slightly moist, gray with reddish brown staining, slightly gravelly SILT (ML)	
		CC-01	PM-B2-2	0				
						No recovery		
5	Hydrated bentonite chip backfill							5
				0			Stiff, slightly moist, gray with reddish brown staining, slightly gravelly SILT (ML)	
				0		Woody debris		
				0			Stiff, slightly moist, brown, silty SAND (SM); fine sand	
			PM-B2-6.5	0				
	▽ 11/13/2013						Stiff, wet, gray, slightly sandy SILT (ML)	
		CC-02		0				
				0				
				0				
			PM-B2-9	0				
						No recovery		
10							Stiff, wet, gray, slightly sandy SILT (ML)	10
				0				
				0				
				0				
				0				
		CC-03		0			Medium dense, wet, gray, SILTY SAND (SM); fine to medium sand	
				0				
				0				
				0				
				0				
				0				
15							Bottom of boring 15 feet Note: Density and consistency was estimated based on sample observations.	15

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- ▼ Static Water Level
- ▽ Water Level (ATD)

Logged by: AHP

Approved by: SJG

Figure No. A- 153



# Boring Log

Project Number  
110207

Boring Number  
PM-B03

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/15/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
						Recycled demo debris		
		CC-01	PM-B3-2	0		Medium stiff, slightly moist, gray SILT (ML)		
						No recovery		
5	Hydrated bentonite chip backfill			0		Medium stiff, slightly moist, gray SILT (ML)		5
			PM-B3-6.5	0		Medium dense, dry, light brown, gravelly, silty SAND (SM); fine to medium sand, medium gravel		
		CC-02	PM-B3-7.5	0		Medium stiff, slightly moist, brown SILT (ML)		
				0		Wet, gray		
				0		No recovery		
10			PM-B3-11	0		Medium stiff, wet, gray SILT (ML)		10
		CC-03				No recovery		
15						Bottom of boring 15 feet Note: Density and consistency was estimated based on sample observations.		15

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **AHP**

Approved by: **SJG**

Figure No. **A- 154**



# Boring Log

Project Number  
110207

Boring Number  
PM-B04

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/13/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
						Recycled demo debris		
				0				
			PM-B4-2	0		Loose to medium dense, slightly moist, brown SAND (SW); fine to coarse sand		
		CC-01				No recovery		
5	Hydrated bentonite chip backfill							5
			PM-B4-5.5	0		Loose to medium dense, slightly moist, brown SAND (SW); fine to coarse sand		
				0				
				0				
	▽ 11/13/2013			0			Medium dense, moist, grayish brown, SAND (SP); coarse subangular sand	
		CC-02		0				
			PM-B4-8	0		Stiff, moist, gray SILT (ML)		
				0		No recovery		
10								10
			PM-B4-10.5			Loose, wet, brown, slightly gravelly, silty SAND (SM)		
						Stiff, wet, gray, slightly sandy SILT (ML)		
						Loose, wet, brown, slightly gravelly, silty SAND (SM)		
		CC-03				Stiff, wet, gray, slightly sandy SILT (ML)		
						Medium dense, wet, gray, silty SAND (SM)		
15								15
							Bottom of boring 15 feet Note: Density and consistency was estimated based on sample observations.	

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- ▼ Static Water Level
- ▽ Water Level (ATD)

Logged by: **AHP**

Approved by: **SJG**

Figure No. **A- 155**





# Boring Log

Project Number  
110207

Boring Number  
PM-B05

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/18/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
						Recycled demo debris		
						No recovery		
5	Hydrated bentonite chip backfill	CC-01				No recovery		5
						No recovery		
		CC-02						
	▽ 11/18/2013							
10				0		Soft, wet, gray silty SAND (SM); medium to coarse subangular sand		10
				0				
				0				
				0				
				0				
				0				
				0				
						No recovery		
15						Bottom of boring 15 feet Note: Density and consistency was estimated based on sample observations.		15

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AHP

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 156



# Boring Log

Project Number  
110207

Boring Number  
PM-B06

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/20/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
1			PM-B6-2  PM-B6-3  PM-B6-6	0  0  0  0		Recycled demo debris	1	
2						Moist, black, silty SAND (SM); trace gravel, burnt odor	2	
3						No recovery	3	
4							4	
5						Moist, black, silty SAND (SM); trace gravel, burnt odor	5	
6						Refusal 6 feet Note: Density and consistency was estimated based on sample observations.	6	

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET

No Recovery

Static Water Level

Approved by: SJG

Continuous Core

Water Level (ATD)

Figure No. A- 157



# Boring Log

Project Number  
110207

Boring Number  
PM-B07

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/20/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
1		CC-01	PM-B7-2.5	0	0	Recycled demo debris	1	
2						Moist, brown, gravelly silty SAND (SM); fine sand	2	
3		No recovery	3					
4		No recovery	4					
5		Wet, dark gray, silty SAND (SM); fine sand	5					
6		Wet, black, SAND (SP); trace gravel, fine to medium sand, predominantly fine	6					
7		0	7					
8		0	8					
9		No recovery	9					
10		Bottom of boring 10 feet Note: Density and consistency was estimated based on sample observations.	10					

Hydrated bentonite chip backfill  
 ▽ 11/20/2013

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 158



# Boring Log

Project Number  
110207

Boring Number  
PM-B08

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/20/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)			
1	[Solid black bar]	CC-01	PM-B8-3	0	0	[Cross-hatch pattern]	Recycled demo debris	1			
2											2
3										[Dotted pattern]	Moist, brown SAND (SP); fine to medium sand
4						[X-pattern]	No recovery	4			
5	▽ 11/20/2013		PM-B8-5					5			
6								6			
7	Hydrated bentonite chip backfill							7			
8		CC-02						8			
9								9			
10								10			
							Bottom of boring 10 feet Note: Density and consistency was estimated based on sample observations.				

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- ▼ Static Water Level
- ▽ Water Level (ATD)

Logged by: AET

Approved by: SJG

Figure No. A- 159



# Boring Log

Project Number  
110207

Boring Number  
PM-B09

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/20/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
1						Recycled demo debris		1
2								2
3		CC-01				No recovery		3
4								4
5	▽ 11/20/2013		PM-B9-5			Medium dense, wet, brown SAND (SW); fine to coarse subangular sand		5
6								6
7	Hydrated bentonite chip backfill		PM-B9-7			Medium stiff, wet, gray, silty SAND (SM); fine sand		7
8		CC-02						8
9						No recovery		9
10						Bottom of boring 10 feet Note: Density and consistency was estimated based on sample observations.		10

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- ▼ Static Water Level
- ▽ Water Level (ATD)

Logged by: **AHP**

Approved by: **SJG**

Figure No. **A- 160**



# Boring Log

Project Number  
110207

Boring Number  
PM-B10

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/20/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)			
1		CC-01	PM-B10-3	0	0		Recycled demo debris	1			
2											
3									Very moist, brown gray, gravelly SAND (SP); coarse sand	3	
4									No recovery	4	
5		Hydrated bentonite chip backfill								Moist, brown, SAND (SP); fine sand	5
6								0			6
7		▽ 11/20/2013						0		Wet	7
8					CC-02			0		Becomes fine to medium sand with shells	8
9								0		No recovery	9
10										Bottom of boring 10 feet Note: Density and consistency was estimated based on sample observations.	10

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: AET

Approved by: SJG

Figure No. A- 161



# Boring Log

Project Number  
110207

Boring Number  
PM-MW-01

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 16.13

Location: Everett, WA

Driller/Method: Holt / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core 3"

Start/Finish Date 10/28/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
15	8" Flush-mount monument and thermos cap Concrete surface seal 0' to 1' 3/8" Hydrated bentonite chips 1' to 4'	CC-1	PM-MW-1-2.5	0		Recycled demo debris		
				0		Slightly moist, gray and light brown, slightly gravelly, sandy, SILT (ML); fine to medium sand, fine gravel		
						No Recovery		
5	20/40 pre-pack Silica sand filter pack 4' to 15'		PM-MW-1-5.5	0		Slightly moist, gray and light brown, slightly silty, slightly gravelly, SAND (SW-SM); fine to coarse sand		5
10	▽ 10/28/2013	CC-2		0		Becomes saturated at 6.5		
			PM-MW-1-8.5	0		Wet, gray, sandy, SILT (ML); fine sand, strong sulfurous odor		
						No Recovery		
10	2" Diameter PVC pre-packed 10-slot screen 5' to 15'			0		Wet, gray, sandy, SILT (ML); fine sand		10
5		CC-3		0				
				0				
				0				
				0				
15	Threaded cap			0		No Recovery		15
0	Slough	CC-4		0		Wet, gray, sandy, SILT (ML); fine sand		
				0		Wet, gray, silty, gravelly, SAND (SM); fine to coarse sand		
				0		No Recovery		
20				0		Wet, green gray, sandy, SILT (ML)		20
-5		CC-5		0		Wet, green gray, sandy, GRAVEL (GP)		
			PM-MW-1-24	0		No Recovery		
25				0		Bottom of boring at 25 feet		25

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **AHP**

○ No Recovery

▽ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 162**



# Boring Log

Project Number  
110207

Boring Number  
PM-MW-02

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 15.87

Location: Everett, WA

Driller/Method: Holt / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core 3"

Start/Finish Date 11/12/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
15	8" Flush-mount monument and thermos cap Concrete surface seal 0' to 1'	CC-01					No recovery	
5	3/8" Hydrated bentonite chips 1' to 5'		PM-MW-2-5				Moist, mottled brown and dark gray, sandy, SILT (ML); fine sand	5
10	10/20 pre-pack Silica sand filter pack 5' to 16.25'	CC-02		0			No recovery	
5			PM-MW-2-10				Wet, black, slightly silty, SAND (SP-SM); fine sand, numerous shell fragments	10
10		CC-03		0			Wet, dark gray, SAND (SP); medium sand, numerous shell fragments	
15	2" Diameter PVC pre-packed 10-slot screen 6' to 16'		PM-MW-2-15				Wet, dark gray to black, SAND (SP); medium sand	15
0	Threaded cap	CC-04		0			Wet, dark gray, sandy, clayey, SILT (ML); fine sand	
20	Slough 16.25' to 20'			0			Wet, dark gray, SAND (SW); fine to coarse sand, trace silt, trace gravel	
-5							No recovery	
							Bottom of boring at 20 feet	20

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 163





# Boring Log

Project Number  
110207

Boring Number  
PM-MW-03

Sheet  
1 of 2

Project Name: Kimberly Clark

Ground Surface Elev. 17.23

Location: Everett, WA

Driller/Method: Holt / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core 3"

Start/Finish Date 10/30/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
15	8" Flush-mount monument and thermos cap Concrete surface seal 0' to 1'  3/8" Hydrated bentonite chips 1' to 3'	CC-1		0		Recycled demo debris		
			PM-MW-3-3 PM-MW-20-3			Moist, brown with iron oxide staining, SAND (SP); fine sand		
						No recovery		
5	10/20 pre-pack Silica sand filter pack 3' to 14.25'					Moist, brown with iron oxide staining, SAND (SP); fine sand		5
			PM-MW-3-6	0				
	▽ 10/30/2013							
			PM-MW-3-7	0		Wet, gray to dark gray, SAND (SP); fine sand, trace gravel, scattered fibrous organics		
		CC-2		0				
				0				
				0				
10	2" Diameter PVC pre-packed 10-slot screen 4' to 14'					Wet, dark gray, SAND (SP); fine sand		10
				0				
				0				
				0				
		CC-3		0				
			PM-MW-3-13	0		Wet, dark gray, slightly silty, SAND (SP-SM); fine sand		
				0				
	Threaded cap			0				
15						Bottom of boring at 15 feet		15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **AET**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 164**



### Boring Log

Project Number  
110207

Boring Number  
PM-MW-03

Sheet  
2 of 2

Project Name: Kimberly Clark Ground Surface Elev. 17.23  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 3" Start/Finish Date 10/30/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0								
	Slough 14.25' to 20'							
20								20
-5								
25								25
-10								
30								30

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **AET**

Approved by: **SJG**

Figure No. **A- 164**



# Boring Log

Project Number  
110207

Boring Number  
PM-MW-04

Sheet  
1 of 2

Project Name: Kimberly Clark

Ground Surface Elev. 15.36

Location: Everett, WA

Driller/Method: Holt / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core 3"

Start/Finish Date 11/13/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
15	8" Flush-mount monument and thermos cap Concrete surface seal 0' to 1' 3/8" Hydrated bentonite chips 1' to 4'	CC-01		0		Recycled demo debris		
			PM-MW-2-3 PM-MW-502-3	0		Slightly moist, brown, sandy, SILT (ML); fine sand		
						No recovery		
5	20/40 pre-pack Silica sand filter pack 4' to 15'			0				5
10			PM-MW-2-6 PM-MW-502-6	0		Slightly moist, brown, silty, SAND (SM); medium to coarse sand, trace gravel,		
	▽ 11/13/2013		PM-MW-2-7 PM-MW-502-7	0		Wet, gray, slightly sandy, SILT (ML); fine sand		
		CC-02		0		No recovery		
10	2" Diameter PVC pre-packed 10-slot screen 5' to 15'			0				10
5			PM-MW-2-12 PM-MW-502-12	0		Wet, gray, SAND (SW); fine to coarse, subangular sand		
		CC-03		0		No recovery		
15	Threaded cap			0				15
0							Bottom of boring at 15.25 feet	

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **AHP**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 165**



# Boring Log

Project Number  
110207

Boring Number  
PM-MW-04

Sheet  
2 of 2

Project Name: Kimberly Clark Ground Surface Elev. 15.36  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 3" Start/Finish Date 11/13/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	Slough							
20								20
25								25
30								30

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **AHP**

Approved by: **SJG**

Figure No. **A- 165**



# Boring Log

Project Number  
110207

Boring Number  
PM-MW-05

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 16.02

Location: Everett, WA

Driller/Method: Holt / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core 3"

Start/Finish Date 10/30/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
15	8" Flush-mount monument and thermos cap Concrete surface seal 0' to 1' 3/8" Hydrated bentonite chips 1' to 4'	CC-1		0		Recycled demo debris		
			PM-MW-5-3			Moist, brown, slightly gravelly, SAND (SW); fine to coarse sand, fine gravel		
						No recovery		
5	20/40 pre-pack Silica sand filter pack 4' to 15'					Moist to wet, brown, slightly gravelly, SAND (SP); medium sand, fine gravel		5
10	▽ 10/30/2013	CC-2		0		Wet, dark gray, slightly silty, SAND (SP-SM); fine to medium sand		
			PM-MW-5-7			Wet, black, silty, SAND (SM); fine sand, numerous organics, no odor		10
10	2" Diameter PVC pre-packed 10-slot screen 5' to 15'					Decaying organics odor at 11.5 feet		
5		CC-3		0		Moist, gray, silty, SAND (SM); fine sand		
			PM-MW-5-11			Wet at 14 feet		
15	Threaded cap					Wet, black, gravelly, SAND (SW); fine to coarse sand, fine to coarse gravel, hydrogen sulfide odor		15
0	Slough	CC-4		0		No recovery		
			PM-MW-5-14			Bottom of boring at 20 feet		20

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 166



### Boring Log

Project Number  
110207

Boring Number  
PM-MW-06

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 16.11

Location: Everett, WA

Driller/Method: Holt / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core 3"

Start/Finish Date 10/28/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
15	8" Flush-mount monument and thermos cap Concrete surface seal 0' to 1'					Concrete rubble		
						Slightly moist, light brown, SAND (SP) and GRAVEL (GP); fine sand, fine gravel		
						Concrete rubble		
		CC-01	PM-MW-6-2.5 PM-MW-11-2.5	0		Slightly moist, light brown, silty, SAND (SM); fine sand		
	3/8" Hydrated bentonite chips 1' to 5'			0		Slightly moist, gray, SILT (ML)		
				0		Slightly moist, light brown, silty, SAND (SM); fine sand		
5						No Recovery		
						Slightly moist, light brown, silty, SAND (SM); fine sand		5
10			PM-MW-6-6 PM-MW-11-6	0				
		CC-02						
	10/28/2013					Gray and light brown, very thinly bedded CLAY (CL) and silty SAND (SM).		
			PM-MW-6-8 PM-MW-11-8	0		Wet, gray, slightly sandy, SILT (ML)		
				0		No Recovery		
10	10/20 pre-pack Silica sand filter pack 5' to 16.25'					Wet, gray, silty, SAND (SM); fine sand		10
		CC-03	PM-MW-6-11 PM-MW-11-11	0				
5								
15	2" Diameter PVC pre-packed 10-slot screen 6' to 16'					Wet, mottled gray and white, SAND (SP); medium to coarse, subrounded sand		15
	Threaded cap					SILT lens an 15.5 feet		
0		CC-04		0		No Recovery		
	Slough 16.25' to 20'							
20						Bottom of boring at 20 feet		20

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **AHP**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

■ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 167**



# Boring Log

Project Number  
110207

Boring Number  
PM-MW-07

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 15.38

Location: Everett, WA

Driller/Method: Holt / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core 3"

Start/Finish Date 10/28/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
15	8" Flush-mount monument and thermos cap Concrete surface seal 0' to 1' 3/8" Hydrated bentonite chips 1' to 7'	CC-01	PM-MW-7-1.5	0		Concrete rubble	Concrete rubble	
				0			Slightly moist, brown and black, gravelly, silty, SAND (SM); fine to coarse, subrounded sand, fine to medium, rounded gravel	
				0			No recovery	
5	20/40 pre-pack Silica sand filter pack 7' to 18'	CC-02	PM-MW-7-6.5	0			Slightly moist, brown and black, gravelly, silty, SAND (SM); fine to coarse, subrounded sand, fine to medium, rounded gravel	5
10				0			No recovery	
	2" Diameter PVC pre-packed 10-slot screen 8' to 18'	CC-03	PM-MW-7-10.5	0			Slightly moist, brown and black, gravelly, silty, SAND (SM); fine to coarse, subrounded sand, fine to medium, rounded gravel Wet at 10.5 feet	10
15				0			No recovery	
		CC-04	PM-MW-7-15.5				Wet, gray, silty, SAND (SM); fine to coarse, subrounded sand, trace organics (wood chips)	15
							Wet, gray, slightly sandy, SILT (ML); trace organics (shell fragments)	
							Wet, gray, slightly sandy, SILT (ML)	
							No recovery	
20	Threaded cap Slough						Bottom of boring at 20 feet	20

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **AHP**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 168**



# Boring Log

Project Number  
110207

Boring Number  
PM-MW-08

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 13.79

Location: Everett, WA

Driller/Method: Holt / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core 3"

Start/Finish Date 10/25/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	8" Flush-mount monument and thermos cap					Concrete rubble		
0 to 1'	Concrete surface seal							
1' to 4'	3/8" Hydrated bentonite chips	CC-01	PM-MW-8-2.5	0		Slightly moist, light brown, slightly gravelly, slightly silty, SAND (SM); medium to coarse, subangular sand, coarse, rounded gravel		
10				0		No recovery		
5	20/40 pre-pack Silica sand filter pack 4' to 15'		PM-MW-8-5.5	0		Slightly moist, light brown, gravelly, silty, SAND (SM)		5
			PM-MW-8-7	0		Moist, brown, SILT (ML); trace, fine sand, organics at 6.9'		
	10/25/2013	CC-02		0		Wet, brown, slightly silty, gravelly, SAND (SW-SM); fine to coarse sand, fine gravel		
5				0		No recovery		
10	2" Diameter PVC pre-packed 10-slot screen 5' to 15'		PM-MW-8-12	0		Wet, brown, silty, gravelly, SAND (SM); fine to coarse sand, fine, subangular gravel		10
				0		Wet, gray, sandy, SILT (ML); fine, micaceous sand		
		CC-03		0		Wet, gray, silty, sandy, GRAVEL (GM)		
0				0		Wet, gray, slightly sandy, SILT (ML); trace gravel		
15	Threaded cap			0		Wet, gray, silty, SAND (SM)		15
	Slough			0		Wet, mottled gray and white and black, gravelly, SAND (SW); fine to coarse, subangular to subrounded sand, fine to coarse, subangular to subrounded gravel		
				0		Wet, gray, slightly silty, SAND (SW-SM); fine to coarse, subrounded sand		
		CC-04		0		No recovery		
-5								
20						Bottom of boring at 20 feet		20

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **AHP**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 169**





# Boring Log

Project Number  
110207

Boring Number  
REC1-MW-01

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 19.18

Location: Everett, WA

Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access

Depth to Water (ft BGS)

Sampling Method: Continuous Core

Start/Finish Date 9/4/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	8" flush-mount monument and thermos cap					Concrete		
	Concrete surface seal			0		Void space		
	3/8" hydrated bentonite chips	CC-1		0		Moist, gray, SAND (SP); poorly graded fine to medium sand		
5	10/20 silica sand filter pack					No recovery		
5	3/4" diameter PVC pre-packed .001 slot screen	CC-2	REC1-MW-1-5-6	0.3		Wet, gray, slightly silty SAND (SP-SM); poorly graded fine to medium sand, trace gravel		5
10				0.2		Wet, gray, very gravelly SAND (SP); poorly graded fine to medium sand		
10				0		No recovery		
10				10		Wet, gray, gravelly SAND (SP); poorly graded fine to medium sand		10
15	Threaded cap Slough	CC-3	REC1-MW-1-11-12	69.5		Very moist to wet ORGANIC SILT (OL); very woody, trace gravel		
15			REC1-MW-1-13-14	7.6		No recovery		
15				3.6				
15				2.7				
15				0.8				
15							Bottom of boring at 15'	15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **AET & MAR**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 170**

**Boring Log**Project Number  
110207Boring Number  
REC1-MW-02Sheet  
1 of 1Project Name: Kimberly ClarkGround Surface Elev. 19.1Location: Everett, WADriller/Method: Cascade Drilling / Direct Push Probe-Limited AccessDepth to Water (ft BGS) Sampling Method: Continuous CoreStart/Finish Date 9/4/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	8" flush-mount monument and thermos cap					Concrete		
	Concrete surface seal			0		Void space		
	3/8" hydrated bentonite chips	CC-1		0		Moist, brown gravelly, SAND (SW); well graded fine to coarse sand		
	10/20 silica sand filter pack			0		Wood		
15						Moist, brown, slightly gravelly SAND (SP); fine sand		
5	3/4" diameter PVC pre-packed .001 slot screen	CC-2	REC1-MW-2-6-7 REC1-MW-2-6.5			No recovery		5
10						Moist, brown, slightly gravelly SAND (SP); poorly graded fine to medium sand		
10						Wet, gray, silty SAND (SM); fine sand		
						No recovery		10
15	Threaded cap	CC-3		0		Wet, gray, slightly gravelly SAND (SP); poorly graded fine to medium sand, fine gravel		
15	Slough and bentonite	CC-4		0				15
0				0				
20				0				
20				0			Bottom of boring at 20' BGS	20
-5								
25								25

Sampler Type:

- No Recovery  
 Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level  
 Water Level (ATD)

Logged by: **AET & MAR**Approved by: **SJG**Figure No. **A- 171**

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014



# Boring Log

Project Number  
110207

Boring Number  
REC1-MW-03

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 19.08

Location: Everett, WA

Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access

Depth to Water (ft BGS) \_\_\_\_\_

Sampling Method: Continuous Core

Start/Finish Date 9/4/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	8" flush-mount monument and thermos cap					Concrete		
0	Concrete surface seal					Void space		
0						Moist, brown, gravelly SAND (SP); poorly graded fine to medium sand		
0	3/8" hydrated bentonite chips	CC-1				No recovery		
15	10/20 silica sand filter pack							
5			REC1-MW-3-5.5-6.5			Moist, brown, slightly gravelly SAND (SP); fine sand, scattered shells		5
5				42.1		Wet, gray, silty SAND (SM); fine sand		
5		CC-2		4.7		Wet, gray, SAND (SW); well graded fine to coarse sand, abundant shells		
10	3/4" diameter PVC pre-packed .001 slot screen			37.8		No recovery		
10								
10			REC1-MW-3-12-13	223		Wet, gray, SAND (SP); poorly graded fine to medium sand		10
10		CC-3		1719				
10				2434				
15				381				
15	Threaded cap			29.0				15
15				1811				
15	Slough and bentonite	CC-4		381		Wet, brown to gray SAND interbedded with SILT (SP/ML); thin interbeds, numerous organics in silt beds		
0				117				
20				47.1				
20				1.9		Wet, brown to gray, SAND (SP); poorly graded fine to medium sand, trace fine gravel		20
20		CC-5		1.9				
20			REC1-MW-3-24-25	5.0				
25				26.8		Bottom of boring at 25' BGS		25

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **AET & MAR**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 172**



# Boring Log

Project Number  
110207

Boring Number  
REC1-MW-04

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 15.12

Location: Everett, WA

Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access

Depth to Water (ft BGS)

Sampling Method: Continuous Core

Start/Finish Date 9/7/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
15	8" flush-mount monument and thermos cap					Asphalt		
	Concrete surface seal			0		Moist, brown, SAND (SP); fine sand, trace silt		
	3/8" hydrated bentonite chips	CC-1		0		Very thin bed medium sand		
	10/20 silica sand filter pack			0		Moist, gray SILT (ML)		
5						Moist, brown SAND (SP); medium sand		
						No recovery		
10				0		Very moist to wet, SAND (SP); poorly graded fine to medium sand		5
	2" diameter PVC pre-packed .001 slot screen	CC-2	REC1-MW-4-6.5-7.5	0				
				0				
				2.2		Becomes gray		
				8.4		No recovery		
10				32		Wet, gray SAND (SP); medium sand		10
				11.8		Becomes fine sand		
		CC-3	REC1-MW-4-11-12	17.1		Wet, gray, very sandy SILT (ML)		
				11.1		Wet, gray SAND (SP); medium sand		
				13.3		Wood		
15	Threaded cap			3.2		Bottom of boring at 15' BGS		15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **AET & MAR**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 173**



# Boring Log

Project Number  
110207

Boring Number  
REC1-MW-05

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. \_\_\_\_\_

Location: Everett, WA

Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access

Depth to Water (ft BGS) \_\_\_\_\_

Sampling Method: Continuous Core

Start/Finish Date 9/10/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	8" flush-mount monument and thermos cap					Asphalt		
0	Concrete surface seal					Concrete		
0	Medium bentonite chips	CC-1				Moist, brown SAND (SP); poorly graded fine to medium sand		
0	10/20 silica sand filter pack					Pocket of fine sand		
5						No recovery		
5			REC1-MW-05-6.5-7.5	9.8		Moist, brown SAND (SP); poorly graded fine to medium sand		5
5		CC-2		2.8				
5	2" diameter PVC pre-packed .001 slot screen			66.7				
10				87.9		No recovery		
10			REC1-MW-05-12-13	24.4		Wet, dark gray, SAND (SP); fine sand, sheen and strong petroleum-like odor		10
10		CC-3		104				
10				112		Becomes medium sand, gravelly		
10				169				
10				87				
15	Threaded cap			10.0		Becomes fine to medium sand; trace gravel, trace silt		15
15				45.7				
15				17.7		Wood at 16.5'		
15	Slough and bentonite	CC-4		13.4				
15				7.0		Pocket of silt		
20				16.0				20
20			REC1-MW-05-22-23	7.0				
20		CC-5		3.6				
20				1.8				
25				26.4		Wet, brown SILT (ML)		
25				33.8		Wet, gray SAND (SP); poorly graded fine to medium sand		
25						Bottom of boring at 25' BGS		25

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **AET & MAR**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 174**



# Boring Log

Project Number  
110207

Boring Number  
REC1-MW-06

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 9/10/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	6" flush-mount monument and thermos cap					Concrete	Concrete	0
0	Concrete surface seal in sonotube					Void space	Void space	0
5	3/8" hydrated bentonite chips							5
5	10/20 silica sand filter pack							5
7.5	2" diameter PVC pre-packed .001 slot screen	CC-1	REC1-MW-06-7.5-8.5	0		Moist, dark brown, silty, sandy GRAVEL (GM)	Moist, dark brown, silty, sandy GRAVEL (GM)	7.5
8.5					Moist, brown, sandy SILT (ML); fine sand	Moist, brown, sandy SILT (ML); fine sand	8.5	
8.5					Wet, very gravelly	Wet, very gravelly	8.5	
8.5					Wet, gray, slightly gravelly SAND (SP); poorly graded fine to medium sand	Wet, gray, slightly gravelly SAND (SP); poorly graded fine to medium sand	8.5	
10				0		No recovery	No recovery	10
10				0		Wet, gray, slightly gravelly SAND (SP); poorly graded fine to medium sand	Wet, gray, slightly gravelly SAND (SP); poorly graded fine to medium sand	10
12.5		CC-2	REC1-MW-06-12.5-13.5	0		Wet, brown and gray mottled, gravelly, sandy SILT (ML); poorly graded fine to medium sand, fine angular gravel	Wet, brown and gray mottled, gravelly, sandy SILT (ML); poorly graded fine to medium sand, fine angular gravel	12.5
13.5				1.6		Wet, brown PEAT (PT); fibrous	Wet, brown PEAT (PT); fibrous	13.5
13.5				4.7		Wet, gray, sandy, silty GRAVEL (GM); numerous organics	Wet, gray, sandy, silty GRAVEL (GM); numerous organics	13.5
15				0		No recovery	No recovery	15
15		CC-3	REC1-MW-06-17-18	0		Wet, gray, very gravelly SAND (SP)	Wet, gray, very gravelly SAND (SP)	15
17				2.6		Wet, brown PEAT (PT); fibrous	Wet, brown PEAT (PT); fibrous	17
18				1.8				18
18	Threaded cap			1.9				18
18							Bottom of boring at 18' BGS	18

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **AET & MAR**

Approved by: **SJG**

Figure No. **A- 175**



# Boring Log

Project Number  
110207

Boring Number  
REC1-MW-07

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. \_\_\_\_\_

Location: Everett, WA

Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access

Depth to Water (ft BGS) \_\_\_\_\_

Sampling Method: Continuous Core

Start/Finish Date 9/10/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	6" flush-mount monument and thermos cap					Concrete	Concrete	
	Concrete surface seal in sonotube					Void space	Void space	
5	3/8" hydrated bentonite chips	CC-1	REC1-MW-07-7-8	0		Moist, brown, slightly silty SAND (SP-SM); fine sand, trace gravel	Moist, brown, slightly silty SAND (SP-SM); fine sand, trace gravel	5
	10/20 silica sand filter pack			0		Wet. gray, slightly gravelly, silty SAND (SM)	Wet. gray, slightly gravelly, silty SAND (SM)	
	2" diameter PVC pre-packed .001 slot screen			0		No recovery	No recovery	
10		CC-2	REC1-MW-07-13-14	0		Wet, brown, sandy SILT (ML); trace gravel	Wet, brown, sandy SILT (ML); trace gravel	10
				0		Becomes gray Wood	Becomes gray Wood	
				0		Wet, gray SAND (SP); poorly graded fine to medium sand, trace gravel	Wet, gray SAND (SP); poorly graded fine to medium sand, trace gravel	
				1.4		Wet, gray, clayey SILT (ML)	Wet, gray, clayey SILT (ML)	
				0.6		Wet, gray SAND (SP); poorly graded fine to medium sand	Wet, gray SAND (SP); poorly graded fine to medium sand	
						No recovery	No recovery	
15		CC-3	REC1-MW-07-16.5-17.5	0		Wet, gray SAND (SP); poorly graded fine to medium sand	Wet, gray SAND (SP); poorly graded fine to medium sand	15
				0.3		Wet, brown gray, clayey SILT (ML); numerous organics	Wet, brown gray, clayey SILT (ML); numerous organics	
				1.4		Wet, gray SAND (SP); poorly graded fine to medium sand	Wet, gray SAND (SP); poorly graded fine to medium sand	
	Threaded cap			1.5		Bottom of boring at 17.5' BGS	Bottom of boring at 17.5' BGS	

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **AET & MAR**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 176**



# Boring Log

Project Number  
110207

Boring Number  
REC1-MW-08

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. \_\_\_\_\_

Location: Everett, WA

Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access

Depth to Water (ft BGS) \_\_\_\_\_

Sampling Method: Continuous Core

Start/Finish Date 9/4/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	8" flush-mount monument and thermos cap					Asphalt		
	Concrete surface seal			0		Moist, brown, gravelly, silty SAND (SM); poorly graded fine to medium sand		
	3/8" hydrated bentonite chips			0		Moist, brown SAND (SP); poorly graded fine to medium sand, brick debris, trace gravel		
	10/20 silica sand filter pack	CC-1		1.4		Moist, black, silty, sandy GRAVEL (GM); with cobbles, fine sand		
5				0		No recovery		5
				0		Moist, brown, gravelly SAND (SP); poorly graded fine to medium sand		
		CC-2	REC1-MW-08-7-8	1.0		Moist, black, silty, sandy GRAVEL (GM); with cobbles, fine sand		
				0		Wet, brown, sandy GRAVEL (GP)		
						No recovery		
10				0		Wet, brown gray SAND (SW); poorly graded fine to coarse sand		10
				0		Wet, brown, sandy GRAVEL (GP); with cobbles		
		CC-3	REC1-MW-08-12-13	3.7		Becomes black		
	Threaded cap			0.4		Becomes red		
						No recovery		
15				0		Wet, gray, trace to slightly gravelly SAND (SP); poorly graded fine to medium sand		15
	Slough and bentonite	CC-4	REC1-MW-08-15-16	0				
				0				
				0				
20				0			Bottom of boring at 20' BGS	20
25								25

Sampler Type:  No Recovery       Continuous Core  
 PID - Photoionization Detector (Headspace Measurement)      Logged by: **AET & MAR**  
 Static Water Level      Approved by: **SJG**  
 Water Level (ATD)      Figure No. **A- 177**

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014





# Boring Log

Project Number  
110207

Boring Number  
REC1-MW-09

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. \_\_\_\_\_

Location: Everett, WA

Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access

Depth to Water (ft BGS) \_\_\_\_\_

Sampling Method: Continuous Core

Start/Finish Date 9/5/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	8" flush-mount monument and thermos cap Concrete surface seal			0		Asphalt		
0				0		Moist, brown, slightly silty SAND (SP-SM); fine sand		
0				0		Moist, dark brown to dark gray, silty, sandy GRAVEL (GM); fine subround gravel, fill debris		
0	3/8" hydrated bentonite chips	CC-1		0		Very moist, brown, very silty SAND (SM); fine sand, trace gravel, fill debris		
5	10/20 silica sand filter pack					No recovery		
5			REC1-MW-09-6-7	0		Very moist, dark brown, silty, very gravelly SAND (SP); fine sand, fill debris including brick		5
5				0		Becomes slightly gravelly Black 6.5' to 7'		
5		CC-2		0		Brown at 7'		
5				0		Black 7.75'-8'		
10	2" diameter PVC pre-packed .001 slot screen					Wet, dark gray, gravelly SAND (SP)		
10						No recovery		
10						Wet, brown, gravelly SAND (SP)		10
10						Wet, gray, silty, gravelly SAND (SM); poorly graded fine to medium sand		
10		CC-3				Wet, black, gravelly SAND (SP); poorly graded fine to medium sand		
15	Threaded cap Slough and bentonite					Brown 13.5' to 14.5'		
15						Wet, dark brown, gravelly, very silty SAND (SM); fine sand		15
15						Bottom of boring at 15' BGS		

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **AET & MAR**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 178**



# Boring Log

Project Number  
110207

Boring Number  
REC1-MW-10

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 18.8

Location: Everett, WA

Driller/Method: Holt / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core 3"

Start/Finish Date 11/1/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	8" flush-mount monument and thermos cap					Concrete slab		
	Concrete surface seal 0' to 5'		REC1-MW-10-2			Void space		
15	▽ 11/1/2013							
5	3/8" hydrated bentonite chips 5' to 7'		REC1-MW-10-5			Slightly moist, light brown, silty, SAND (SM); fine to medium sand, trace, fine gravel		5
		CC-2	REC1-MW-10-7			Slightly moist, gray, silty, SAND (SM)		
10	20/40 pre-packed silica sand filter 7' to 13'					No recovery		
10	2" diameter PVC pre-packed 10-slot screen 8' to 13'					Wet, gray, SAND (SW) and GRAVEL (GP); fine to coarse, subrounded sand, fine, subrounded gravel		10
		CC-3				Wet, brown, organic SILT (OL); numerous fibrous organics, wood chips		
	Threaded cap					Wood chips		
5	Slough					No recovery		
15						Bottom of boring 15'		15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **AHP**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 179**



# Boring Log

Project Number  
110207

Boring Number  
REC1-MW-11

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 18.89

Location: Everett, WA

Driller/Method: Holt / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core 3"

Start/Finish Date 11/1/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	8" Flush-mount monument and thermos cap Concrete surface seal 0' to 1' 3/8" Hydrated bentonite chips 1' to 2'						Recycled demo debris, hand cleared	
0-1							Brown, slightly moist, silty, gravelly, SAND (SM)	
1-2							Slightly moist, brown, slightly silty, SAND (SP-SM); medium, subrounded sand	
2-15		CC-1	REC1-MW-11-2				Slightly moist, brown, silty, gravelly, SAND (SM)	
15							No recovery	
5	11/1/2013 20/40 pre-pack Silica sand filter pack 2' to 13.25'						Wet, brown, sandy, silty, GRAVEL (GM); fine, subrounded gravel	5
5-10		CC-2	REC1-MW-11-7				Wet, gray, SILT (ML)	
10-10							Wet, gray, silty, SAND (SM); fine to coarse sand	
10-10							Wet, brown and black, organic SILT (OL); numerous organics, wood chips	
10-10							No recovery	
10-10	2" Diameter PVC pre-packed 10-slot screen 3' to 13'						Wet, brown and black, organic SILT (OL); wood chips	10
10-15		CC-3					No recovery	
15	Threaded cap Slough						Bottom of boring 15 feet	15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **AHP**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 180**



# Boring Log

Project Number  
110207

Boring Number  
REC1-MW-12

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 18.82

Location: Everett, WA

Driller/Method: Holt / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core 3"

Start/Finish Date 10/31/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	8" Flush-mount monument and thermos cap Concrete surface seal 0' to 1'						Concrete floor	
1.2				1.2			Slightly moist, brown, gravelly, SAND (SW); fine to coarse, subrounded sand	
1.7		CC-1	REC1-MW-12-3 REC1-MW-22-3					
1.4	3/8" Hydrated bentonite chips 1' to 5'			1.4			No recovery	
5								5
2.6				2.6			Slightly moist, brown, SAND (SW) and GRAVEL (GP); fine, rounded gravel	
7		CC-2	REC1-MW-12-7 REC1-MW-22-7				Slightly moist, brown, slightly gravelly, silty, SAND (SM); fine to medium, subrounded sand, fine, rounded gravel	
4.2				4.2			Wet, brown, sandy, SILT (ML)	
10							Wet, gray and brown, silty, SAND (SM); coarse, rounded sand	
10							No recovery	
10	10/20 pre-pack Silica sand filter pack 5' to 16.25'							10
1.3				1.3			Wet, gray, slightly gravelly, SAND (SW); fine to coarse, subrounded sand	
1.6		CC-3	REC1-MW-12-11 REC1-MW-22-11				Wet, red brown, organic SILT (OL); numerous organics, wood chips	
2.1				2.1			No recovery	
15								15
1.1	2" Diameter PVC pre-packed 10-slot screen 6' to 16' Threaded cap			1.1			Wet, red brown, organic SILT (OL); numerous organics, wood debris	
1.3				1.3				
1.4		CC-4					Wet, gray, SILT (ML)	
1.4				1.4			No recovery	
0.8	Slough 16.25' to 20'			0.8				
20							Bottom of boring at 20 feet	20

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **AHP**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 181**



### Boring Log

Project Number  
110207

Boring Number  
REC1-MW-14

Sheet  
1 of 1

Project Name: **Kimberly Clark**

Ground Surface Elev. 18.82

Location: Everett, WA

Driller/Method: Holt / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core 3"

Start/Finish Date 10/31/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
18.82	8" Flush-mount monument and thermos cap					Concrete floor	Concrete floor	
18.82	Concrete surface seal 0' to 1'						Dry, brown, SAND (SP) and GRAVEL (GP); fine to medium sand, fine gravel	
18.82	3/8" Hydrated bentonite chips 1' to 4'	CC-1		.3			Slightly moist, brown, slightly silty, SAND (SP-SM) and GRAVEL (GP-GM); fine gravel	
18.82				.2			Slightly moist, dark gray, SILT (ML)	
18.82				.7			Slightly moist, light brown and red brown, silty GRAVEL (GM) and GRAVEL (GP); fine gravel	
18.82				.4			Slightly moist, brown, silty, SAND (SM); medium to coarse sand	
18.82				.3			No recovery	
15				4			Slightly moist, brown, slightly gravelly, SAND (SP); fine to medium sand	5
15	20/40 pre-pack Silica sand filter pack 4' to 15'			2				
15				7				
15				14.5				
15		CC-2	REC1-MW-14-7	32.1			Wet, gray and light brown, slightly gravelly, SAND (SP); fine to medium sand, gas odor	
15				364				
15				158				
15				318			Wet, gray, slightly silty, SAND (SW-SM); fine to coarse sand, fine gravel	
15							No recovery	
10				834				
10	2" Diameter PVC pre-packed 10-slot screen 5' to 15'			1908			Wet, gray, slightly silty, SAND (SW-SM) and GRAVEL (GP-GM); fine to coarse sand, fine gravel, strong petroleum-like odor	10
10				3251				
10				1596				
10		CC-3	REC1-MW-14-11					
10				60				
10							No recovery	
5								
5				25.4				
5	Threaded cap			14.3			Wet, gray, slightly silty, SAND (SP-SM) with gravel; medium to coarse sand, no odor	15
5				26.7				
5	Slough			7.8				
5				4.3				
5		CC-4	REC1-MW-14-17					
5				2.7				
5							No recovery	
0								
0								
20							Bottom of boring at 20 feet	20

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **AHP**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

■ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 182**



# Boring Log

Project Number  
110207

Boring Number  
REC1-MW-15

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 14.44

Location: Everett, WA

Driller/Method: Holt / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core 3"

Start/Finish Date 11/13/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	8" Flush-mount monument and thermos cap						Recycled demo debris	
0 to 1'	Concrete surface seal			0				
1' to 4'	3/8" Hydrated bentonite chips			0			Slightly moist, brown, SAND (SW); fine to coarse, subangular sand	
		CC-1	REC1-MW-15-2				No recovery	
5	20/40 pre-pack Silica sand filter pack 4' to 15'			0			Wet, brown to gray, silty, SAND (SM); fine to coarse, subangular sand	5
	▽ 11/13/2013			0				
		CC-2	REC1-MW-15-6				Wet, gray, SILT (ML)	
				0			Wet, dark brown, organic SILT (OL); wood chips	
				0			No recovery	
5	2" Diameter PVC pre-packed 10-slot screen 5' to 15'			0			Very moist, red brown, SILT (ML)	10
				0			Very moist, gray, silty, SAND (SM); fine to medium sand	
				0			Very moist, red brown, organic SILT (OL); woody debris	
				0			Wet, gray, silty, SAND (SM); trace woody debris	
		CC-3		0			No recovery	
15	Threaded cap						Bottom of boring at 15 feet	15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AHP

○ No Recovery

▽ Static Water Level

Approved by: SJG

▮ Continuous Core

▽ Water Level (ATD)

Figure No. A- 183



### Boring Log

Project Number  
110207

Boring Number  
REC2-B-01

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-"Mini Me" Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 6/28/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	Backfilled with medium bentonite chips	CC-1		0		Concrete		
						Void		
				0		Moist, brown, gravelly SAND (SW); poorly graded fine-to-coarse sand, fine gravel		
5			REC2-B-1-5-6	0		Moist, brown, gravelly SAND (SP); fine sand, fine gravel		5
		CC-2	REC2-B-1-7-8	0		Moist, brown, gravelly SAND (SW); poorly graded fine-to-coarse sand, fine gravel		
			REC2-B-1-9-10	0		Wet, dark gray SAND (SP); fine sand with scattered seashells		
10				0		No recovery from 10' to 15'		10
		CC-3						
15							Bottom of boring at 15' BGS	15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 184



# Boring Log

Project Number  
110207

Boring Number  
REC2-B-02

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-"Mini Me" Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 6/28/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	Backfilled with medium bentonite chips	CC-1				Concrete		
						Void		
						Moist, brown, gravelly SAND (SW); poorly graded fine-to-coarse sand, fine gravel		
5			REC2-B-2-4.5-5.5	0		Moist, brown, slightly gravelly SAND (SP); fine sand, fine gravel		
			REC2-B-2-6-7	0			5	
		CC-2	REC2-B-2-8-9	0				
				0				
10				0				
		CC-3		0				
15				0			Bottom of boring at 15' BGS	15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET

No Recovery

Static Water Level

Approved by: SJG

Continuous Core

Water Level (ATD)

Figure No. A- 185





# Boring Log

Project Number  
110207

Boring Number  
REC2-B-03

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-"Mini Me" Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 6/28/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
						Concrete		
						Void		
	Backfilled with medium bentonite chips							
		CC-1		0		Moist, brown, gravelly SAND (SW); poorly graded fine-to-coarse sand, fine gravel		
				0		Moist, orange-brown, gravelly SAND (SP); fine sand, fine gravel		
5				0				5
			REC2-B-3-5.5-6.5	0		Very moist, gray SAND (SW); poorly graded fine-to-coarse sand		
				0		Moist, gray-orange SILT (ML)		
		CC-2	REC2-B-3-7-8	0		Wet, brown SAND (SW); poorly graded fine-to-coarse sand		
				0				
			REC2-B-3-9-10	0		Wet, brown gravelly SAND (SP); poorly graded fine-to-medium sand		
10		CC-3		0				10
							Refusal at 11'; bottom of boring at 11' BGS	
15								15

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: AET

Approved by: SJG

Figure No. A- 186



# Boring Log

Project Number  
110207

Boring Number  
REC2-B-04

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 5/23/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
						Asphalt		
	Backfilled with medium bentonite chips		REC2-B-4-1.5-2.5	9.5		Very moist, brown to black GRAVEL (GP); fine subangular to angular gravel; slight petroleum-like odor and bleb sheen		
		CC-1		11.8				
				1.2				
			REC2-B-4-4-5	1.3		Very moist, gray SAND (SP); poorly graded fine-to-medium sand		
							Wet at 3.5' BGS	
5				1.2				5
				0.3				
			REC2-B-4-6.5-7.5	0.3		Trace gravel, fine sand from 7' to 9.5' BGS with shell fragments		
		CC-2		0.3				
				0.3				
10				0.3				10
				0.3				
				0.3				
				0.3				
		CC-3		0.3				
				0.3				
15				0.3				15
							Bottom of boring at 15' BGS	

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **MAR**

Approved by: **SJG**

Figure No. **A- 187**



### Boring Log

Project Number  
110207

Boring Number  
REC2-B-05

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 5/24/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
						Asphalt		
				0.5		Very moist, brown SAND (SW); poorly graded fine-to-coarse sand		
			REC2-B-5-2-3	0.5		Wet at 2' BGS		
		CC-1		0.2				
				0.2		Wet, gray, silty SAND (SM); fine sand		
5	Backfilled with medium bentonite chips			0.1				5
		CC-2		0.1		Wet, brown SAND (SW); poorly graded fine-to-coarse sand		
			REC2-B-5-7-8	0.1				
				0.2		Gray at 8' to 10' BGS		
				0.3				
10				0.3		Wet, gray SAND (SP); trace gravel, medium to coarse sand		10
				0.3				
		CC-3		0.6				
				0.6				
15						Wood 14' to 15' BGS		15
						Bottom of boring at 15' BGS		

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **MAR**

Approved by: **SJG**

Figure No. **A- 188**



# Boring Log

Project Number  
110207

Boring Number  
REC2-B-06

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-"Mini Me" Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 6/28/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	Backfilled with medium bentonite chips	CC-1				Concrete		
						Void		
				0		Moist, brown, gravelly SAND (SW); poorly graded fine-to-coarse sand, fine gravel		
				0				
5				0				5
		CC-2	REC2-B-6-6-7	0		Moist to wet, brown SAND (SP); poorly graded fine-to-medium sand		
				0				
			REC2-B-6-8-9	0		Wet, gray, sandy SILT (ML); fine sand		
				0				
10			REC2-B-6-10-11	0		Wet, brown SAND (SP); poorly graded fine-to-medium sand		10
				0				
		CC-3		0		1' vertically split wet, brown SAND (SP); poorly graded fine-to-medium sand, and wet, gray SILT (ML)		
				0				
				0		Wet, brown SAND (SP); poorly graded fine-to-medium sand		
				0				
15						Bottom of boring at 15' BGS		15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 189



### Boring Log

Project Number  
110207

Boring Number  
REC2-B-07

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 5/23/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
						Asphalt		
						Very moist, slightly silty GRAVEL (GP)		
				16.8				
				1.6				
				0.8				
		CC-1	REC2-B-7-4-5	0.6		Very moist, gray to brown SAND (SP); poorly graded fine-to-medium sand		
5	Backfilled with medium bentonite chips			0.6		Wet at 4' BGS		5
				0.3				
		CC-2	REC2-B-7-6.5-7.5	0.3		Slightly silty, gray SAND (SP); fine sand		
				0.3				
				0.3				
		CC-3		0.3		Shell fragments 9' to 10', fine-to-medium sand		
10				0.3				10
				0.3				
				0.3				
				0.3				
				0.3				
				0.3				
				0.3				
15				0.3				15
							Bottom of boring at 15' BGS	

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **MAR**

Approved by: **SJG**

Figure No. **A- 190**



# Boring Log

Project Number  
110207

Boring Number  
REC2-B-08

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 5/23/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0						Asphalt		
	Backfilled with medium bentonite chips	CC-1				Moist, brown, silty, sandy GRAVEL (GM); fine subangular gravel, slight bleb sheen		
				2.7				
				10.3				
			REC2-B-8-4-5	1.4		Moist, dark gray, slightly silty, slightly gravelly SAND (SP); poorly graded fine-to-medium sand		
5				7.3		Wet at 4.5' BGS, Faint petroleum-like odor from 4.5' to 7' BGS	5	
		CC-2		8.0		Wet, gray SAND (SP); trace gravel, fine-to-medium sand		
				1.5				
				0.8				
				0.8				
10			REC2-B-8-10-11	0.8				10
				0.3				
		CC-3		0.3				
				0.3				
				0.3				
				0.3		Wet, gray, very sandy SILT (ML)		
				0.3		Wet, brown PEAT (PT)		
15				0.3		Bottom of boring at 15' BGS	15	

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **MAR**

Approved by: **SJG**

Figure No. **A- 191**



# Boring Log

Project Number  
110207

Boring Number  
REC2-B-09

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 5/24/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
						Asphalt		
				0.4		Very moist, gravelly SAND (SW); poorly graded fine-to-coarse sand, strong petroleum-like odor, moderate to heavy bleb sheen		
				0.5				
			REC2-B-9-2-3	21.3			Wet at 2' BGS	
	Backfilled with medium bentonite chips	CC-1		28.0		Wet, gray, silty, sandy GRAVEL (GM); fine subangular gravel, strong petroleum-like odor, moderate to heavy bleb sheen, black product present in soil sample		
					30.0		6.0	
5				7.0		Wet, gray SAND (SP); medium to coarse sand, trace gravel, strong petroleum-like odor		5
				3.5				
			REC2-B-9-6-7	382.2				
				101.5		Wet, gray, SAND (SP); fine sand		
				156.5				
		CC-2	REC2-B-9-7.5-8.5	9.5				
				7.0		Medium to coarse sand 12' to 14' BGS		
				7.0				
		CC-3		2.0				
				1.8		Wet, gray, very sandy GRAVEL (GP); fine, subrounded gravel.		
				2.0				
				1.7				
10				2.0		Bottom of boring at 15' BGS		10
				1.3				
				2.7				
15								15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MAR**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 192**



# Boring Log

Project Number  
110207

Boring Number  
REC2-B-10

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-"Mini Me" Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 6/28/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
							Void	
	Backfilled with medium bentonite chips						Concrete rubble	
		CC-1		0			Slightly moist, brown, gravelly SAND (SW); poorly graded fine-to-coarse sand, fine gravel	
				0				
				0				
5			REC2-B-10-5-6				Moist, brown, slightly silty, gravelly SAND (SP-SM); poorly graded fine-to-medium sand, fine gravel, fine gravel	5
		CC-2	REC2-B-10-7-8	0.5			Very moist to wet, blue-gray SAND (SP); poorly graded fine-to-medium sand	
				1.3			Very moist, dark brown, sandy SILT (ML); poorly graded fine-to-medium sand	
				0.6			Very moist to wet, blue-gray SAND (SP); poorly graded fine-to-medium sand	
10			REC2-B-10-10-11	0				10
				0				
		CC-3		0				
				0				
15				0			Bottom of boring at 15' BGS	15

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: AET

Approved by: SJG

Figure No. A- 193





# Boring Log

Project Number  
110207

Boring Number  
REC2-B-11

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 5/24/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	Backfilled with medium bentonite chips					Asphalt		
		CC-1	REC2-B-11-3-4	18.4 46.9 107.5 179.4 103.8 46.6		Moist, black, gravelly SAND (SP); poorly graded fine-to-medium sand, very strong petroleum-like odor, moderate to heavy rainbow and bleb sheen mix		
5				43.2 36.0 37.5 55.6 296.8		Wet, color changes to brown, fine sand, no gravel		5
		CC-2	REC2-B-11-7.5-8.5	123.6		Wet, gray SAND (SP); poorly graded fine-to-medium sand, strong petroleum-like odor, moderate metallic sheen		
				69.8 42.2 15.6		Slightly silty		
10			REC2-B-11-11-12	1.3		Wet, gray, gravelly SAND (SP/SW); poorly graded fine-to-coarse sand		10
		CC-3		1.2 1.2 1.8 1.2				
15						Bottom of boring at 15' BGS		15

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **MAR**

Approved by: **SJG**

Figure No. **A- 194**



# Boring Log

Project Number  
110207

Boring Number  
REC2-B-12

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 5/23/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
						Asphalt		
						Concrete rubble, fill debris: burlap		
	Backfilled with medium bentonite chips	CC-1		0.5				
				2.8			Moist, gray SAND (SW); trace silt, fine to coarse sand, petroleum-like odor	
				11.8			Moist, brown, silty SAND (SM); trace gravel, fine-to-medium sand, numerous organics-roots	
5	▼		REC2-B-12-5-6	4.5			Wet, dark gray SAND (SP); poorly graded fine-to-medium sand, strong petroleum-like odor, moderate to heavy bleb sheen from 5' to 10' BGS, sticky brown to black product present	5
		CC-2		28.8				
			REC2-B-12-8-9	76.8				
				108.9				
				110.1				
				466.6				
10		CC-3		84.5			Trace gravel	10
				43.5				
				91.7				
				63.7				
				42.5			Refusal at 14' BGS, moved hole ~6 inches to re-drill	
15		CC-4		8.0			Wet, dark brown to dark gray SAND (SP); trace silt and trace gravel	15
			REC2-B-12-17-18	1.7				
				0.8				
				0.8				
				0.8				
				0.8			Bottom of boring at 20' BGS	

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- ▼ Static Water Level
- ▽ Water Level (ATD)

Logged by: MAR

Approved by: SJG

Figure No. A- 195



# Boring Log

Project Number  
110207

Boring Number  
REC2-B13

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/14/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0				0			Medium stiff, slightly moist, brown, sandy, gravelly SILT (ML)	
0				0				
0				0				
7				7				
0		CC-01		0				
29				29			Stiff, slightly moist, dark brown, slightly gravelly, slightly sandy SILT (ML)	
							No recovery	
5	Hydrated bentonite chip backfill		REC2-B13-5 REC2-B513-5					5
				52			Medium stiff, slightly moist, dark brown, slightly sandy SILT (ML)	
				44			Medium dense, slightly moist, gray, SAND (SW); fine to coarse sand Woody debris	
				58			Medium stiff, slightly moist, gray SILT (ML)	
		CC-02		45				
	▽ 11/14/2013			10				
				22				
				76			Wet	
				471			Medium dense, wet, gray SAND (SW); fine to coarse sand, petroleum-like odor	
							No recovery	
10								10
				69			Medium stiff, wet, gray SILT (ML)	
				799			Medium dense, wet, gray, slightly silty SAND (SW-SM); fine to coarse sand, petroleum-like odor	
				649				
		CC-03	REC2-B13-12 REC2-B513-12	843				
				94				
				397				
				51			Stiff, wet, gray brown, silty SAND (SM)	
				41				
15			REC2-B13-14					15
							Bottom of boring 15 feet Note: Density and consistency was estimated based on sample observations.	

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AHP

○ No Recovery

▽ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 196



# Boring Log

Project Number  
110207

Boring Number  
REC2-B14

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/14/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)	
	Hydrated bentonite chip backfill	CC-01					Loose, dry, light brown, silty, sandy GRAVEL (GM); fine rounded gravel, fine to coarse sand		
				1				Medium stiff, slightly moist, brown, sandy SILT (ML); fine to medium sand	
				2				Dense, slightly moist, dark brown, silty, GRAVEL (GM); fine to medium subangular gravel	
				2				Becomes medium dense, gray	
				2				No recovery	
5									Medium stiff, slightly moist, brownish gray, slightly gravelly SILT (ML)
	Hydrated bentonite chip backfill	CC-02					Loose, dry, light gray, silty GRAVEL (GM); fine rounded gravel		
				1				Medium stiff, slightly moist, dark brown SILT (ML)	
				2				Medium dense, slightly moist, brown, silty SAND (SM)	
				2				Wet	
				6				Becomes gray, petroleum-like odor	
				1					
	Hydrated bentonite chip backfill	CC-03					Medium dense, wet, gray, silty SAND (SM); fine to coarse sand		
				20				Medium stiff, wet, gray SILT (ML)	
				1364				No recovery	
				840					
				1116					
				195					
10							Medium stiff, wet, gray SILT (ML)	10	
	Hydrated bentonite chip backfill	CC-03					No recovery		
				68					
				39					
	Hydrated bentonite chip backfill	CC-03					Medium stiff, wet, gray SILT (ML)		
				27				No recovery	
				202					
	Hydrated bentonite chip backfill	CC-03					Medium stiff, wet, gray SILT (ML)		
				22				No recovery	
				22					
	Hydrated bentonite chip backfill	CC-03					Medium stiff, wet, gray SILT (ML)		
				21				No recovery	
15							Bottom of boring 15 feet Note: Density and consistency was estimated based on sample observations.	15	

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AHP

No Recovery

Static Water Level

Approved by: SJG

Continuous Core

Water Level (ATD)

Figure No. A- 197



# Boring Log

Project Number  
110207

Boring Number  
REC2-B15

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/15/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0.3	[Continuous Core]	CC-01	REC2-B15-2	0.3	0.2	[Silty Sand]	Medium dense, slightly moist, brown, silty SAND (SM); fine to medium sand	0.1
0.2								
0.1								
1	[Continuous Core]	CC-02	REC2-B15-6.5	1	[No Recovery]	[No Recovery]	No recovery	5
69								
95								
59	[Continuous Core]	CC-02	REC2-B15-6.5	59	58	[Gravelly Sand]	Medium dense, wet, gray, slightly silty, gravelly SAND (SW-SM); fine to coarse subrounded sand, fine gravel, petroleum-like odor	5
58								
74								
64	[Continuous Core]	CC-03	REC2-B15-11	74	64	[Organic Silt]	Stiff, moist, dark brown, organic SILT (OL)	10
64								
18								
15	[Continuous Core]	CC-03	REC2-B15-11	15	13	[Silty Sand]	Medium stiff, wet, gray silty SAND (SM); fine to medium subangular sand	10
13								
12								
11	[Continuous Core]	CC-03	REC2-B15-11	11	10	[Silty Sand]	Medium stiff, wet, gray silty SAND (SM); fine to medium subangular sand	10
10								
10								
15	[Continuous Core]	CC-03	REC2-B15-11	10	[No Recovery]	[No Recovery]	No recovery	15
15								
Bottom of boring 15 feet								

▽ 11/15/2013  
Hydrated bentonite chip backfill

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AHP

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 198



### Boring Log

Project Number  
110207

Boring Number  
REC2-B16

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/15/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)				
1	[Solid black bar]	CC-01				[Vertical lines pattern]	Medium stiff, slightly moist, brown, slightly gravelly, silty SAND (SM); fine to coarse sand, fine subrounded gravel	1				
2							Becomes gray, trace gravel	2				
3							No recovery	3				
4							[X pattern]	4				
5							Same as above	5				
6	[Solid black bar]	CC-02	REC2-B16-5	33	6	[Dotted pattern]	Medium dense, wet, gray SAND (SW); fine to coarse subrounded sand, slight petroleum-like odor	6				
7							Hydrated bentonite chip backfill	REC2-B16-6	9	[Horizontal lines pattern]	Medium stiff, wet, brown, ORGANIC SILT (OL), with woody debris	7
8								REC2-B16-7	6		No recovery	8
9									0	[X pattern]	9	
10			49			Refusal at 10 feet due to wood Note: Density and consistency was estimated based on sample observations.	10					

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AHP

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

∇ Water Level (ATD)

Figure No. A- 199

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014



# Boring Log

Project Number  
110207

Boring Number  
REC2-B17

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/14/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	Hydrated bentonite chip backfill	CC-01		0	0	Loose, dry, brown, slightly silty, slightly gravelly SAND (SW-SM); fine to coarse, subrounded sand	0	
0				0	Medium stiff, slightly moist, reddish brown, silty SAND (SM); fine to medium sand			
0				0	No recovery			
5	Hydrated bentonite chip backfill	CC-02	REC2-B17-5.5	0	0	Medium stiff, slightly moist, brown, sandy SILT (ML); fine to very coarse, subrounded sand	5	
0				0	Wet			
0				0	No recovery			
10	Hydrated bentonite chip backfill	CC-03	REC2-B17-11	0	0	Soft, wet, gray SILT (ML)	10	
0				0	Medium dense, wet, gray, slightly silty SAND (SW-SM); fine to coarse subrounded sand			
0				0	No recovery			
15						Bottom of boring 15 feet Note: Density and consistency was estimated based on sample observations.	15	

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AHP

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 200



# Boring Log

Project Number  
110207

Boring Number  
REC2-B18

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/14/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
							Loose, dry, brown gray, silty, gravelly SAND (SM)	
			REC2-B18-1	36				
				1			Medium stiff, slightly moist, brown fine to medium SAND (SP)	
				0			Becomes wet, coarse sand	
			REC2-B18-2	0			Medium stiff, wet, gray SILT (ML)	
		CC-01		9			Medium dense, wet, gray, silty SAND (SM); fine to coarse sand	
				0			No recovery	
5	Hydrated bentonite chip backfill							
			REC2-B18-6	0			Medium dense, wet, gray, silty SAND (SM); fine to coarse sand	5
		CC-02		0				
				0			No recovery	
				0				
				0				
				0				
				0				
10							Medium dense, wet, gray, silty SAND (SM)	10
		CC-03					Soft, wet, gray SILT (ML)	
							Medium stiff, very moist, reddish brown, organic SILT (OL); with woody debris	
							No recovery	
15							Bottom of boring 15 feet Note: Density and consistency was estimated based on sample observations.	15

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **AHP**

Approved by: **SJG**

Figure No. **A- 201**





### Boring Log

Project Number  
110207

Boring Number  
REC2-B19

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/14/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)		
0	Hydrated bentonite chip backfill	CC-01		0	0	[Material Type: Sand]	Medium dense, slightly moist, light brown, slightly silty SAND (SW-SM); fine to coarse sand	0		
0							0	[Material Type: Silty Sand]	Medium dense, slightly moist, brown, sandy, gravelly SILT (ML); fine gravel, fine to coarse sand	0
0							0	[Material Type: No Recovery]	No recovery	0
5	Hydrated bentonite chip backfill	CC-02		0	0	[Material Type: Silty Sand]	Medium dense, slightly moist, brown, sandy, gravelly SILT (ML); fine gravel, fine to coarse sand	5		
0							0	[Material Type: Wet]	Wet	0
0							0	[Material Type: Silty Sand]	Becomes gray, with medium sand	0
10	Hydrated bentonite chip backfill	CC-03		0	0	[Material Type: No Recovery]	No recovery	10		
0							0	[Material Type: Silty Sand]	Stiff, moist, gray SILT (ML)	0
0							0	[Material Type: Gravel]	Medium dense, wet, dark gray, silty GRAVEL (GM); medium subrounded gravel	0
15	Hydrated bentonite chip backfill	CC-03		0	0	[Material Type: Organic Silty Sand]	Stiff, moist, brown organic SILT (OL)	15		
0							0	[Material Type: No Recovery]	No recovery	0
Bottom of boring							Bottom of boring 15 feet Note: Density and consistency was estimated based on sample observations.			

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AHP

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 202



# Boring Log

Project Number  
110207

Boring Number  
REC2-B20

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/14/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	[Continuous Core]	CC-01	REC2-B20-1	0	0	Medium stiff, slightly moist, dark gray, silty, gravelly, SAND (SM)	5	
0.2				0	Crushed crystalline rock			
0				0	Stiff, moist, gray, slightly gravelly SILT (ML)			
5	[Continuous Core]	CC-02	REC2-B20-6	0	0	No recovery	5	
0.2				0	Soft, wet, gray, sandy gravelly SILT (ML); fine to medium sand Becomes slightly gravelly			
0.8				0.7	Stiff, moist, light brown and dark brown, organic SILT (OL), with woody debris Stiff, wet, black SILT (ML), with woody debris			
10	[Continuous Core]	CC-03	REC2-B20-12	0	0	No recovery	10	
0				0	Stiff, moist, black and brown, organic SILT (OL)			
0				0	Dense, wet, gray, slightly silty SAND (SW-SM); fine to coarse subangular sand			
15	[Continuous Core]			0	0	No recovery	15	
15							Bottom of boring 15 feet Note: Density and consistency was estimated based on sample observations.	15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AHP

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 203



# Boring Log

Project Number  
110207

Boring Number  
REC2-B21

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/14/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
							Loose, moist, dark brown, silty SAND (SM)	
	▽ 11/14/2013			0			Soft, wet, gray SILT (ML)	
				0				
		CC-01		0			No recovery	
5	Hydrated bentonite chip backfill							5
				0			Soft, wet, gray SILT (ML)	
				0			Becomes stiff	
				0			Medium dense, wet, gray SAND (SP); medium sand	
				0			Woody debris	
		CC-02	REC2-B21-7	0			Medium dense, wet, gray SAND (SP); medium sand	
				0			Stiff, wet, brown SILT (ML)	
				0			Becomes gray	
				0			Dense, wet, black, gravelly, silty SAND (SM); trace woody debris	
10			REC2-B21-9				No recovery	10
							Soft, wet, gray to black silty SAND (SM)	
							Stiff, wet, black and brown, organic SILT (OL); with woody debris	
		CC-03	REC2-B21-11					
							No recovery	
15							Bottom of boring 15 feet Note: Density and consistency was estimated based on sample observations.	15

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- ▼ Static Water Level
- ▽ Water Level (ATD)

Logged by: **AHP**

Approved by: **SJG**

Figure No. **A- 204**



### Boring Log

Project Number  
110207

Boring Number  
REC2-B-22

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 3" Start/Finish Date 11/1/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
1		CC-1      CC-2	REC-2-B-22-1.5 REC1-MW-23-1.5  REC2-B-22-2 REC1-MW-23-2    REC2-B-22-6 REC1-MW-23-6	0   2.1  1.7   14.1  64.2  24.8		Concrete slab	1	
1						Dry, brown, gravelly, silty, SAND (SM)	1	
2						Wet, brown, gravelly, silty, SAND (SM)	2	
2						Wet, gray, silty, SAND (SM)	3	
3						Wet, dark gray, SILT (ML)	4	
4						No recovery	5	
5						Wet, gray, SILT (ML)	6	
6	Wet, gray, silty, SAND (SM) and silty, GRAVEL (GM); fine to coarse, subangular gravel	7						
7	Refusal at 7 feet							

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AHP

No Recovery

Static Water Level

Approved by: SJG

Continuous Core

Water Level (ATD)

Figure No. A- 205



# Boring Log

Project Number  
110207

Boring Number  
REC2-MW-05

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 15.4

Location: Everett, WA

Driller/Method: Cascade Drilling / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core

Start/Finish Date 5/29/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
15	8" Flush-mount monument set in concrete and thermos cap							
	10/20 pre-pack Silica sand filter pack 1' to 12'		REC2-MW-5-0-2	9.4			Post-holed to 2' for utilities Moist, dark gray to black, slightly gravelly, very silty SAND (SM); fine sand, petroleum-like odor, slight bleb sheen from 0' to 2' BGS	
				0				
		CC-1	REC2-MW-5-2.5-3.5	0			Wet, gray, slightly silty, slightly gravelly SAND (SP); poorly graded fine-to-medium sand	
				0				
5				0				5
				0				
10	2" Diameter PVC pre-packed .001 slot screen 2' to 12'		REC2-MW-5-7-8	0				
		CC-2		0			Black at 8'	
				0			Wet, gray SILT (ML)	
				0			Wet, dark gray, SAND (SP); fine sand	
10				0				10
				0			Wet, gray SILT (ML)	
				0			Wet, dark gray, slightly silty SAND (SP); fine sand	
		CC-3		0				
	Threaded cap			0				
	Slough			0			Numerous organics (shell fragments) from 12.5' to 13' BGS	
				0			Bottom of boring at 13' BGS	
15				0				15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MAR**

No Recovery

Static Water Level

Approved by: **SJG**

Continuous Core

Water Level (ATD)

Figure No. **A- 206**



# Boring Log

Project Number  
110207

Boring Number  
REC3-MW-01

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 15.02

Location: Everett, WA

Driller/Method: Cascade Drilling / Direct Push Probe

Depth to Water (ft BGS) \_\_\_\_\_

Sampling Method: Continuous Core

Start/Finish Date 6/5/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	8" Flush-mount monument and thermos cap Concrete surface seal 0' to 2'			0		Concrete	Concrete-top 8" cored	0
0		CC-1		0			Moist, brown SAND (SP); trace silt, trace gravel, fine-to-medium sand	0
0	3/8" Hydrated bentonite chips 2' to 4'			0				0
0	10/20 pre-pack Silica sand filter pack 4' to 15'			0				0
5		CC-2		0				5
0				0			Wet, slightly silty	0
0	4" Diameter PVC pre-packed .001 slot screen 5' to 15'			0				0
0		REC3-MW-1-8.5-9.5		0				0
0				0			1" lens of silt at 14' BGS	0
0	Threaded cap	CC-3		0				0
15				0			Bottom of boring at 15' BGS	15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MAR**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 207**



# Boring Log

Project Number  
110207

Boring Number  
REC3-MW-01R

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 15.07

Location: Everett, WA

Driller/Method: Holt / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core 3"

Start/Finish Date 11/11/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	8" Flush-mount monument and thermos cap Concrete surface seal 0' to 1'						Gravelly, sandy crushed concrete FILL	
	3/8" Hydrated bentonite chips 1' to 5'	CC-1		0			Slightly moist, brown to dark brown, gravelly, silty, SAND (SM); fine to coarse sand, fine gravel	
				0			No recovery	
5				0			Slightly moist, brown to dark brown, gravelly, silty, SAND (SM); fine to coarse sand, fine gravel	5
		CC-2		0			No recovery	
10	10/20 pre-pack Silica sand filter pack 5' to 16.25'			0			Wet, brown to dark brown, gravelly, silty, SAND (SM); fine to coarse sand, fine gravel	10
		CC-3		0			No recovery	
15	2" Diameter PVC pre-packed 10-slot screen 6' to 16' Threaded cap			0			Wet, gray, silty, gravelly, SAND (SM); fine to coarse sand, fine, subangular gravel	15
		CC-4		0			Wood chips at 17 feet	
	Slough 16.25' to 20'			0			No recovery	
20							Bottom of boring at 20 feet	20

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **AHP**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 208**



### Boring Log

Project Number  
110207

Boring Number  
REC5-HA-01

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Aspect / Hand Auger Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Grab Start/Finish Date 9/5/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	Backfilled with excavated material		REC5-H4-01-0-1			Asphalt		
			REC5-H4-01-1-2			Slightly moist, brown, SAND (SP); poorly graded fine to medium sand Becomes gravelly		
						Refusal at 2' BGS (concrete slab)		
5								5
10								10
15								15
20								20
25								25

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Grab Sample

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **AET/ERP**

Approved by: **SJG**

Figure No. **A- 209**





# Boring Log

Project Number  
110207

Boring Number  
REC5-HA-02

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Aspect / Hand Auger Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Grab Start/Finish Date 9/5/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	Backfilled with excavated material		REC5-HA-02-0-1			Asphalt		
			REC5-HA-02-2-3			Slightly moist, brown, slightly gravelly SAND (SP); poorly graded fine to medium sand		
5							Bottom of boring at 3' BGS	5
10								10
15								15
20								20
25								25

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Grab Sample

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **AET/ERP**

Approved by: **SJG**

Figure No. **A- 210**



### Boring Log

Project Number  
110207

Boring Number  
REC5-HA-03

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Aspect / Hand Auger Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Grab Start/Finish Date 9/5/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	Backfilled with excavated material		REC5-HA-03-0-1			Asphalt		
			REC5-HA-03-2-3			Slightly moist, brown to gray, slightly silty SAND (SP-SM)		
							Bottom of boring at 3' BGS	
5								5
10								10
15								15
20								20
25								25

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Grab Sample

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **AET/ERP**

Approved by: **SJG**

Figure No. **A- 211**



### Boring Log

Project Number  
110207

Boring Number  
REC5-HA-04

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Aspect / Hand Auger Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Grab Start/Finish Date 9/5/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	Backfilled with excavated material		REC5-HA-04- 0-1			Asphalt		
			REC5-HA-04- 2-3			Slightly moist, brown to gray, slightly gravelly SAND (SP)		
							Bottom of boring at 3' BGS	
5								5
10								10
15								15
20								20
25								25

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Grab Sample

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **AET/ERP**

Approved by: **SJG**

Figure No. **A- 212**



### Boring Log

Project Number  
110207

Boring Number  
REC5-HA-05

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Aspect / Hand Auger Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Grab Start/Finish Date 9/5/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	Backfilled with excavated material		REC5-HA-05-0-1			Asphalt		
			REC5-HA-05-2-3			Slightly moist, brown to gray, slightly gravelly SAND (SP)		
5							Bottom of boring at 3' BGS	5
10								10
15								15
20								20
25								25

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Grab Sample

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **AET/ERP**

Approved by: **SJG**

Figure No. **A- 213**



# Boring Log

Project Number  
110207

Boring Number  
REC5-MW-01

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 15.83

Location: Everett, WA

Driller/Method: Cascade Drilling / Direct Push Probe

Depth to Water (ft BGS) \_\_\_\_\_

Sampling Method: Continuous Core

Start/Finish Date 6/5/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
15	8" Flush-mount monument and thermos cap Concrete surface seal 0' to 2'			0		Concrete	Concrete-cored to 1'	
0.4		CC-1					Moist, dark gray SAND (SP); trace gravel, fine-to-medium sand	
1.5	3/8" Hydrated bentonite chips 2' to 4'						Slight metallic sheen at 3' BGS, fine sand	
7.5				137.5			Wood at 4' BGS	
137.5				60.5				
60.5	10/20 pre-pack Silica sand filter pack 4' to 15'			13.5				
13.5				1.5				5
1.5				1.2				
10		REC5-MW-1-6.5-7.5					Wet, gray, silty SAND (SM); fine sand	
0.3		CC-2						
0.2				0.2			Wet, gray, SAND (SP); poorly graded fine-to-medium sand, trace coarse sand	
0.2	2" Diameter PVC pre-packed .001 slot screen 5' to 15'			0.2				10
10								
5								
12.5		CC-3					Wet, dark gray, very silty SAND (SM); fine sand, wood at 12.5' BGS	
12.5								
15	Threaded cap						Wet, gray SILT (ML); frequent organics-shell fragments	
15							Wet, gray, very silty SAND (SM); fine sand	15
15							Bottom of boring at 15' BGS	

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MAR**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 214**



# Boring Log

Project Number  
110207

Boring Number  
REC5-MW-01R

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 16.22

Location: Everett, WA

Driller/Method: Cascade Drilling / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core 3"

Start/Finish Date 11/11/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
15	8" flush-mount monument and thermos cap Concrete surface seal 0' to 1'					Recycled demo debris		
	3/8" hydrated bentonite chips 1' to 5'	CC-1		0		Moist, brown, SAND (SP); medium, subangular sand		
				0		Slightly moist, light gray to gray, SILT (ML) with interbedded wood chips		
				0		No recovery		
5				0		Slightly moist, gray, SILT (ML)		5
				0		Becomes wet at 7.5 feet		
10	10/20 pre-packed silica sand filter 5' to 16'	CC-2		0		Wet, gray, SAND (SP); medium sand		
				0		No recovery		
10				0		Slightly moist, brown, very silty, SAND (SM)		10
5				0		Wet, gray, SAND (SP); medium to coarse sand		
	2" diameter PVC pre-packed 10-slot screen 5.75' to 15.75'	CC-3		0		Wet, gray, slightly sandy, SILT (ML); fine sand		
				0		No recovery		
15		CC-4		0		No recovery		15
0	Threaded cap					Bottom of boring at 16 feet		

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **AHP**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 215**



# Boring Log

Project Number  
110207

Boring Number  
REC6-MW-01

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 15.66

Location: Everett, WA

Driller/Method: Cascade Drilling / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core

Start/Finish Date 6/27/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
15	8" Flush-mount monument set in concrete and thermos cap					Concrete		
	3/8" Hydrated bentonite chips 1' to 1.5'					Pea gravel, white liquid at bottom of pea gravel		
	10/20 pre-pack Silica sand filter pack 1.5' to 12.5'	CC-1		7		Wet, brown, SAND (SP); poorly graded fine-to-medium sand		
				1		Pea gravel		
5				1		Wet, dark gray, sandy SILT (ML); trace gravel , strong sweet odor		5
10	2" Diameter PVC pre-packed .001 slot screen 2.5' to 12.5'	CC-2	REC6-MW-1-6	55				
				20				
10				50				10
5		CC-3						
	Threaded cap			50				
							Bottom of boring at 12.5' BGS	
15								15
0								

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **AET**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 216**



# Boring Log

Project Number  
110207

Boring Number  
REC6-MW-02

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 17.12

Location: Everett, WA

Driller/Method: Cascade Drilling / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core

Start/Finish Date 5/25/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	8" Flush-mount monument and thermos cap Concrete surface seal 0' to 2'			0		Asphalt		
0				0		Top 2' post-holed for utilities; Wood chips		
15	3/8" Hydrated bentonite chips 2' to 4'	CC-1		0		Moist, dark gray, sandy, very silty GRAVEL (GM); poorly graded fine-to-coarse gravel		
5	10/20 pre-pack Silica and filter pack 4' to 15'			0		Wood chips		5
10		CC-2		0		Wet, dark gray, very silty GRAVEL (GM); poorly graded fine-to-coarse subrounded gravel		
10	2" Diameter PVC pre-packed .001 slot screen 5' to 15'			0		Wet, gray and brown (mottled), slightly sandy, gravelly SILT (ML)		10
5		CC-3		0		Wet, black to dark gray, very sandy, very silty GRAVEL (GM); poorly graded fine-to-coarse subrounded to subangular gravel; slight H2S odor		
15	Threaded cap			0		Bottom of boring at 15' BGS		15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MAR**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 217**





# Boring Log

Project Number  
110207

Boring Number  
REC7-MW-01

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 13.53

Location: Everett, WA

Driller/Method: Cascade Drilling / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core

Start/Finish Date 5/29/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	8" Flush-mount monument and thermos cap Concrete surface seal 0' to 2'			0		Gravel fill	Gravel fill; driller post-holed to 2' BGS for utilities	
0				0		Moist, brown, silty, gravelly SAND (SM); fine sand, iron-staining		
10	3/8" Hydrated bentonite chips 2' to 4'	CC-1		0		Moist, gray SILT (ML)		
5	10/20 pre-pack Silica sand filter pack 4' to 15'			0		Moist, gray SAND (SP); fine sand		5
				0		Moist, brown SAND (SP); medium sand		
				0		Woody debris at 7' BGS		
5		CC-2		0		Wet, gray SAND (SP); medium sand, rare organics-shell fragments		
10	2" Diameter PVC pre-packed .001 slot screen 5' to 15'			0				10
				0			Trace to numerous organics 11' to 15' BGS	
0		CC-3						
15	Threaded cap						Bottom of boring at 15' BGS	15
-5								

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MAR**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 218**



# Boring Log

Project Number  
110207

Boring Number  
REC7-MW-02

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 15.49

Location: Everett, WA

Driller/Method: Cascade Drilling / Direct Push Probe

Depth to Water (ft BGS) \_\_\_\_\_

Sampling Method: Continuous Core

Start/Finish Date 5/25/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
15	8" Flush-mount monument and thermos cap Concrete surface seal 0' to 2'			0		Asphalt		
	3/8" Hydrated bentonite chips 2' to 3'	CC-1		0		Moist, brown, sandy, very gravelly SILT (ML); fine subrounded gravel		
	10/20 pre-pack Silica sand filter pack 3' to 15'			0				
5				0		Black, charred debris		5
10		CC-2		0		Wet, brown, silty SAND (SM); fine sand		
	2" Diameter PVC pre-packed .001 slot screen 4' to 14'			0		Color changes to gray at 7'		
		CC-3		0		Wet, dark gray SAND (SP); medium sand		10
10				0				
5				0				
	Threaded cap			0				
	Slough			0				
15				0				15
0							Bottom of boring at 15' BGS	

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MAR**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 219**



# Boring Log

Project Number  
110207

Boring Number  
REC7-MW-03

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 15.48

Location: Everett, WA

Driller/Method: Cascade Drilling / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core

Start/Finish Date 6/4/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
15	8" Flush-mount monument and thermos cap Concrete surface seal 0' to 2'			0			Post-holed to 3' for utilities	
				0				
	3/8" Hydrated bentonite chips 2' to 4'	CC-1		0		Concrete rubble		
	10/20 pre-pack Silica sand filter pack 4' to 15'			0		Moist, brown, SILT (ML) Numerous wood organics at 4.5'		5
5				0		Concrete rubble		
10		CC-2		0				
				0		Wet, brown, silty SAND (SM); fine sand		
	▼ 2" Diameter PVC pre-packed .001 slot screen 5' to 15'			0		Wet, brown SAND (SP); fine sand 9 to 9.5', grades to medium sand from 10' to 15'		10
10		CC-3		0				
5				0				
				0				
				0				
				0				
				0				
				0				
				0				
				0				
				0				
15	Threaded cap			0			Gravelly at 14.5'	15
							Bottom of boring at 15' BGS	

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MAR**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 220**



# Boring Log

Project Number  
110207

Boring Number  
REC7-MW-04

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 12.92

Location: Everett, WA

Driller/Method: Cascade Drilling / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core

Start/Finish Date 5/24/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
10	8" Flush-mount monument and thermos cap					Asphalt		
0' to 3'	Concrete surface seal			0.1		Moist, brown SAND (SP); trace gravel, fine sand; brick, concrete rubble debris		
10		CC-1		0.2				
3' to 4'	3/8" Hydrated bentonite chips			0.3				
4' to 15'	10/20 pre-pack Silica sand filter pack			0.4		Moist, brown SILT (ML)		
5		CC-2		0.4		Very moist, brown to gray sandy GRAVEL (GP); trace silt and concrete rubble, coarse, subrounded to subangular gravel		5
5	2" Diameter PVC pre-packed .001 slot screen					Wet, brown to gray, slightly gravelly SAND (SP); medium to coarse sand		
10		CC-3				No recovery 10' to 15'		10
15	Threaded cap					Bottom of boring at 15' BGS		15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MAR**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 221**



# Boring Log

Project Number  
110207

Boring Number  
SHB-B01

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/19/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
						Recycled demo debris		
						No recovery		
5	Hydrated bentonite chip backfill	CC-01						5
				0		Medium dense, slightly moist, light brown, silty SAND (SM); fine sand		
			SHB-B1-6.5	0				
				0		Becomes wet, gray		
			SHB-B1-7.5	0				
		CC-02		0		Medium dense, wet, gray SAND (SW); fine to very coarse sand		
10				0		No recovery		10
			SHB-B1-10.5	0		Medium dense, wet, gray SAND (SW); fine to coarse sand		
				0				
				0				
				0				
				0				
		CC-03		0				
15				0		No recovery		15
						Bottom of boring 15 feet Note: Density and consistency was estimated based on sample observations.		

Sampler Type:  No Recovery       Continuous Core  
 PID - Photoionization Detector (Headspace Measurement)      Logged by: **AHP**  
 Static Water Level      Approved by: **SJG**  
 Water Level (ATD)      Figure No. **A- 222**

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014



# Boring Log

Project Number  
110207

Boring Number  
SHB-B02

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/19/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
						Recycled demo debris		
		CC-01			0	Medium dense, slightly moist, light brown, silty SAND (SM); fine sand		
					0			
					0			
					0			
5	Hydrated bentonite chip backfill					No recovery		5
					0	Medium dense, slightly moist, light brown, silty SAND (SM); fine sand		
			SHB-B2-6		0			
					0			
		CC-02			0	Wet		
	▽ 11/19/2013		SHB-B2-8		0	Becomes gray		
					0			
			SHB-B2-9		0			
10						Medium dense, wet, gray SAND (SW); fine to coarse sand		
						No recovery		10
						Medium dense, wet, light brown, silty SAND (SM); fine sand		
						Medium dense, wet, gray SAND (SW); fine to coarse sand		
		CC-03				Medium dense, wet, gray silty SAND (SM); very fine sand		
						No recovery		
15						Bottom of boring 15 feet Note: Density and consistency was estimated based on sample observations.		15

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: AHP

Approved by: SJG

Figure No. A- 223



### Boring Log

Project Number  
110207

Boring Number  
SHB-B03

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/19/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
						Recycled demo debris		
		CC-01		0		Stiff, slightly moist, gray, silty SAND (SM); fine sand		
			SHB-B3-3	0		No recovery		
5	Hydrated bentonite chip backfill			0		Stiff, slightly moist, gray, silty SAND (SM); fine sand		5
			SHB-B3-6	0		Medium dense, slightly moist, brown, gravelly, silty SAND (SM); fine to medium sand, medium subrounded gravel		
		CC-02		0		Medium stiff, wet, gray SILT (ML)		
	▽ 11/19/2013			0		Medium dense, wet, light brown SAND (SP); medium sand, trace fine gravel		
				0		Woody debris		
10				0		No recovery		10
			SHB-B3-11	0		Medium dense, wet, brown, gravelly, silty SAND (SM); medium sand, fine gravel		
		CC-03		0		Medium dense, wet, gray, SAND (SW); fine to coarse sand		
				0		Medium stiff, wet, gray, silty SAND (SM); fine sand		
				0		No recovery		
15						Bottom of boring 15 feet Note: Density and consistency was estimated based on sample observations.		15

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- ▼ Static Water Level
- ▽ Water Level (ATD)

Logged by: **AHP**

Approved by: **SJG**

Figure No. **A- 224**



### Boring Log

Project Number  
110207

Boring Number  
SHB-B04

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/19/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
						Recycled demo debris		
		CC-01		0		Stiff, slightly moist, gray, slightly gravelly, sandy SILT (SM); fine sand		
						No recovery		
5	Hydrated bentonite chip backfill							5
		SHB-B4-5.5		0		Stiff, moist, gray, slightly gravelly, silty SAND (SM); fine to medium sand		
				0		Becomes medium dense, wet, red brown		
		CC-02		0				
	▽ 11/19/2013	SHB-B4-7.5		0		No recovery		
				0				
10				0		Medium dense, wet, red brown, slightly gravelly, silty SAND (SM); medium sand		10
		SHB-B4-11		0		Medium dense, wet, gray SAND (SW); fine to coarse, subangular sand		
		CC-03		0				
				0		No recovery		
15						Bottom of boring 15 feet Note: Density and consistency was estimated based on sample observations.		15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AHP

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 225





# Boring Log

Project Number  
110207

Boring Number  
SHB-MW-01

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 15.99

Location: Everett, WA

Driller/Method: Holt / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core 3"

Start/Finish Date 10/24/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
15	8" Flush-mount monument and thermos cap Concrete surface seal 0' to 1' 3/8" Hydrated bentonite chips 1' to 2'	CC-1	SHB-MW-1-3	0		Recycled demo debris		
				0		Moist, gray, silty, sandy, GRAVEL (GM)		
				233		Moist, black, ORGANIC SILT (OL); numerous wood chips		
				0		Moist, red brown, gravelly, SAND (SP); fine to medium sand		
5						No recovery		5
10	20/40 pre-pack Silica sand filter pack 2' to 13.25'	CC-2	SHB-MW-1-7.5	0		Moist, red brown, gravelly, SAND (SP); fine to medium sand with white and yellow slag-like material		
	▽ 10/24/2013			0		Wet, gray, SAND (SP); fine sand, trace gravel		
	2" Diameter PVC pre-packed 10-slot screen 3' to 13'					No recovery		
10						Wet, gray, SAND (SP); fine sand, trace gravel		10
5				0		Wet, gray, slightly gravelly, SAND (SP); medium to coarse sand		
		CC-3	SHB-MW-1-13	0		No recovery		
15	Threaded cap			0		Wet, gray, slightly gravelly, SAND (SP); medium to coarse sand		15
	Slough			0		Wet, gray, silty, SAND (SM); fine sand, organics (wood chips)		
0				0		Wet, gray, slightly gravelly, SAND (SP); medium to coarse sand		
		CC-4		0		Wet, gray, SAND (SP); fine sand		
				0		lense of silty SAND (SM)		
20						No recovery		20
						Bottom of boring at 20 feet		

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 226



# Boring Log

Project Number  
110207

Boring Number  
SHB-MW-02

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 14.90

Location: Everett, WA

Driller/Method: Holt / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core 3"

Start/Finish Date 10/24/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	8" Flush-mount monument and thermos cap			0			Moist, gray, gravelly, SAND (SP); fine to medium sand	
0	Concrete surface seal 0' to 1'			0			Moist, dark brown, sandy, SILT (ML); angular contact with below	
0	3/8" Hydrated bentonite chips 1' to 4'	CC-1		0			Moist, brown, SAND (SP); fine to medium sand	
							No recovery	
5	20/40 pre-pack Silica sand filter pack 4' to 15'		SHB-MW-2-5	0			Moist, brown, SAND (SP); fine to medium sand	5
				0			Moist, dark brown, ORGANIC SILT (OL); wood chips	
				0			Very moist to wet, gray, SAND (SP); fine sand	
	10/24/2013	CC-2	SHB-MW-2-7	0			Wet, brown and gray, SAND (SP); medium sand, trace gravel	
				0			Grades to gray	
				0			No recovery	
10	2" Diameter PVC pre-packed 10-slot screen 5' to 15'			0			Wet, brown and gray, SAND (SP); medium sand, trace gravel	10
				0			Very moist to wet, brown, silty, sandy, GRAVEL (GM); fine sand	
		CC-3	SHB-MW-2-13	0			Wet, gray, SAND (SP); medium sand, slightly gravelly	
				0				
				0				
15	Threaded cap			0			Becomes medium to coarse sand	15
	Slough			0				
		CC-4		0				
				0				
				0				
20				0			Bottom of well at 20 feet	20

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 227



# Boring Log

Project Number  
110207

Boring Number  
TM-B01

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/22/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
							No recovery	
		CC-01					Recycled demo debris	
5	Hydrated bentonite chip backfill		TM-B1-4.5	0	0		Moist, brown, slightly silty, gravelly SAND (SP-SM); fine sand, scattered burnt wood	5
			TM-B1-6	0	0		Moist to wet, dark gray, silty SAND (SM); trace gravel, fine to medium sand	
	▽ 11/22/2013	CC-02	TM-B1-7.5	0	0			
				0	0		No recovery	
10			TM-B1-11	0	0		Wet, gray, slightly silty SAND (SP-SM); fine to medium sand, trace gravel	10
		CC-03		0	0		No recovery	
15							Bottom of boring 15 feet Note: Density and consistency was estimated based on sample observations.	15

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- ▼ Static Water Level
- ▽ Water Level (ATD)

Logged by: AET

Approved by: SJG

Figure No. A- 228



# Boring Log

Project Number  
110207

Boring Number  
TM-B02

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/22/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
							No recovery	
		CC-01						
				0		Recycled demo debris		
5	Hydrated bentonite chip backfill		TM-B2-4.5				Moist, brown, gravelly, silty SAND (SM); fine sand	5
	▽ 11/22/2013			0			Wet, dark gray, sandy GRAVEL (GP)	
		CC-02	TM-B2-6.5				No recovery	
10				0			Wet, dark gray/black, slightly sandy GRAVEL (GP); crushed rock, crushed brick, wood debris	10
		CC-03	TM-B2-10				No recovery	
15							Bottom of boring 15 feet Note: Density and consistency was estimated based on sample observations.	15

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 229



# Boring Log

Project Number  
110207

Boring Number  
TM-B03

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/21/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
							No recovery	
		CC-01						
5	Hydrated bentonite chip backfill		TM-B3-5.5	0			Recycled demo debris	5
				0			Moist, brown SAND (SP)	
				0			Moist, brown, silty SAND (SM); fine sand	
	▽ 11/21/2013	CC-02	TM-B3-7	0			Very moist to wet, brown SAND (SP)	
				0			Becomes gray	
10				0			No recovery	10
				0			Wet, gray SAND (SP); medium sand, shells	
		CC-03	TM-B3-10	0				
				0			No recovery	
15							Bottom of boring 15 feet Note: Density and consistency was estimated based on sample observations.	15

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 230



# Boring Log

Project Number  
110207

Boring Number  
TM-B04

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 12/5/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
							Recycled demo debris	
5	Hydrated bentonite chip backfill	CC-01					No recovery	5
			TM-B4-6.5				Stiff, moist, gray SILT (ML)	
		CC-02					No recovery	
10			TM-B4-10				Stiff, moist, gray SILT (ML)	10
							Woody debris	
		CC-03					No recovery	
15			TM-B4-15.5				Woody debris	15
			TM-B4-17				Medium dense, wet, gray, silty, gravelly SAND (SM); fine to medium gravel, fine to coarse sand	
		CC-04					No recovery	
20							Bottom of boring 20 feet Note: Density and consistency was estimated based on sample observations.	20

Sampler Type:  No Recovery      PID - Photoionization Detector (Headspace Measurement)      Logged by: **AHP**  
 Continuous Core      Static Water Level      Approved by: **SJG**  
 Water Level (ATD)      Figure No. **A- 231**

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014



# Boring Log

Project Number  
110207

Boring Number  
TM-B05

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/21/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
							No recovery	
		CC-01						
5	Hydrated bentonite chip backfill							5
	▽ 11/21/2013		TM-B5-5.5	0			Moist, gray, sandy GRAVEL (GP); fine to medium sand, coarse gravel and cobbles	
		CC-02	TM-B5-6.5	0			Wet, gray SAND (SP); fine sand, trace gravel	
				0			No recovery	
10			TM-B5-10.5	0			Wet, gray SAND (SP); fine sand, trace gravel	10
		CC-03		0			Wood	
15							Bottom of boring 15 feet Note: Density and consistency was estimated based on sample observations.	15

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 232



# Boring Log

Project Number  
110207

Boring Number  
TM-B06

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/21/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)	
1		CC-01				No recovery		1	
2						Recycled demo debris		2	
3								3	
4			TM-B6-4 TM-B6-4.5				Moist, brown, slightly gravelly SAND (SP); fine to medium sand		4
5		Hydrated bentonite chip backfill ▽ 11/21/2013	TM-B6-5.5 TM-B505-5.5						5
6									6
7			TM-B6-7.5						7
8							Wet, gray, very sandy SILT (ML); fine sand		8
9							Wet, gray, clayey SILT (ML)		9
10							Wet, gray, SAND (SP); medium sand, trace gravel		9
						No recovery		10	
						Bottom of boring 10 feet Note: Density and consistency was estimated based on sample observations.		10	

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: AET

Approved by: SJG

Figure No. A- 233





# Boring Log

Project Number  
110207

Boring Number  
TM-B07

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/21/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)		
1	Hydrated bentonite chip backfill	CC-01	TM-B7-4.5	0	0	No recovery	No recovery	1		
2										
3		CC-02				TM-B7-6.5	0	0	Recycled demo debris	2
4										
5		CC-02				TM-B7-6.5	0	0	Moist, brown, slightly silty, gravelly SAND (SP-SM); fine to medium sand	4
6										
7		CC-02				TM-B7-6.5	0	0	Wood at 4.8'	5
8										
9		CC-02				TM-B7-6.5	0	0	Grades to gray with shell fragments	6
10										
9	CC-02	TM-B7-6.5	0	0	Grades to moist, brown, silty, gravelly SAND (SM); fine to medium sand	7				
10										
10	CC-02	TM-B7-6.5	0	0	No recovery	8				
10										
10	CC-02	TM-B7-6.5	0	0	Bottom of boring 10 feet Note: Density and consistency was estimated based on sample observations.	9				
10										

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: AET

Approved by: SJG

Figure No. A- 234



# Boring Log

Project Number  
110207

Boring Number  
TM-B08

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/22/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
1	[Solid black bar]	[Thin vertical line]	TM-B8-1	0	0	[Cross-hatched pattern]	Recycled demo debris	1
2						[Dotted pattern]	Moist, brown, SAND (SP); fine to medium sand, trace gravel	2
3						[Dotted pattern]	Moist, brown, SAND (SP); fine to medium sand, trace gravel	3
4	[Solid black bar]	[Thin vertical line]	TM-B8-3	0	0	[X pattern]	No recovery	4
5						[X pattern]	No recovery	5
6	[Solid black bar]	[Thin vertical line]	TM-B8-3	0	0	[Dotted pattern]	Wet, brown SAND (SP); fine to medium sand, trace gravel	6
7						[Dotted pattern]	Becomes gray, medium sand	7
8						[Dotted pattern]	Grades to medium to coarse sand	8
9	[Solid black bar]	[Thin vertical line]	TM-B8-3	0	0	[X pattern]	No recovery	9
10						[X pattern]	No recovery	10
10	Bottom of boring 10 feet Note: Density and consistency was estimated based on sample observations.							10

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

∇ Water Level (ATD)

Figure No. A- 235

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014



# Boring Log

Project Number  
110207

Boring Number  
TM-B09

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/22/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
1						Recycled demo debris		1
1						No recovery		1
2				0		Moist, brown SAND (SP); medium sand, trace gravel		2
3		CC-01	TM-B9-2.5	0				3
4				0				4
5				0				5
5	Hydrated bentonite chip backfill							
6				0		Wet		6
6	▽ 11/22/2013							
7				0		Wet, gray, gravelly SAND (SP); medium sand		7
8		CC-02		0		Trace gravel at 8'		8
9				0		Wet, gray, silty SAND (SM); fine sand, wood debris		9
10						No recovery		10
10						Bottom of boring 10 feet Note: Density and consistency was estimated based on sample observations.		10

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- ▼ Static Water Level
- ▽ Water Level (ATD)

Logged by: AET

Approved by: SJG

Figure No. A- 236



# Boring Log

Project Number  
110207

Boring Number  
TM-B10

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/21/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
1	Hydrated bentonite chip backfill	CC-01				Recycled demo debris		1
2								
3								
4								
5		TM-B10-5.5				Moist to wet, brown, slightly gravelly SAND (SP); fine to medium sand	5	
6							Wet, gray SAND (SP); fine sand, numerous shell fragments	6
7								
8		TM-B10-7.5				Grades to fine to medium sand at 7.5'	8	
9							No recovery	9
10		Bottom of boring 10 feet Note: Density and consistency was estimated based on sample observations.				10		

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: AET

Approved by: SJG

Figure No. A- 237



# Boring Log

Project Number  
110207

Boring Number  
TM-B11

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/21/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)		
1							No recovery	1		
2							Recycled demo debris	2		
3								3		
4								4		
5							TM-B11-4.5	0	Moist, brown, gravelly, slightly SILTY SAND (SP-SM); fine to medium sand	5
6								0		6
7							TM-B11-6.5	0		7
8								0		8
9								0		9
10								0	No recovery	10
							Bottom of boring 10 feet Note: Density and consistency was estimated based on sample observations.			

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET

No Recovery

Static Water Level

Approved by: SJG

Continuous Core

Water Level (ATD)

Figure No. A- 238



# Boring Log

Project Number  
110207

Boring Number  
TM-B12

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Holt / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core 2" Start/Finish Date 11/21/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)		
1							No recovery	1		
2							Recycled demo debris	2		
3								3		
4								0	Moist, brown, slightly silty, gravelly SAND (SP-SM); fine to medium sand	4
5									TM-B12-4.5	5
6								0	TM-B12-6.5	6
7								0		7
8								0	No recovery	8
9										9
10									Bottom of boring 10 feet Note: Density and consistency was estimated based on sample observations.	10

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: AET

Approved by: SJG

Figure No. A- 239



# Boring Log

Project Number  
110207

Boring Number  
TM-MW-01

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 15.48

Location: Everett, WA

Driller/Method: Holt / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core 3"

Start/Finish Date 10/22/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
15	8" Flush-mount monument and thermos cap Concrete surface seal 0' to 1' 3/8" Hydrated bentonite chips 1' to 2'						Recycled demo debris	
		CC-1					Dry, gray and light brown, slightly silty, SAND (SP-SM) and GRAVEL (GP-GM); medium to coarse sand, fine to medium gravel No recovery	
5	▽ 10/22/2013							5
10	20/40 pre-pack Silica sand filter pack 2' to 13.25'	CC-2					Wet, gray, SILT (ML)	
							Wet, dark gray SAND (SP); medium sand No recovery	
10	2" Diameter PVC pre-packed 10-slot screen 3' to 13'	TM-MW-1-9.5						
5							Wet, dark gray, very silty, SAND (SM)	10
		CC-3					Wood chips	
	Threaded cap							
	Slough						No recovery	
15							Wood chips	15
0		CC-4					No recovery	
							Bottom of boring at 18 feet	

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **AHP**

○ No Recovery

▽ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 240**



# Boring Log

Project Number  
110207

Boring Number  
TM-MW-02

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 18.28

Location: Everett, WA

Driller/Method: Holt / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core 3"

Start/Finish Date 10/23/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	8" Flush-mount monument and thermos cap Concrete surface seal 0' to 1' 3/8" Hydrated bentonite chips 1' to 2'						Recycled demo debris	
15		CC-1					Dry, light brown to light gray, silty, gravelly, SAND (SM); fine to coarse sand, fine to coarse gravel	
5							Slightly moist, dark gray, SILT (ML); trace gravel, trace woody debris	
							Dry, white, GRAVEL (GP); pulverized rock	
							No recovery	5
							Dry, white and green gray, silty, sandy, GRAVEL (GM); fine to coarse sand, fine to coarse gravel, pulverized rock	
							Slightly moist, dark gray, SAND (SP); fine sand	
	20/40 pre-pack Silica sand filter pack 2' to 13.25'	CC-2					Slightly moist, dark gray, slightly sandy, SILT (ML); fine sand	
10							Dry, red, crushed BRICK	
							Slightly moist, black, gravelly, SILT (ML); woody debris	
							No recovery	
10	2" Diameter PVC pre-packed 10-slot screen 3' to 13' ▽ 10/23/2013						Wet, gray, slightly sandy, gravelly, SILT (ML)	10
							Moist, slightly silty, SAND (SP-SM) and GRAVEL (GP-GM); medium to coarse sand, fine gravel	
							Wood chips	
5		CC-3					No recovery	
	Threaded cap							
	Slough							
15							Wood chips	15
		CC-4					No recovery	
0							Bottom of boring at 18 feet	

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **AHP**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

■ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 241**





# Boring Log

Project Number  
110207

Boring Number  
TM-MW-03

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 18.67

Location: Everett, WA

Driller/Method: Holt / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core 3"

Start/Finish Date 10/22/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	8" Flush-mount monument and thermos cap Concrete surface seal 0' to 1' 3/8" Hydrated bentonite chips 1' to 2'						Recycled demo debris, hand cleared	
5		CC-1					Dry, gray, sandy, silty, GRAVEL (GM); gravel up to 2"	
10							No recovery	
15							Slightly moist, brown to tan, slightly silty, gravelly, SAND (SP-SM)	5
20	20/40 pre-pack Silica sand filter pack 2' to 13.25'						Wet, black and tan and gray, silty, SAND (SM); fine to coarse subangular sand	
25	2" Diameter PVC pre-packed 10-slot screen 3' to 13'						No recovery	
30							Wood chips	10
35							No recovery	
40							Wood chips	15
45							Wet, black, SAND (SP); medium to coarse, subangular sand	
50							No recovery	
55							Bottom of boring at 18 feet	

Sampler Type:  No Recovery       Continuous Core  
 PID - Photoionization Detector (Headspace Measurement)      Logged by: **AHP**  
 Static Water Level      Approved by: **SJG**  
 Water Level (ATD)      Figure No. **A- 242**

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014



# Boring Log

Project Number  
110207

Boring Number  
TM-MW-04

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 18.87

Location: Everett, WA

Driller/Method: Holt / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core 3"

Start/Finish Date 10/23/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
15	8" Flush-mount monument and thermos cap Concrete surface seal 0' to 1' 3/8" Hydrated bentonite chips 1' to 4'	CC-1				Recycled demo debris		
5	20/40 pre-pack Silica sand filter pack 4' to 15'	CC-2	TM-MW-4-7 TM-MW-4-7.75 TM-MW-4-8			No recovery		5
10	2" Diameter PVC pre-packed 10-slot screen 5' to 15'	CC-3	TM-MW-4-10			Dry, red brown, SAND and GRAVEL (SP-GW): medium to coarse, subrounded sand, fine to coarse, gravel Slightly moist, gravelly, silty, SAND (SM); fine to coarse sand Wet, light to dark gray, SAND (SP); fine sand		
10						No recovery		10
						Wet, gray, SAND (SP), fine sand Wood chips		
5						No recovery		
15	Threaded cap	CC-4				Wood chips		15
	Slough					Moist, dark gray, silty SAND and GRAVEL (SM-GM); medium to coarse, subangular sand, fine gravel		
0						No recovery		
20						Bottom of boring at 20 feet		20

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **AHP**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 243**



# Boring Log

Project Number  
110207

Boring Number  
TM-MW-05

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 15.26

Location: Everett, WA

Driller/Method: Holt / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core 3"

Start/Finish Date 10/23/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
15	8" Flush-mount monument and thermos cap Concrete surface seal 0' to 1' 3/8" Hydrated bentonite chips 1' to 4'	CC-1	TM-MW-5-2	0		FILL: Recycled demo debris		
				0		Moist, mottled gray and white and dark gray, gravelly, SAND (SP); fine to medium sand		
				0		Moist, gray, interbedded SAND (SP) and silty, SAND (SM); fine sand		
				0		No recovery		
5	10' $\nabla$ 10/23/2013 20/40 pre-pack Silica sand filter pack 4' to 19'	CC-2	TM-MW-5-5	0		Wet, dark gray, SAND (SP); fine to medium sand, numerous shell fragments, trace fibrous organics		5
				0		No recovery		
10	5' 2" Diameter PVC pre-packed 10-slot screen 5' to 19'	CC-3		0		Wet, dark gray, SAND (SP); fine to medium sand, numerous shell fragments, trace fibrous organics		10
				0		2" layer of unidentified yellow slag-like material		
				0		Wet, black, unknown material with white crushed concrete and brick		
						No recovery		
15	0' Threaded cap Slough	CC-4	TM-MW-5-15	0		Wet, black, GRAVEL (GP); organics (wood chips), sheen, oil odor		15
						Wood chips, no odor or sheen		
				0		Wet, gray, SAND (SP); fine to medium sand, no odor or sheen		
				0		No recovery		
20	-5'		TM-MW-5-18			Bottom of boring at 20 feet		20

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AHP, AET

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 244



# Boring Log

Project Number  
110207

Boring Number  
TM-MW-06

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 16.47

Location: Everett, WA

Driller/Method: Holt / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core 3"

Start/Finish Date 10/23/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
15	8" Flush-mount monument and thermos cap Concrete surface seal 0' to 1' 3/8" Hydrated bentonite chips 1' to 4'	CC-1	TM-MW-6-1	0		Asphalt debris		
				0		Moist, gray brown, slightly silty, sandy, GRAVEL (GP); fine sand		
				0		Moist, brown, gravelly, silty, SAND (SM) with brick debris; fine sand, fine gravel		
5	20/40 pre-pack Silica sand filter pack 4' to 15'					No recovery		5
10		CC-2	TM-MW-6-6.5	0		Moist, brown, gravelly, silty, SAND (SM) with brick debris; fine sand, fine gravel		
				0		No recovery		
10	2" Diameter PVC pre-packed 10-slot screen 5' to 15'							10
5		CC-3		0				
15	Threaded cap							15
0	Slough			0		Wet, dark gray, SAND (SP); fine to medium sand		
		CC-4	TM-MW-6-15	0		Wood chips at 17 feet		
				0		Wood chips and abundant seashells at 18 feet		
20				0		No recovery		20
						Bottom of boring at 20 feet		

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AHP, AET

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 245



# Boring Log

Project Number  
110207

Boring Number  
UG-MW-01

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. 17.23  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 6/27/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
17	8" Flush-mount monument and thermos cap			0.4			Asphalt debris, crushed rock, and gravel fill	1
16	Concrete surface seal 0' to 2'			0				2
15	3/8" Hydrated bentonite chips 2' to 3'	CC-1		0			Slightly moist, dark gray SAND (SP); fine sand	3
14	2/12 pre-pack Silica sand filter pack 3' to 14'			0			Wood debris at 4'	4
13				0				5
12				0			Wet, dark gray, slightly clayey, slightly sandy SILT (ML); numerous wood organic debris from 8' to 12.5'	6
11		CC-2		0				7
10	2" Diameter PVC pre-packed .001 slot screen 4' to 14'			0			Difficult to drill through wood, hole moved over 2' east to re-drill	8
9				0				9
8				0				10
7				0				11
6				0				12
5		CC-3		0				13
4				0			Wet, gray with iron-oxide staining, SAND (SW); trace fine gravel, fine to coarse sand	13
3	Threaded cap			0				14
2	Slough			0				15
1							Bottom of boring at 15' BGS	16
0								17
-1								18
-2								19
-3								20
-4								21
-5								22
-6								23
-7								24
-8								25
-9								26
-10								27
-11								28
-12								29

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET

No Recovery

Static Water Level

Approved by: SJG

Continuous Core

Water Level (ATD)

Figure No. A- 246



# Boring Log

Project Number  
110207

Boring Number  
UG-MW-02

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. 18.3  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 6/27/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
18	8" Flush-mount monument and thermos cap						Concrete	
17	Concrete surface seal 0' to 1'			0.4			Moist, dark gray SAND (SP); brick debris	1
16	3/8" Hydrated bentonite chips 1' to 2'	CC-1		0				2
15	2/12 pre-pack Silica sand filter pack 2' to 13'			0			Moist to wet, dark gray SILT (ML); trace gravel	3
14				0				4
13				0				5
12				0				6
11		CC-2		0				7
10	2" Diameter PVC pre-packed .001 slot screen 3' to 13'			0			Wet, dark, gray, slightly gravelly SAND (SW); poorly graded fine-to-coarse sand	8
9				0			Orange-gray color 9' to 12.5'	9
8								10
7								11
6								12
5	Threaded cap	CC-3						13
4	Slough						Wet, dark gray, sandy SILT (ML); fine sand	14
3							Bottom of boring at 15' BGS	15
2								16
1								17
0								18
-1								19
-2								20
-3								21
-4								22
-5								23
-6								24
-7								25
-8								26
-9								27
-10								28
-11								29

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: AET

Approved by: SJG

Figure No. A- 247



# Boring Log

Project Number  
110207

Boring Number  
UG-MW-02R

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 19.18

Location: Everett, WA

Driller/Method: Holt Drilling / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core

Start/Finish Date 10/31/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
15	8" Flush-mount monument and thermos cap Concrete surface seal 0' to 1' 3/8" Hydrated bentonite chips 1' to 4'	CC-1					Recycled demo debris	
15				0			Slightly moist, brown, slightly sandy, gravelly, SILT (ML); fine, rounded gravel	
15				0			No recovery	
5	20/40 pre-pack Silica sand filter pack 4' to 15'			0			Slightly moist, brown with red staining, gravelly, sandy, SILT (ML)	5
5		UG-MW-2R-6		0			Slightly moist, gray, gravelly, sandy, SILT (ML)	
5		UG-MW-2R-7		0			Moist, light brown, silty SAND (SM) and GRAVEL (GM); fine to medium, subangular sand, fine, subrounded, gravel	
5	▽ 10/31/2013	CC-2		0			Wet, gray, GRAVEL (GP); fine, subrounded gravel	
10	2" Diameter PVC pre-packed 10-slot screen 5' to 15'			0			No recovery	
10		UG-MW-2R-12		0			Wet, brown to gray, silty, SAND (SM) and GRAVEL (GM); fine to medium sand, fine gravel	10
10				0			Wet, gray, SAND (SW) and GRAVEL (GP); fine to coarse sand, fine gravel	
10				0			Wet, gray, sandy, SILT (ML); fine to medium sand	
10				0			Wet, light brown to gray, SAND (SW); trace fine gravel, fine to coarse, subrounded sand	
10		CC-3		0			No recovery	
15	Threaded cap						Bottom of boring at 15 feet	15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **AHP**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 248**



### Boring Log

Project Number  
110207

Boring Number  
UST29-MW-01

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 15.49

Location: Everett, WA

Driller/Method: Cascade Drilling / Direct Push Probe

Depth to Water (ft BGS) \_\_\_\_\_

Sampling Method: Continuous Core

Start/Finish Date 6/27/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
15	8" Flush-mount monument set in concrete and thermos cap					Asphalt		
	3/8" Hydrated bentonite chips 1' to 1.5'					Moist, brown, slightly silty, gravelly SAND (SP-SM); poorly graded fine-to-medium sand		
	#2/12 pre-pack Silica sand filter pack 1.5' to 12.5'	CC-1		0.7		Pea gravel with white liquid at bottom of pea gravel		
	▼			0.8		Wet, brown to orange, SAND (SP); poorly graded fine-to-medium sand with a layer comprised of a plastic sheet at 3.5'		
5						Pea gravel with white liquid 6.9' to 7'		5
10	2" Diameter PVC pre-packed .001 slot screen 2.5' to 12.5'	CC-2	UST29-MW-1-7-8	0.8				
			UST29-MW-1-8-9	2700		Wet, dark gray, sandy silt (ML); trace gravel, very strong sweet odor		
10				629				10
5		CC-3		84				
	Threaded cap			105				
15						Refusal at 12.5'; bottom of boring at 12.5' BGS		15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 249





# Boring Log

Project Number  
110207

Boring Number  
UST68-MW-01

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 15.4

Location: Everett, WA

Driller/Method: Cascade Drilling / Direct Push Probe

Depth to Water (ft BGS) \_\_\_\_\_

Sampling Method: Continuous Core

Start/Finish Date 5/25/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
15	8" Flush-mount monument and thermos cap					Asphalt		
	Concrete surface seal 0' to 2'			0		Moist, brown SAND (SP); trace gravel, fine sand		
	3/8" Hydrated bentonite chips 2' to 4'	CC-1		0				
	10/20 pre-pack Silica sand filter pack 4' to 15'			0				5
5				0		Very moist, gray SILT (ML)		
10			UST68-MW-1-7-8	0		Wet, brown SAND (SP); fine sand		
	2" Diameter PVC pre-packed .001 slot screen 5' to 15'	CC-2		0		Color changes to gray		
				0		2" layer of silt at 9'		10
10				0				
5		CC-3		0				
				0		Wet, gray silty SAND (SM); fine sand		
15	Threaded cap			0		Bottom of boring at 15' BGS		15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MAR**

No Recovery

Static Water Level

Approved by: **SJG**

Continuous Core

Water Level (ATD)

Figure No. **A- 250**



# Boring Log

Project Number  
110207

Boring Number  
UST68-MW-02

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 15.77

Location: Everett, WA

Driller/Method: Cascade Drilling / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core

Start/Finish Date 5/30/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
15	8" Flush-mount monument and thermos cap					Asphalt		
	Concrete surface seal 0' to 2'					Pea gravel		
	3/8" Hydrated bentonite chips 2' to 4'	CC-1		0		Moist, brown, slightly silty SAND (SP-SM); fine sand. iron staining		
5	10/20 pre-pack Silica sand filter pack 4' to 15'			0		1" lens of silt at 4'		5
10		CC-2		0		Trace to numerous organics (shell fragments and wood) 5' to 8.5'		
				0		Wet, gray, silty SAND (SM); fine sand		
				0		1" lens of silt at 8.5'		
	2" Diameter PVC pre-packed .001 slot screen 5' to 15'			0		Wet, brown SAND (SP); poorly graded fine-to-medium sand		
10		UST68-MW-2-10-11		0		Wet, brown SAND (SW); poorly graded fine-to-coarse sand		10
5				51.5		Wet, gray SAND (SP); poorly graded fine-to-medium sand, slight petroleum-like odor and sheen from 10' to 11'		
				46.8				
				3.7				
				1.8				
		CC-3		0.8		Trace organics (shell fragments) 13' to 14'		
				2.0		Fine sand at 14'		
15	Threaded cap			2.0		Bottom of boring at 15' BGS		15
0								

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MAR**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 251**



# Boring Log

Project Number  
110207

Boring Number  
UST68-MW-04

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 14.67

Location: Everett, WA

Driller/Method: Cascade Drilling / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core

Start/Finish Date 5/24/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	8" Flush-mount monument and thermos cap					Asphalt		
0 to 2'	Concrete surface seal			0.2		Moist, brown, slightly silty SAND (SP-SM); trace gravel, fine sand		
2' to 4'	3/8" Hydrated bentonite chips	CC-1		0.2				
4' to 15'	10/20 pre-pack Silica sand filter pack			0.2				
5'				0.2				
6.5'			UST68-MW-4-6-6.5	0.1		Wet		
6.5' to 11'		CC-2		0.1		Wet, brown, very silty SAND (SM); fine sand		
11' to 12'				0.1		Wet, gray, slightly silty SAND (SP); fine sand		
12' to 15'	2" Diameter PVC pre-packed .001 slot screen			0.1		Wet, dark gray SAND (SP); medium to coarse sand, faint odor		
11-12'		UST68-MW-4-11-12		7.0				
15'	Threaded cap	CC-3		1.4				
15'				2.0		Bottom of boring at 15' BGS		

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MAR**

No Recovery

Static Water Level

Approved by: **SJG**

Continuous Core

Water Level (ATD)

Figure No. **A- 252**



# Boring Log

Project Number  
110207

Boring Number  
UST68-MW-05

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 14.57

Location: Everett, WA

Driller/Method: Cascade Drilling / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core

Start/Finish Date 5/24/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	8" Flush-mount monument and thermos cap					Asphalt		
0 to 2'	Concrete surface seal			0.2		Moist, gray to brown, gravelly SAND (SP); trace fine sand, mostly medium sand		
2' to 4'	3/8" Hydrated bentonite chips	CC-1		0.2				
4' to 15'	10/20 pre-pack Silica sand filter pack			0.2				5
5' to 15'	2" Diameter PVC pre-packed .001 slot screen		UST68-MW-5-7-8	0.2				
5' to 15'		CC-2		0.3		Wet, brown to gray SAND (SP); trace fine sand, mostly medium sand		
5' to 15'				0.8				
5' to 15'				0.7				
5' to 15'				0.7		Dark brown 9' to 12'		
5' to 15'			UST68-MW-5-12-13	0.4				10
5' to 15'		CC-3		0.4				
5' to 15'				3.2				
5' to 15'				7.2		Dark gray to black in color 12' to 15', slight H2S odor		
5' to 15'				6.1				
15'	Threaded cap			0.3		Bottom of boring at 15' BGS		15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MAR**

No Recovery

Static Water Level

Approved by: **SJG**

Continuous Core

Water Level (ATD)

Figure No. **A- 253**



# Boring Log

Project Number  
110207

Boring Number  
UST68-MW-06

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 14.57

Location: Everett, WA

Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access

Depth to Water (ft BGS)

Sampling Method: Continuous Core

Start/Finish Date 9/10/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	8" flush-mount monument and thermos cap					Asphalt		
0	Concrete surface seal					(Post-holed to 5' to clear for utilities) Moist, brown to gray SAND (SP); poorly graded fine to medium sand		
0	3/8" hydrated bentonite chips							
0	10/20 silica sand filter pack							
5	2" diameter PVC pre-packed .001 slot screen	CC-1		0	0	Wet, dark gray SAND (SP); fine sand		5
5				0	0	Wet, dark gray, slightly sandy SILT (ML)		
5				0	0	Wet, dark gray SAND (SP); fine sand, trace silt		
5				0	0	Medium sand		
10				1.8		No recovery		
10		CC-2		0		Wet, dark gray, slightly gravelly SAND (SP); poorly graded medium to coarse sand, trace silt		10
10				1.2				
10				0				
15	Threaded cap			2.3				
15		UST68-MW-06-14-15		3.0				
15	Slough and bentonite			1.8		Becomes gravelly		
15		CC-3		0		Becomes trace gravel		
15				0				
15				0				
15				0				
20				0				
20						Bottom of boring at 20' BGS		20
20								
20								
25								

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MAR/AET**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 254**



# Boring Log

Project Number  
110207

Boring Number  
UST69-MW-01

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 15.16

Location: Everett, WA

Driller/Method: Cascade Drilling / Direct Push Probe

Depth to Water (ft BGS)

Sampling Method: Continuous Core

Start/Finish Date 5/25/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
15	8" Flush-mount monument and thermos cap					Asphalt		
	Concrete surface seal 0' to 2'					Post-holed to 2' for utilities		
	3/8" Hydrated bentonite chips 2' to 4'	CC-1		0		Moist, brown, slightly gravelly SAND (SP); poorly graded fine-to-medium sand, mostly medium		
	10/20 pre-pack Silica sand filter pack 4' to 15'			0				
5				0				
10		UST69-MW-1-6-7		0				
	2" Diameter PVC pre-packed .001 slot screen 5' to 15'	CC-2		0		Wet sand at 6'	Color changes to dark gray and becomes mostly fine sand at 6.5'	
10				0				
		CC-3		0		4" SILT (ML) lens from 11.75' to 12'	Wet, dark gray SAND (SP); fine sand	
				0				
				0			Medium to coarse sand 14' to 14.5'	
				0			Wood debris from 14.5' to 15'	
15	Threaded cap			0			Bottom of boring at 15' BGS	15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MAR**

No Recovery

Static Water Level

Approved by: **SJG**

Continuous Core

Water Level (ATD)

Figure No. **A- 255**



# Boring Log

Project Number  
110207

Boring Number  
UST70-B-01

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 5/31/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	Backfilled with medium bentonite chips	CC-1	UST70-B-1-3-4	25.1		Wood chips-hogged fuel		
						Moist, gray, sandy, very silty GRAVEL (GM)		
						Pea gravel		
5		CC-2	UST70-B-1-3-4	95.5		Moist, gray SAND (SP); poorly graded fine-to-medium sand, strong petroleum-like odor		5
				75.1				
				85.9				
		CC-3	UST70-B-1-13.5-14	99.7		Moist, gray, slightly silty SAND (SP-SM); poorly graded fine-to-medium sand, strong petroleum-like odor from 6' to 12'		
				100.5				
				99.5				
10				25.5		Slightly gravelly 11' to 12'		10
				25.5				
				25.5				
15				56.0				15
				6.0				
				4.5			Bottom of boring at 15' BGS	

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MAR**

No Recovery

Static Water Level

Approved by: **SJG**

Continuous Core

Water Level (ATD)

Figure No. **A- 256**







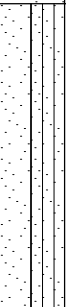

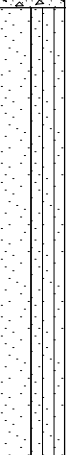
# Boring Log

Project Number  
110207

Boring Number  
UST70-B-02

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 5/31/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)			
	Backfilled with medium bentonite chips	 CC-1   CC-2  CC-3	UST70-B-1-9-10				Wood chips-hogged fuel				
				0.4				Moist, brown, slightly gravelly SAND (SP)			
				0.4				Moist, dark brown, slightly silty SAND (SP-SM)			
5				0.4				Concrete rubble			
				0.4				Wet, gray, slightly silty, gravelly SAND (SP-SM); trace coarse sand, fine-to-medium sand			
10				0.4							
				0.4							
				0.4							
				0.4							
				0.4							
				0.4							
				0.4							
15										Bottom of boring at 15' BGS	15

Sampler Type:


PID - Photoionization Detector (Headspace Measurement)

Logged by: **MAR**

 No Recovery

 Static Water Level

Approved by: **SJG**

 Continuous Core


 Water Level (ATD)

Figure No. **A- 257**





# Boring Log

Project Number  
110207

Boring Number  
UST70-B-03

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 5/31/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	Backfilled with medium bentonite chips	CC-1	UST70-B-3-8-9	1.0		Wood chips-hogged fuel	0	
0.5					Moist, brown, slightly gravelly SAND (SP); poorly graded fine-to-medium sand	0.5		
0.6				Brick rubble at 4'	0.6			
5					0.6			
5		CC-2		0		0.6		
6					0.6			
10		CC-3		0.6		Concrete rubble	10	
10					0.5		Wet, gray, slightly silty SAND (SP-SM); poorly graded fine-to-medium sand	10
15					0.5		Bottom of boring at 15' BGS	15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MAR**

No Recovery

Static Water Level

Approved by: **SJG**

Continuous Core

Water Level (ATD)

Figure No. **A- 258**



# Boring Log

Project Number  
110207

Boring Number  
UST70-B-04

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 5/31/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)								
0	Backfilled with medium bentonite chips	CC-1	UST70-B-4-0-1	245.5	15.8	[Material Type: Moist, gray, sandy, very silty GRAVEL (GM); fine subrounded gravel]	Moist, gray, sandy, very silty GRAVEL (GM); fine subrounded gravel	0								
7.8																
12.0																
12.2									UST70-B-4-4.5-5.5							
12.2																
1.0																
10.8									CC-2	Wet	1.0	1.0	[Material Type: Moist, dark gray to brown, gravelly SAND (SP); fine sand]	Moist, dark gray to brown, gravelly SAND (SP); fine sand	5	
9.8																
8.8																
10.0									CC-3	Wet, gray to brown, gravelly SAND (SW); poorly graded fine-to-coarse sand	0	0	[Material Type: Wet, gray to brown, gravelly SAND (SW); poorly graded fine-to-coarse sand]	Wet, gray to brown, gravelly SAND (SW); poorly graded fine-to-coarse sand	10	
11.0																
12.0																
15.0															Bottom of boring at 15' BGS	15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: MAR

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 259



# Boring Log

Project Number  
110207

Boring Number  
UST70-MW-01

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 14.91

Location: Everett, WA

Driller/Method: Cascade Drilling / Direct Push Probe

Depth to Water (ft BGS) \_\_\_\_\_

Sampling Method: Continuous Core

Start/Finish Date 6/5/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	8" Flush-mount monument and thermos cap					Wood chips-hogged fuel		
0 to 2'	Concrete surface seal					Moist, gray, silty, very sandy GRAVEL (GM); fine subrounded gravel		
2' to 4'	3/8" Hydrated bentonite chips	CC-1		0.8		Moist, gray SAND (SP); trace gravel, fine-to-medium sand		
4' to 15'	10/20 pre-pack Silica sand filter pack			2.5				
5				2.3				5
5 to 10'	2" Diameter PVC pre-packed .001 slot screen	CC-2		1.8				
10				3.0				
10 to 12'				4.0				
10'				1.8		Wet, gray fine sand		
10 to 15'				0.8				
10'				0.4		Medium sand 10' to 12'		10
10 to 12'				2.5				
12' to 15'		CC-3		2.5		Wet, gray SAND (SW); poorly graded fine-to-coarse sand, H2S odor		
12' to 15'				3.0		Wet, gray SAND (SP); poorly graded fine-to-medium sand		
15	Threaded cap			1.2				
15				0.8			Bottom of boring at 15' BGS	15

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **MAR**

Approved by: **SJG**

Figure No. **A- 260**



# Boring Log

Project Number  
110207

Boring Number  
UST70-MW-02

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 14.5

Location: Everett, WA

Driller/Method: Cascade Drilling / Direct Push Probe

Depth to Water (ft BGS) \_\_\_\_\_

Sampling Method: Continuous Core

Start/Finish Date 6/5/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	8" Flush-mount monument and thermos cap						Moist, dark brown, gravelly, silty SAND (SM); fine sand	
0	Concrete surface seal 0' to 2'						Concrete rubble	
0	3/8" Hydrated bentonite chips 2' to 4'	CC-1					Moist, brown, slightly silty, slightly gravelly SAND (SP); poorly graded fine-to-medium sand	
0							Iron staining at 4'	
5	10/20 pre-pack Silica sand filter pack 4' to 15'							5
0		CC-2					Moist, brown, gravelly SAND (SP); poorly graded fine-to-medium sand	
0							Wet, gray sand	
5	2" Diameter PVC pre-packed .001 slot screen 5' to 15'						1" lens of very silty sand	
0		CC-3					Wet, gray, gravelly SAND (SP); poorly graded fine-to-medium sand	10
0								
15	Threaded cap						Bottom of boring at 15' BGS	15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MAR**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 261**



# Boring Log

Project Number  
110207

Boring Number  
UST71-B-01

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 5/31/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)			
0	Backfilled with medium bentonite chips	CC-1		4.0		Wood chips-hog fuel					
1.7									Moist, gray SILT (ML)		
3.0									Moist, gray SAND (SP); fine sand 4' to 4.5', medium sand 4.5' to 15'		
5		CC-2		2.0 2.5	1.7	Silty		5			
10									UST71-B-1-12-13	1.5	1.5
15											
15		CC-3		5.0		Bottom of boring at 15' BGS		15			

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **MAR**

Approved by: **SJG**

Figure No. **A- 262**



# Boring Log

Project Number  
110207

Boring Number  
UST71-B-02

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 5/31/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	Backfilled with medium bentonite chips	CC-1				Wood chips-hogged fuel		
						Concrete rubble		
				2.5		Wood chips		
5	▼			3.2		Very moist, gray, sandy, very silty GRAVEL (GM); fine subrounded gravel		5
		CC-2		16.9		Wet, gray GRAVEL (GP); coarse subrounded gravel, petroleum-like odor		
				10.5				
				11.5		Moderate rainbow sheen		
10				15.5		Wet, dark brown to black SAND (SP); numerous organics: Wood chips		10
		CC-3	UST71-B-2-13-14	75		Heavy bleb sheen		
				85				
				75.0				
				80.0		Wet, dark gray to dark brown, silty SAND (SM); heavy sheen		
15				75.8		Bottom of boring at 15' BGS		15

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- ▼ Static Water Level
- ▽ Water Level (ATD)

Logged by: **MAR**

Approved by: **SJG**

Figure No. **A- 263**



# Boring Log

Project Number  
110207

Boring Number  
UST71-B-03

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 5/31/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	Backfilled with medium bentonite chips	CC-1				Wood chips-hogged fuel		
5		○		6.5		Moist, gray, sandy, very silty GRAVEL (GM); fine, subrounded gravel		
		CC-2		7.0		Wet, gray GRAVEL (GP)		5
		○		9.0				
		CC-3		6.0				
		○		6.0				
10				5.0				10
		CC-4		5.0				
				52.0				
				75.0				
				75.0				
15				60.0		Wood chips; heavy bleb sheen, strong petroleum-like odor		15
				50				
				53.6				
				75.3				
			UST71-B-3-18-19	89.2				
			UST71-B-3-19-20	88.5				

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- ▬ Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- ▼ Static Water Level
- ▽ Water Level (ATD)

Logged by: **MAR**

Approved by: **SJG**

Figure No. **A- 264**



# Boring Log

Project Number  
110207

Boring Number  
UST71-B-04

Sheet  
1 of 2

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 5/31/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
	Backfilled with medium bentonite chips	CC-1				Wood chips-hogged fuel		
				10.7		Moist, gray, sandy, very silty GRAVEL (GM); fine subrounded gravel, slight petroleum-like odor, moderate sheen		
				11.5				
				61.2				
				12.7				
5		CC-2		12.7		Moist, gray GRAVEL (GP); poor recovery after hitting a rock 2 separate times		5
						Wet, dark brown, very silty SAND (SM); trace gravel, fine sand, strong petroleum-like odor, heavy bleb sheen		
				66				
				84.5				
				561.5				
		CC-3 UST71-B-4-12.5-13		89.7		Wet, gray SAND (SP); trace silt, fine sand		
				101.9				
				28.5				
				47.8				
15		CC-4		27.5		Medium sand 18' to 19'		15
				31.8				
				8.8				
				21.5				
				11.8				
				15.7				

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: MAR

○ No Recovery

▼ Static Water Level

Approved by: SJG

▬ Continuous Core

▽ Water Level (ATD)

Figure No. A- 265





### Boring Log

Project Number  
110207

Boring Number  
UST71-B-04

Sheet  
2 of 2

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 5/31/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
69.0		CC-5		69.0				
90.0				90.0				
91.1				91.1				
76.8				76.8				
22.0				22.0				
7.9		CC-6	UST71-B-4-28-29	7.9			Moderate metallic sheen	
5.4				5.4				
12.9				12.9				
62.7				62.7				
25.7				25.7				
14.7				14.7				
29.5				29.5				
31.4				31.4				
19.5				19.5				
7.8				7.8				
30	Bottom of boring at 30' BGS							30

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **MAR**

Approved by: **SJG**

Figure No. **A- 265**



# Boring Log

Project Number  
110207

Boring Number  
UST71-MW-01

Sheet  
1 of 1

Project Name: Kimberly Clark

Ground Surface Elev. 14.1

Location: Everett, WA

Driller/Method: Cascade Drilling / Direct Push Probe-Limited Access

Depth to Water (ft BGS) \_\_\_\_\_

Sampling Method: Continuous Core

Start/Finish Date 5/31/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
0	8" Flush-mount monument and thermos cap						(Top 3.5 feet of Wood chips cleared away by CAT in order to set a concrete well monument)	
0 to 2'	Concrete surface seal			5.9			Moist, gray, very sandy, very silty GRAVEL (GM); fine subrounded gravel	
2 to 13'	10/20 pre-pack Silica sand filter pack	CC-1		3.1				
2 to 13'				2.3				
10				1.7				
5				3.5			Wet, gray GRAVEL (GP); coarse subrounded gravel	5
				2.7			Wet, gray, gravelly SAND (SW); poorly graded fine-to-coarse sand, moderate rainbow sheen	
	2" Diameter PVC pre-packed .001 slot screen	CC-2		5.0				
3 to 13'				31.3			Wet, black SAND (SP); poorly graded fine-to-medium sand, strong petroleum-like odor, heavy bleb sheen	
5				34.0				
				85.0				
10				85.0				
				75.0				
				115.0				
				115.0				
				120.0			Wet, dark gray, very silty SAND (SM); fine sand	
				28.5				
	Threaded cap	CC-3		16.5				
				23.3			Wet, gray SAND (SP); fine sand, trace organics	
0	Slough			28.3			Coarser sand at 14'	
15				38.0			Bottom of boring at 15' BGS	15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **MAR**

○ No Recovery

▼ Static Water Level

Approved by: **SJG**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **A- 266**



# Boring Log

Project Number  
110207

Boring Number  
WY-B-01

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 8/20/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)	
1	Backfilled with medium bentonite chips	CC-1	WY-B-01-0-1			Wet.	Moist, dark brown, slightly gravelly, organic SILT (OL).	1	
2			WY-B-01-2-3				Moist, gray, slightly gravelly SAND (SP); poorly graded fine-to-medium sand.	2	
3								3	
4				WY-B-01-3.5-4.5					4
5									5
6			CC-2						6
7									7
8									8
9									9
10							Bottom of boring at 9' BGS	10	
11								11	
12								12	
13								13	
14								14	
15								15	
16								16	
17								17	
18								18	
19								19	
20								20	
21								21	
22								22	
23								23	
24								24	
25								25	
26								26	
27								27	
28								28	
29								29	

Sampler Type:  No Recovery      PID - Photoionization Detector (Headspace Measurement)      Logged by: **AET**  
 Continuous Core      Static Water Level      Approved by: **SJG**  
 Water Level (ATD)      Figure No. **A- 267**

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014



# Boring Log

Project Number  
110207

Boring Number  
WY-B-02

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 8/20/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
1	Backfilled with medium bentonite chips	CC-1	WY-B-02-0-1.5			Moist, brown gray, sandy, silty GRAVEL (GM); crushed rock; scattered organics.	1	
2			WY-B-02-2-3				Moist, gray, slightly gravelly SAND (SP); poorly graded fine-to-medium sand.	2
3								3
4			CC-2	WY-B-02-5-6			Wet.	4
5								5
6								6
7								7
8								8
9								9
10						Bottom of boring at 9' BGS	10	
11							11	
12							12	
13							13	
14							14	
15							15	
16							16	
17							17	
18							18	
19							19	
20							20	
21							21	
22							22	
23							23	
24							24	
25							25	
26							26	
27							27	
28							28	
29							29	

Sampler Type:  No Recovery      PID - Photoionization Detector (Headspace Measurement)      Logged by: **AET**  
 Continuous Core      Static Water Level      Approved by: **SJG**  
 Water Level (ATD)      Figure No. **A- 268**

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014



# Boring Log

Project Number  
110207

Boring Number  
WY-B-03

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 8/20/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
1	Backfilled with medium bentonite chips	CC-1	WY-B-03-0-1			Moist, gray, silty SAND (SM); fine sand. Moist, gray SAND (SP); trace gravel; poorly graded fine-to-medium sand.	1	
2					2			
3				3				
4				4				
5				5				
6				6				
7			CC-2	WY-B-03-2-3				7
8							8	
9							9	
10							10	
11							11	
12							12	
13							13	
14							14	
15							15	
16							16	
17							17	
18							18	
19							19	
20							20	
21							21	
22							22	
23							23	
24							24	
25							25	
26							26	
27							27	
28							28	
29							29	

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET

No Recovery

Static Water Level

Approved by: SJG

Continuous Core

Water Level (ATD)

Figure No. A- 269



# Boring Log

Project Number  
110207

Boring Number  
WY-B-04

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 8/20/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
1	Backfilled with medium bentonite chips	CC-1	WY-B-04-2-3			Crushed rock. (FILL).		1
2						Asphalt.	2	
3		Moist, brown, sandy, very gravelly SILT (ML); frequent wood debris.	3					
4		Crushed rock.	4					
5		Moist, light gray, gravelly SAND (SP); poorly graded fine-to-medium sand.	5					
6		Slightly gravelly.	6					
7		Wet.	7					
8			8					
9			9					
10			10					
11						Bottom of boring at 10' BGS		11
12								12
13								13
14								14
15								15
16								16
17								17
18								18
19								19
20								20
21								21
22								22
23								23
24								24
25								25
26								26
27								27
28								28
29								29

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET

No Recovery

Static Water Level

Approved by: SJG

Continuous Core

Water Level (ATD)

Figure No. A- 270



# Boring Log

Project Number  
110207

Boring Number  
WY-B-05

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 8/20/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)	
1	Backfilled with medium bentonite chips	CC-1	WY-B-05-0-1			Crushed rock (FILL).	Crushed rock (FILL).	1	
2						Moist, gray SAND (SP); trace gravel; poorly graded fine-to-medium sand.		2	
3		CC-2	WY-B-05-2-3			Moist, gray, sandy, very silty GRAVEL (GM); fine said; crushed rock.		3	
4								4	
5								5	
6								6	
7			WY-B-05-6-7				Moist to wet, gray, gravelly SAND (SW); poorly graded fine-to-coarse sand.		7
8							Wet, gray SAND (SP); with scattered thin SILT (ML) beds.		8
9						Bottom of boring at 8' BGS		9	
10								10	
11								11	
12								12	
13								13	
14								14	
15								15	
16								16	
17								17	
18								18	
19								19	
20								20	
21								21	
22								22	
23								23	
24								24	
25								25	
26								26	
27								27	
28								28	
29								29	

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:

- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: AET

Approved by: SJG

Figure No. A- 271



# Boring Log

Project Number  
110207

Boring Number  
WY-B-06

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 8/20/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
1	Backfilled with medium bentonite chips	CC-1	WY-B-06-1-2			Crushed rock (FILL).		1
2			WY-B-06-2-3			Moist, dark gray, very sand GRAVEL (GP); fine sand.		2
3						Moist, gray, gravelly SAND (SP); poorly graded fine-to-medium sand.		3
4						Crushed rock.		4
5						Moist, red and brown mottled, gravelly, sandy SILT (ML).		5
6						Moist, gray, slightly gravelly SAND (SP); poorly graded fine-to-medium sand.		6
7		CC-2	WY-B-06-6.5-7.5			Moist, brown gray, slightly gravelly, sandy SILT (ML); fine sand; fine gravel.		7
8						Wet, gray SAND (SP); trace gravel; poorly graded fine-to-coarse sand, predominantly fine-to-medium.		8
9								9
10								10
11						Bottom of boring at 10' BGS		11
12								12
13								13
14								14
15								15
16								16
17								17
18								18
19								19
20								20
21								21
22								22
23								23
24								24
25								25
26								26
27								27
28								28
29								29

Sampler Type:  No Recovery       Continuous Core  
 PID - Photoionization Detector (Headspace Measurement)      Logged by: **AET**  
 Static Water Level (indicated by inverted triangle symbol)      Approved by: **SJG**  
 Water Level (ATD) (indicated by inverted triangle symbol)      Figure No. **A- 272**

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014





# Boring Log

Project Number  
110207

Boring Number  
WY-B-07

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 8/20/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)	
1	Backfilled with medium bentonite chips	CC-1	WY-B-07-0-1			Moist, gray, slightly gravelly SAND (SP); poorly graded fine-to-medium sand.		1	
2			WY-B-07-2-3					2	
3			WY-B-07-3-4						3
4								Wet, brown gray, silty SAND (SM); fine sand; numerous organics.	4
5						Sawdust.		5	
6						Bottom of boring at 5' BGS		6	
7								7	
8								8	
9								9	
10								10	
11								11	
12								12	
13								13	
14								14	
15								15	
16								16	
17								17	
18								18	
19								19	
20								20	
21								21	
22								22	
23								23	
24								24	
25								25	
26								26	
27								27	
28								28	
29								29	

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET

No Recovery

Static Water Level

Approved by: SJG

Continuous Core

Water Level (ATD)

Figure No. A- 273



## Boring Log

Project Number  
110207

Boring Number  
WY-B-08

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 8/20/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
1	 Backfilled with medium bentonite chips	 CC-1	WY-B-08-0-1				Moist, gray, trace to slightly gravelly SAND (SP); poorly graded fine-to-medium sand.	1
2			WY-B-08-1-2				Wet.	2
3			WY-B-08-2-3				1" Wood.	3
4								4
5								5
6						Bottom of boring at 5' BGS	6	
7							7	
8							8	
9							9	
10							10	
11							11	
12							12	
13							13	
14							14	
15							15	
16							16	
17							17	
18							18	
19							19	
20							20	
21							21	
22							22	
23							23	
24							24	
25							25	
26							26	
27							27	
28							28	
29							29	

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014

Sampler Type:  No Recovery       Continuous Core  
 PID - Photoionization Detector (Headspace Measurement)      Static Water Level (inverted triangle symbol)  
 Water Level (ATD) (inverted triangle symbol)  
 Logged by: **AET**  
 Approved by: **SJG**  
 Figure No. **A- 274**



### Boring Log

Project Number  
110207

Boring Number  
WY-B-09

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 8/20/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
1	Backfilled with medium bentonite chips	CC-1	WY-B-09-0-1				Moist, brown gray, organic SILT (OL) and SAND (SP) in very thin alternating layers; poorly graded fine-to-medium sand.	1
2								2
3				WY-B-09-2-3			Moist, gray, gravelly SAND (SP); poorly graded fine-to-medium sand.	3
4			CC-2					4
5				WY-B-09-4-5			Wet, gray SAND (SP) and sandy SILT (ML) in very thin alternating layers; poorly graded fine-to-medium sand.	5
6							Bottom of boring at 6' BGS	6
7								7
8								8
9								9
10								10
11								11
12								12
13								13
14								14
15								15
16								16
17								17
18								18
19								19
20								20
21								21
22								22
23								23
24								24
25								25
26								26
27								27
28								28
29								29

Sampler Type:  No Recovery      PID - Photoionization Detector (Headspace Measurement)      Logged by: **AET**  
 Continuous Core      Static Water Level      Approved by: **SJG**  
 Water Level (ATD)      Figure No. **A- 275**

ENV BORING LOG KIMBERLY CLARK-EVERETT.GPJ July 31, 2014



# Boring Log

Project Number  
110207

Boring Number  
WY-B-10

Sheet  
1 of 1

Project Name: Kimberly Clark Ground Surface Elev. \_\_\_\_\_  
 Location: Everett, WA  
 Driller/Method: Cascade Drilling / Direct Push Probe Depth to Water (ft BGS) \_\_\_\_\_  
 Sampling Method: Continuous Core Start/Finish Date 8/20/2012

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
5	 Backfilled with medium bentonite chips	CC-1	WY-B-10-0-1				Moist, gray, very sandy GRAVEL (GP); poorly graded fine-to-medium sand; crushed rock; coarse gravel.	5
							Wet, gray, slightly gravelly SAND (SP); poorly graded fine-to-medium sand; fine gravel.	
		CC-2	WY-B-10-2-3				Wood.	
							Wood.	
5							Refusal at 4.5' BGS	5
10								10
15								15
20								20
25								25

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET

No Recovery

Static Water Level

Approved by: SJG

Continuous Core

Water Level (ATD)

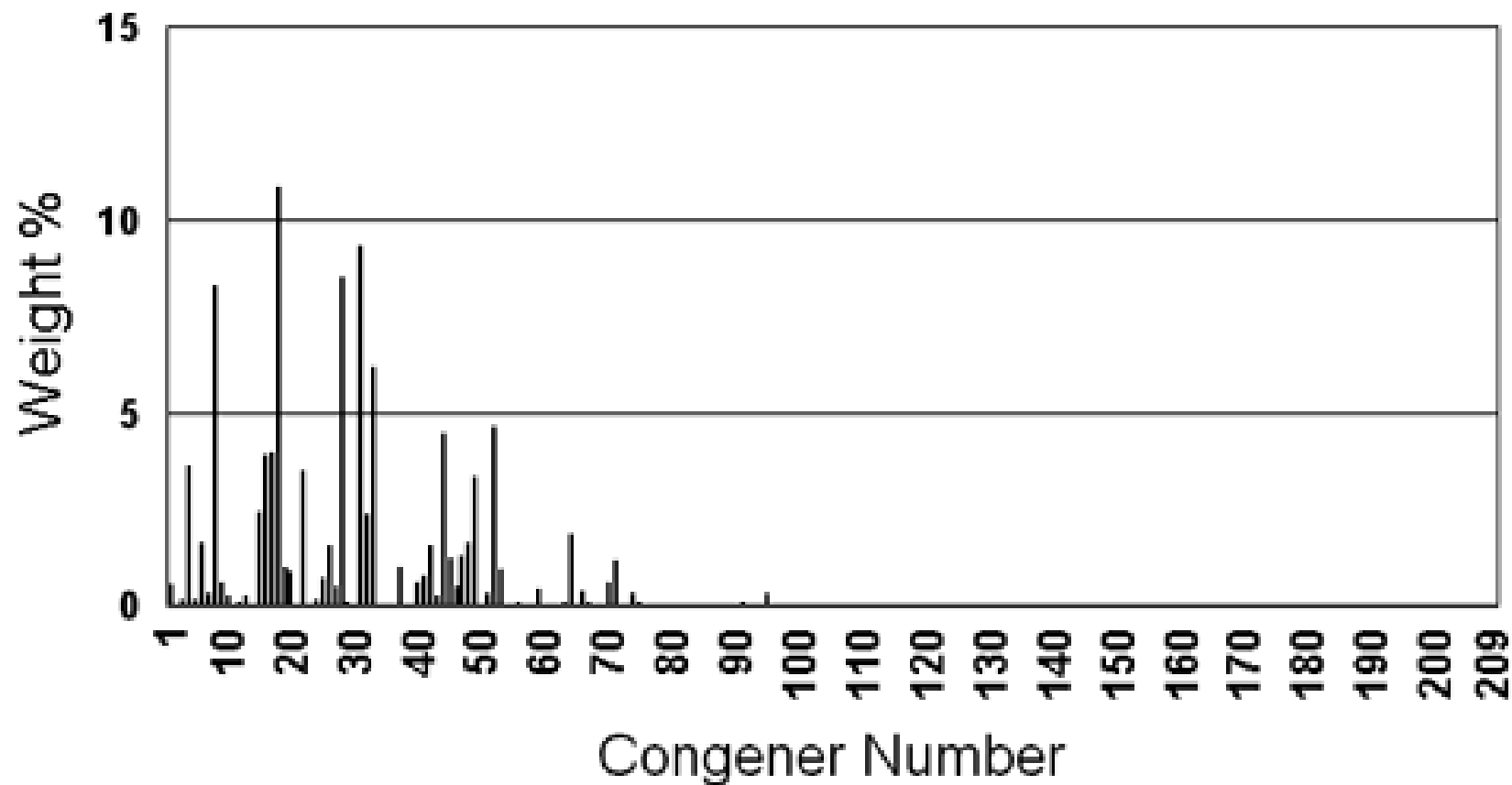
Figure No. A- 276

## **APPENDIX B**

### **PCB Congener Histograms for Common PCB Aroclors**

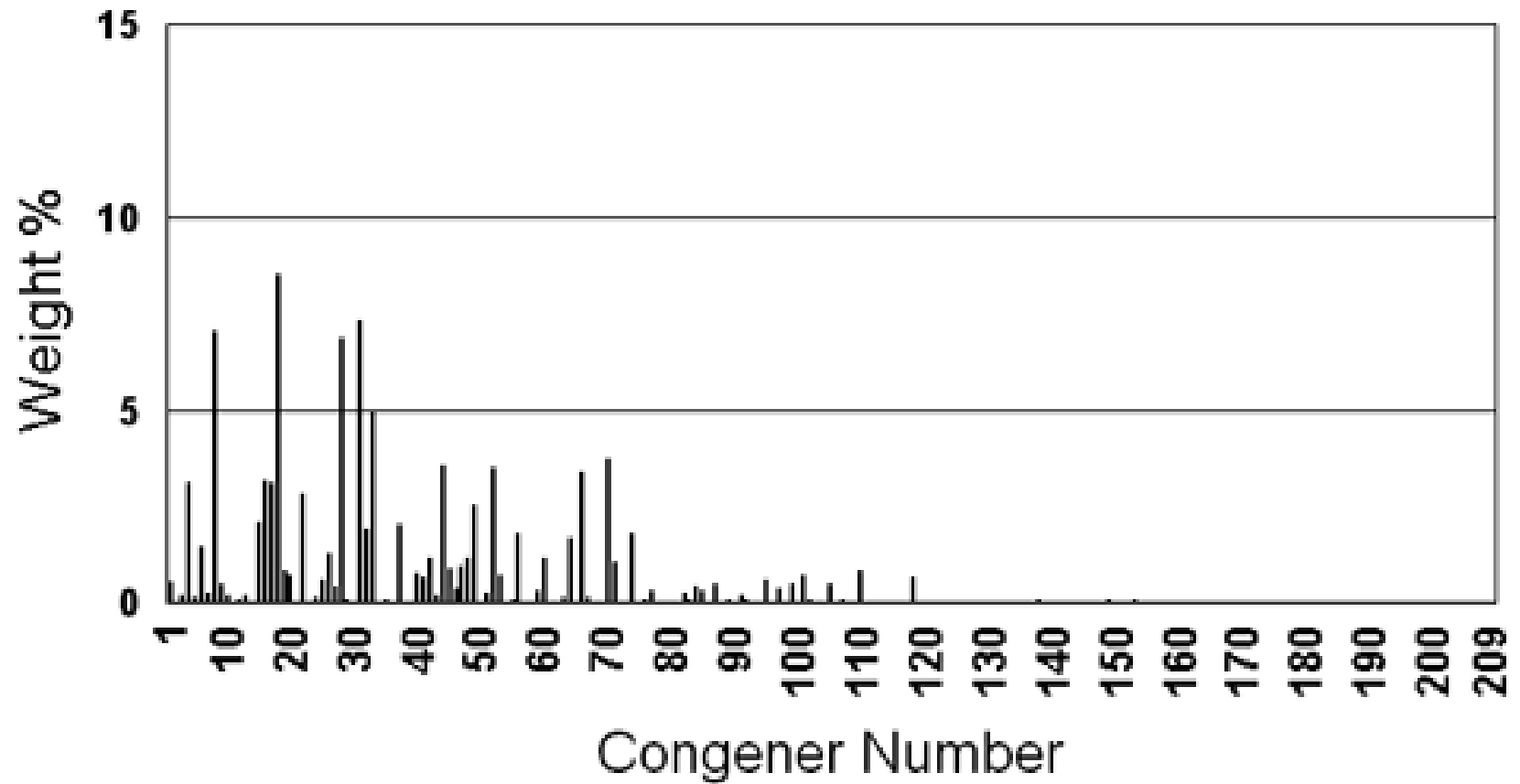
## Plots of Aroclor Composition

### Aroclor 1016

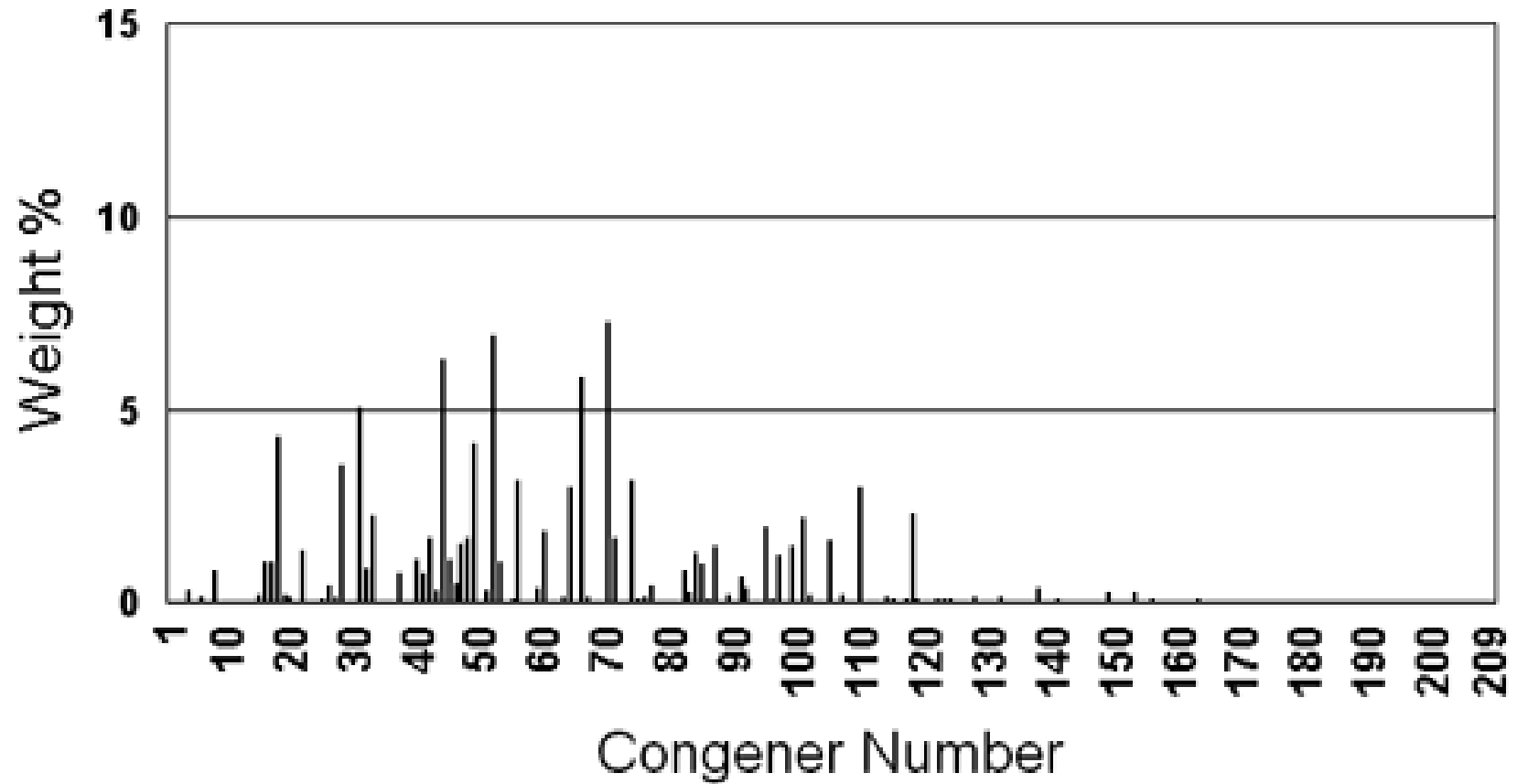


from  
<http://www.epa.gov/epawaste/hazard/tsd/pcbs/pdf/aroclorplots.pdf>

# Aroclor 1242

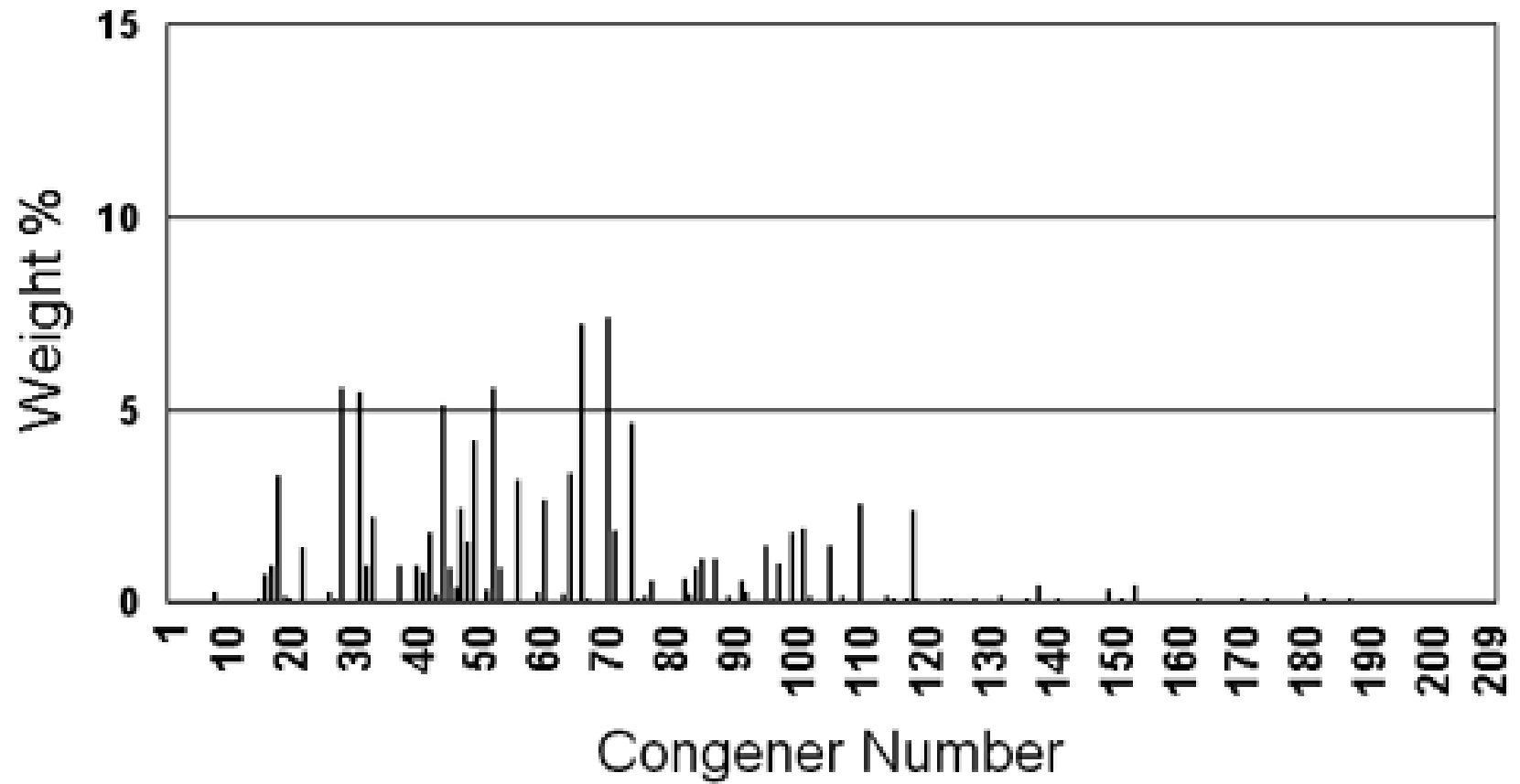


# Aroclor 1248a

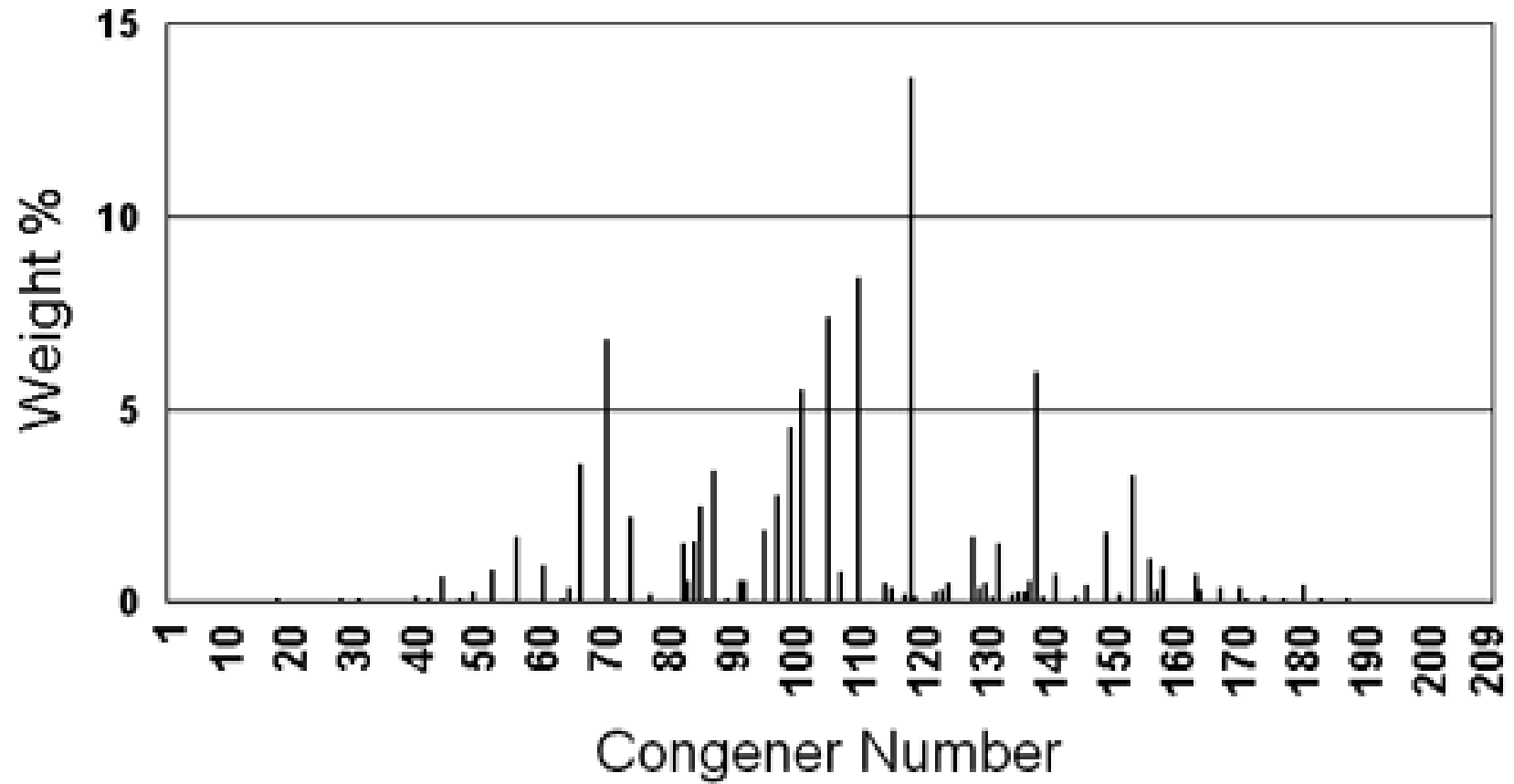




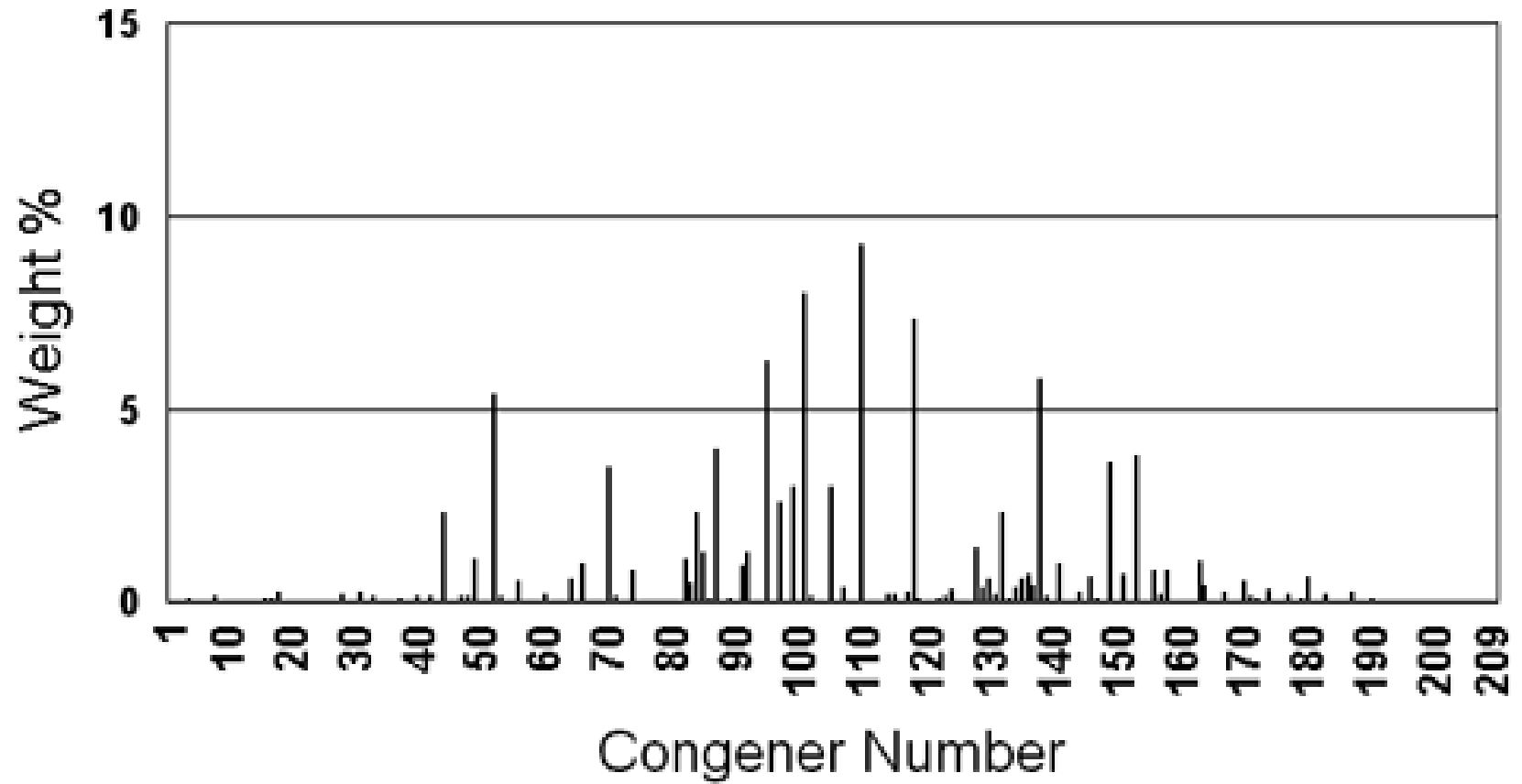
# Aroclor 1248g



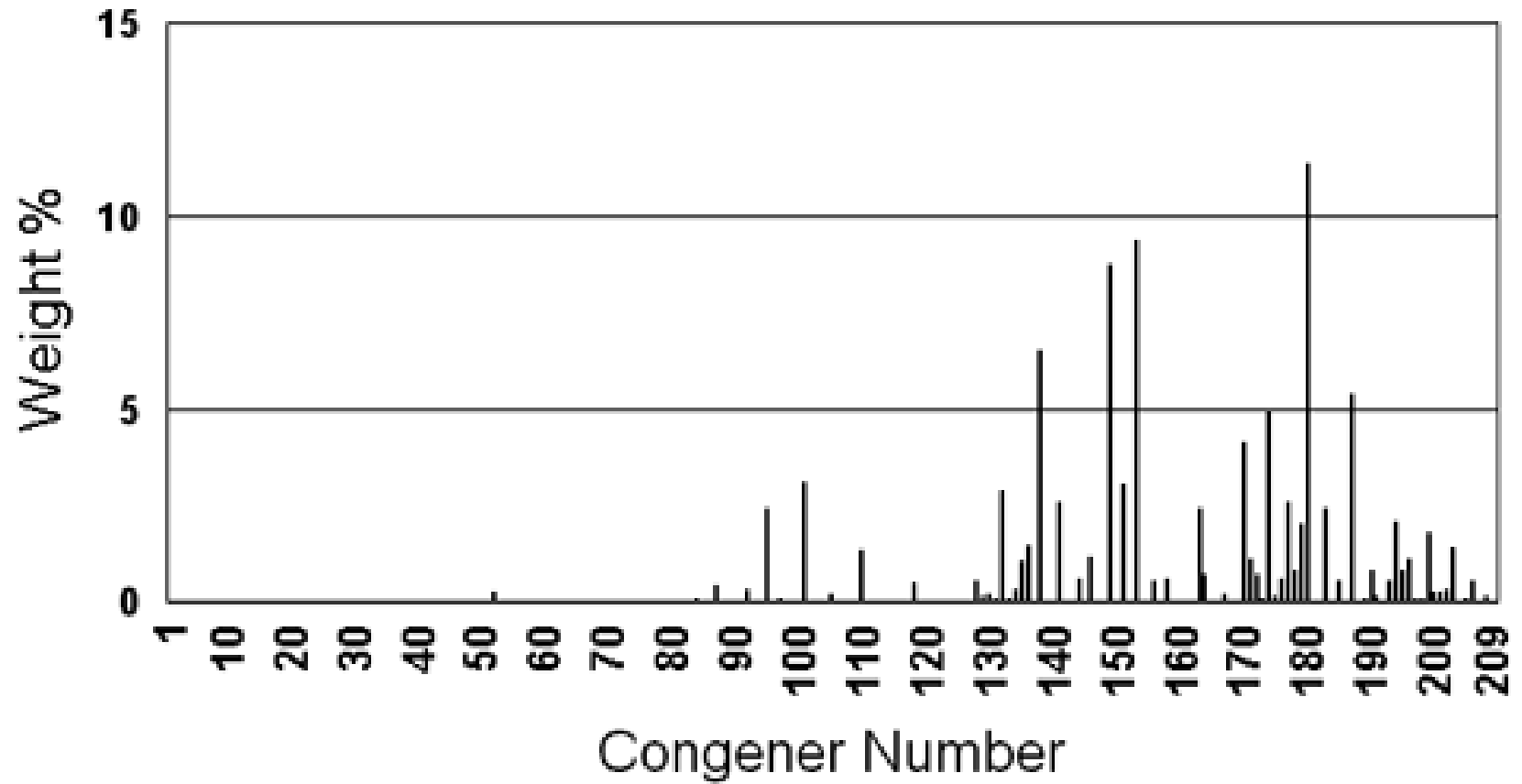
# Aroclor 1254a



# Aroclor 1254g



# Aroclor 1260



## **APPENDIX C**

### **MTCAstat Output for Metals in Recycled Material Samples**

	A	B	C	D	E	F	G	H	
1	<b>DATA</b>	<b>ID</b>	<b>MTCASat 97 Site Module</b>						
2	1.81	CONC-SP01	<b>Number of samples</b>		<b>Uncensored values</b>		<b>Paste values</b>		
3	9.53	CONC-SP02	Uncensored	49	Mean	9.247	<b>Sort data</b>		
4	1.29	CONC-SP03	Censored		Lognormal mean	9.485	<b>Calculate UCL</b>		
5	5.54	CONC-SP04	Detection limit or PQL		Std. devn.	5.171		<b>Finished</b> Exit MTCASat	
6	8.13	CONC-SP05	Method detection limit		Median	8.13	<b>Lognormal</b>		
7	6.76	CONC-SP06	TOTAL	49	Min.	1.29	<b>Normal</b>		
8	5.24	CONC-SP07	<b>ENTER DATA</b>		Max.	23	<b>Neither</b>		
9	16	RM-A4	<b>Distribution Decision</b>						
10	12	RM-A5	<b>Probability plot method</b>		W test	D'Agostino's test			
11	3.7	RM-B2-SE	Lognormal distribution?		Normal distribution?		<b>Clear messages</b>		
12	4.7	RM-B3	r-squared is: <b>0.965</b>		r-squared is: <b>0.941</b>		<b>Clear all</b>		
13	10	RM-B3-NW	<b>Recommendations:</b>						
14	4.8	RM-B3-SW	<b>Use lognormal distribution.</b>						
15	21	RM-B4	<b>Upper Confidence Limit (UCL)</b>						
16	13	RM-B5	<b>UCL (Land's method) is 11.336996514717</b>						
17	6.4	RM-B6							
18	4.5	RM-C3							
19	5.1	RM-C3-NW							
20	8.9	RM-C4							
21	14	RM-C5							
22	9.9	RM-D2-NE							
23	8.2	RM-D3							
24	16	RM-D4							
25	7.6	RM-D5							
26	4.8	RM-E1-NE							
27	2.4	RM-E1-SE							
28	11	RM-E2							
29	6.1	RM-E2-NW							
30	18	RM-E3							
31	12	RM-E4							
32	16	RM-E5							
33	3.3	RM-F2							
34	15	RM-F3							
35	9.1	RM-F4							
36	11	RM-F5							
37	4.1	RM-G2							
38	6	RM-G3							
39	23	RM-G4							
40	7.3	RM-G5							
41	5.1	RM-H2							
42	6	RM-H3							
43	8.3	RM-H4							
44	4.6	RM-H5							
45	16	RM-I2-NW							
46	15	RM-I2-SE							
47	7.6	RM-I3							
48	6.3	RM-I4							
49	15	RM-I5							
50	16	RM-J3-NW							

**Paste values**

**Sort data**

**Calculate UCL**

**Lognormal**

**Normal**

**Neither**

**Clear messages**

**Clear all**

**Histogram**

5 10 20

**Create report**

**Sample size**

**Finished**  
Exit  
MTCASat

	A	B	C	D	E	F	G	H
1	<b>DATA</b>	<b>ID</b>	<b>MTCASat 97 Site Module</b>					
2	0.5	CONC-SP03	<b>Number of samples</b>		<b>Uncensored values</b>		<b>Paste values</b>	
3	2.51	CONC-SP01	Uncensored	49	Mean	14.176	<b>Sort data</b>	
4	5.4	RM-B3	Censored		Lognormal mean	15.228	<b>Calculate UCL</b>	
5	5.5	RM-C3	Detection limit or PQL		Std. devn.	7.319		<b>Finished</b> Exit MTCASat
6	5.9	RM-F2	Method detection limit		Median	13	<b>Lognormal</b>	
7	6.4	RM-E1-SE	TOTAL	49	Min.	0.5	<b>Normal</b>	
8	6.4	RM-H5	<b>ENTER DATA</b>		Max.	31	<b>Neither</b>	
9	7.3	RM-B2-SE	<b>Distribution Decision</b>					
10	8.13	CONC-SP07	<b>Probability plot method</b>		W test	D'Agostino's test		
11	8.2	RM-B6	Lognormal distribution?		Normal distribution?		<b>Clear messages</b>	
12	8.5	RM-H2	r-squared is: <b>0.832</b>		r-squared is: <b>0.961</b>		<b>Clear all</b>	
13	8.8	RM-B3-SW	<b>Recommendations:</b>				<b>Histogram</b>	
14	8.8	RM-C3-NW	<b>Use normal distribution.</b>				5 10 20	
15	9.3	RM-D5					<b>Create report</b>	
16	9.3	RM-G2					<b>Sample size</b>	
17	9.49	CONC-SP04	<b>Upper Confidence Limit (UCL)</b>					
18	9.7	RM-G3	<b>UCL (based on t-statistic) is 15.931514676465</b>					
19	9.8	RM-H3						
20	11	RM-D3						
21	11	RM-E1-NE						
22	11	RM-E2-NW						
23	11	RM-I4						
24	12	RM-F4						
25	12	RM-I2-NW						
26	13	RM-G5						
27	13.4	CONC-SP06						
28	14	RM-C4						
29	14	RM-F5						
30	14	RM-H4						
31	14.3	CONC-SP05						
32	15	RM-I3						
33	16	CONC-SP02						
34	16	RM-D2-NE						
35	16	RM-E2						
36	17	RM-E4						
37	17	RM-J3-NW						
38	19	RM-B3-NW						
39	21	RM-B5						
40	21	RM-F3						
41	22	RM-D4						
42	22	RM-E3						
43	23	RM-A5						
44	23	RM-E5						
45	25	RM-C5						
46	26	RM-A4						
47	27	RM-I2-SE						
48	28	RM-I5						
49	29	RM-B4						
50	31	RM-G4						

	A	B	C	D	E	F	G	H
1	<b>DATA</b>	<b>ID</b>	<b>MTCASat 97 Site Module</b>					
2	61	RM-I5	<b>Number of samples</b>		<b>Uncensored values</b>		<b>Paste values</b>	
3	39	RM-B5	Uncensored	49	Mean	19.173	<b>Sort data</b>	
4	36	RM-J3-NW	Censored		Lognormal mean	19.919	<b>Calculate UCL</b>	
5	33	RM-G4	Detection limit or PQL		Std. devn.	9.455		<b>Finished</b> Exit MTCASat
6	29	RM-E3	Method detection limit		Median	19	<b>Lognormal</b>	
7	28	RM-A4	TOTAL	49	Min.	1.4	<b>Normal</b>	
8	24	RM-B4	<b>ENTER DATA</b>		Max.	61	<b>Neither</b>	
9	24	RM-D4						
10	24	RM-I2-SE	<b>Distribution Decision</b>					
11	23	RM-E2-NW	<b>Probability plot method</b>		W test	D'Agostino's test		
12	23	RM-I2-NW	Lognormal distribution?		Normal distribution?		<b>Clear messages</b>	
13	22	RM-A5	r-squared is: <b>0.816</b>		r-squared is: <b>0.836</b>		<b>Clear all</b>	
14	22	RM-E5	<b>Recommendations:</b>					
15	22	RM-G5	Reject BOTH lognormal and normal distributions. See Statistics Guidance.					
16	21	RM-C5						
17	21	RM-F3						
18	21	RM-I3						
19	20	RM-F5						
20	20	RM-G2						
21	20	RM-G3	<b>Upper Confidence Limit (UCL)</b>				<b>Histogram</b>	
22	20	RM-I4					5 10 20	
23	19	RM-B2-SE					<b>Create report</b>	
24	19	RM-B3-NW					<b>Sample size</b>	
25	19	RM-D2-NE						
26	19	RM-E1-NE						
27	19	RM-E4	<b>UCL (based on Z-statistic) is 21.395</b>					
28	18	RM-E2						
29	17.8	CONC-SP02						
30	17	RM-C3-NW						
31	17	RM-D3						
32	17	RM-H4						
33	15	RM-B3-SW						
34	15	RM-E1-SE						
35	15	RM-F2						
36	15	RM-F4						
37	14	RM-B3	Note: Eliminating the 61 mg/kg sample, the data set conform to Normal distribution (R2 = 0.959). UCL for that distribution = 20.1 mg/kg					
38	14	RM-B6						
39	13	RM-H5						
40	12.4	CONC-SP05						
41	12	RM-C4						
42	12	RM-D5						
43	12	RM-H3						
44	11.5	CONC-SP06						
45	11	RM-H2						
46	10.1	CONC-SP04						
47	10	RM-C3						
48	7.96	CONC-SP07						
49	3.33	CONC-SP01						
50	1.4	CONC-SP03						
51								



1	A	B	C	D	E	F	G	H	
2	2.62	CONC-SP01	<b>MTCASat 97 Site Module</b>					Paste values	
3	7.87	CONC-SP02	<b>Number of samples</b>		<b>Uncensored values</b>			Sort data	
4	4.19	CONC-SP03	Uncensored	49	Mean	28.310		Calculate UCL	
5	49.3	CONC-SP04	Censored		Lognormal mean	29.792			<b>Finished</b> Exit MTCASat
6	2.62	CONC-SP05	Detection limit or PQL		Std. devn.	20.755			
7	41.8	CONC-SP06	Method detection limit		Median	22			
8	4.27	CONC-SP07	TOTAL	49	Min.	2.62			
9	27	RM-A4	<b>ENTER DATA</b>		Max.	95			
10	19	RM-A5	<b>Distribution Decision</b>						
11	39	RM-B2-SE	<b>Probability plot method</b>		W test	D'Agostino's test			
12	15	RM-B3	Lognormal distribution?		Normal distribution?				
13	15	RM-B3-NW	r-squared is: <b>0.949</b>		r-squared is: <b>0.860</b>				
14	12	RM-B3-SW	<b>Recommendations:</b>						
15	19	RM-B4	<b>Use lognormal distribution.</b>						
16	12	RM-B5							
17	21	RM-B6							
18	15	RM-C3							
19	25	RM-C3-NW							
20	9.5	RM-C4							
21	22	RM-C5	<b>Upper Confidence Limit (UCL)</b>						
22	13	RM-D2-NE	UCL (Land's method) is 38.0447627944063						
23	23	RM-D3							
24	21	RM-D4							
25	17	RM-D5							
26	62	RM-E1-NE							
27	39	RM-E1-SE							
28	20	RM-E2							
29	27	RM-E2-NW							
30	28	RM-E3							
31	30	RM-E4							
32	39	RM-E5							
33	17	RM-F2							
34	23	RM-F3							
35	22	RM-F4							
36	33	RM-F5							
37	44	RM-G2							
38	23	RM-G3							
39	28	RM-G4							
40	60	RM-G5							
41	13	RM-H2							
42	12	RM-H3							
43	44	RM-H4							
44	64	RM-H5							
45	22	RM-I2-NW							
46	20	RM-I2-SE							
47	71	RM-I3							
48	88	RM-I4							
49	95	RM-I5							
50	26	RM-J3-NW							

Paste values

Sort data

Calculate UCL

Lognormal

Normal

Neither

---

Clear messages

Clear all

Histogram

5 10 20

Create report

Sample size

	A	B	C	D	E	F	G	H	
1	<b>DATA</b>	<b>ID</b>	<b>MTCASat 97 Site Module</b>						
2	0.066	RM-A4	<b>Number of samples</b>		<b>Uncensored values</b>		<b>Paste values</b>		
3	0.068	RM-A5	Uncensored	32	Mean	0.099	<b>Sort data</b>		
4	0.075	RM-B2-SE	Censored	17	Lognormal mean	0.097	<b>Calculate UCL</b>		
5	0.061	RM-B3	Detection limit or PQL	0.05	Std. devn.	0.060	<b>Lognormal</b>	<b>Finished</b> Exit MTCASat	
6	0.071	RM-B6	Method detection limit		Median	0.076	<b>Normal</b>		
7	0.068	RM-D3	TOTAL	49	Min.	0.06	<b>Neither</b>		
8	0.062	RM-D4	<b>ENTER DATA</b>		Max.	0.36			
9	0.072	RM-D5	<b>Distribution Decision</b>						
10	0.21	RM-E1-NE	<b>Probability plot method</b>		W test	D'Agostino's test			
11	0.15	RM-E1-SE							
12	0.068	RM-E2	Lognormal distribution?		Normal distribution?		<b>Clear messages</b>		
13	0.12	RM-E2-NW	r-squared is: 0.924		r-squared is: 0.736		<b>Clear all</b>		
14	0.071	RM-E3	<b>Recommendations:</b>						
15	0.084	RM-E4	<b>Use lognormal distribution.</b>						
16	0.088	RM-E5							
17	0.077	RM-F2							
18	0.069	RM-F3							
19	0.061	RM-F4							
20	0.082	RM-F5							
21	0.18	RM-G2	<b>Upper Confidence Limit (UCL)</b>						
22	0.064	RM-G3							
23	0.086	RM-G4							
24	0.12	RM-G5	<b>UCL (Land's method) is 0.0902592117025311</b>						
25	0.06	RM-H2	<b>Cohen's method applied.</b>						
26	0.1	RM-H4							
27	0.1	RM-H5							
28	0.07	RM-I2-NW							
29	0.074	RM-I2-SE							
30	0.096	RM-I3							
31	0.14	RM-I4							
32	0.36	RM-I5							
33	0.09	RM-J3-NW							
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									
46									
47									
48									
49									
50									

**Paste values**

**Sort data**

**Calculate UCL**

**Lognormal**

**Normal**

**Neither**

**Clear messages**

**Clear all**

**Histogram**

5 10 20

**Create report**

**Sample size**

**Finished**  
Exit  
MTCASat

1	A	B	C	D	E	F	G	H	
2	DATA	ID	<b>MTCASat 97 Site Module</b>				Paste values		
3	11.6	CONC-SP01	<b>Number of samples</b>		<b>Uncensored values</b>		Sort data		
4	58.4	CONC-SP02	Censored	49	Mean	94.099	Calculate UCL		
5	4.86	CONC-SP03	Censored		Lognormal mean	98.845	<b>Finished</b> Exit MTCASat		
6	29.2	CONC-SP04	Detection limit or PQL		Std. devn.	62.029			
7	43.2	CONC-SP05	Method detection limit		Median	88			
8	42.5	CONC-SP06	TOTAL	49	Min.	4.86			
9	31.1	CONC-SP07	<b>ENTER DATA</b>		Max.	430	Lognormal		
10	130	RM-A4	<b>Distribution Decision</b>						Normal
11	91	RM-A5	<b>Probability plot method</b>		W test	D'Agostino's test	Neither		
12	82	RM-B2-SE	Lognormal distribution?		Normal distribution?		Clear messages Clear all		
13	81	RM-B3	r-squared is: <b>0.825</b>		r-squared is: <b>0.677</b>				
14	81	RM-B3-NW	<b>Recommendations:</b>						
15	74	RM-B3-SW	Reject BOTH lognormal and normal distributions. See Statistics Guidance.						Histogram 5 10 20 Create report Sample size
16	49	RM-B4	<b>Upper Confidence Limit (UCL)</b>						
17	110	RM-B5							
18	100	RM-B6							
19	130	RM-C3							
20	60	RM-C3-NW							
21	90	RM-C4							
22	52	RM-C5							
23	86	RM-D2-NE							
24	87	RM-D3							
25	110	RM-D4							
26	130	RM-D5							
27	67	RM-E1-NE							
28	430	RM-E1-SE	<b>UCL (based on Z-statistic) is 108.676</b>						
29	88	RM-E2							
30	110	RM-E2-NW							
31	140	RM-E3							
32	100	RM-E4							
33	110	RM-E5							
34	45	RM-F2							
35	120	RM-F3							
36	76	RM-F4							
37	98	RM-F5							
38	130	RM-G2							
39	84	RM-G3							
40	140	RM-G4							
41	130	RM-G5							
42	64	RM-H2							
43	54	RM-H3							
44	91	RM-H4							
45	63	RM-H5							
46	74	RM-I2-NW							
47	99	RM-I2-SE							
48	120	RM-I3							
49	91	RM-I4							
50	220	RM-I5							
51	97	RM-J3-NW							